From: OST05 Hoc
Sent: Monday, March 21, 2011 3:06 PM
To: Easson, Stuart
Subject: NSIR

http://148.184.213.252/nsir/dpr/IR-Procedures/index.aspx

PPP/351

From: OST05 Hoc
Sent: Monday, March 21, 2011 9:25 AM
To: Mroz (Sahm), Sara
Subject: FW: Earthquake-Tsunami Update
Attachments: USNRC Earthquake-Tsunami Update - 1800 EDT (March 18, 2011)

Sara,

Can the Earthquake-Tsunami Updates be shared with the Air Force?

Thanks,
Cindy Flannery
State Liaison – Liaison Team
NRC Incident Response Center

From: Browder, Rachel
Sent: Monday, March 21, 2011 9:16 AM
To: OST05 Hoc; LIA04 Hoc
Subject: RE:

Is the Dept of the Air Force considered a part of the "federal family"? The Air Force has requested more information so that they communicate in more detailed with their bases in Japan.
Thank you,
Rachel

From: OST05 Hoc
Sent: Monday, March 21, 2011 6:42 AM
To: LIA04 Hoc; Barker, Allan; Browder, Rachel; Erickson, Randy; Logaras, Harral; Maier, Bill; McNamara, Nancy; Tifft, Doug; Trojanowski, Robert; Woodruff, Gena; Easson, Stuart; Flannery, Cindy; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta; Collins, Elmo; Dean, Bill; Heck, Jared; McCree, Victor; Pederson, Cynthia; Satorius, Mark
Cc: Piccone, Josephine; Jackson, Deborah
Subject:

All,

I am forwarding the status updates from over the weekend from the NRC's Emergency Operations Center regarding the impacts of the earthquake/tsunami.

Please note that this information is "Official Use Only" and is only being shared within the federal family.

Thanks,
Cindy Flannery
State Liaison – Liaison Team
NRC Incident Response Center

PPP\352

From: OST05 Hoc
Sent: Monday, March 21, 2011 10:15 AM
To: Browder, Rachel
Subject: RE:

I'm looking into this...I'll get back to you with an answer.

Thanks,
Cindy Flannery
State Liaison – Liaison Team
NRC Incident Response Center

From: Browder, Rachel
Sent: Monday, March 21, 2011 9:16 AM
To: OST05 Hoc; LIA04 Hoc
Subject: RE:

Is the Dept of the Air Force considered a part of the "federal family"? The Air Force has requested more information so that they communicate in more detailed with their bases in Japan.
Thank you,
Rachel

From: OST05 Hoc
Sent: Monday, March 21, 2011 6:42 AM
To: LIA04 Hoc; Barker, Allan; Browder, Rachel; Erickson, Randy; Logaras, Harral; Maier, Bill; McNamara, Nancy; Tifft, Doug; Trojanowski, Robert; Woodruff, Gena; Easson, Stuart; Flannery, Cindy; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta; Collins, Elmo; Dean, Bill; Heck, Jared; McCree, Victor; Pederson, Cynthia; Satorius, Mark
Cc: Piccone, Josephine; Jackson, Deborah
Subject:

All,

I am forwarding the status updates from over the weekend from the NRC's Emergency Operations Center regarding the impacts of the earthquake/tsunami.

Please note that this information is "Official Use Only" and is only being shared within the federal family.

Thanks,
Cindy Flannery
State Liaison – Liaison Team
NRC Incident Response Center

PPP/353

From: Lukes, Kim
Sent: Monday, March 21, 2011 9:53 AM
To: OST05 Hoc
Subject: Out of Office: SITREP: MARCH 20 (1600 EDT)

This is an automatic reply. I will be out of the office on March 21 and return on March 22.

If you have any questions or concerns that need immediate attention, please contact my branch chief, Adelaide Giantelli, at 301-415-3521 or at Adelaide.Giantelli@nrc.gov.

Thank you!

PPP/354

From: LIA07 Hoc
Sent: Monday, March 21, 2011 10:03 AM
To: OST04 Hoc
Subject: FW: Japan EQ Press Guidance - 03.21.11
Attachments: 110321 0930 EDT Japan EQ Talking Points.doc

Save it in external guidance. Thanks.

From: RMTPACTSU_ELNRC [mailto:RMTPACTSU_ELNRC@ofda.gov]
Sent: Monday, March 21, 2011 9:59 AM
To: LIA11 Hoc; LIA01 Hoc; LIA02 Hoc; LIA07 Hoc; LIA08 Hoc; LIA12 Hoc; LIA04 Hoc; Harrington, Holly; Burnell, Scott; McIntyre, David; ET07 Hoc
Subject: FYI: Japan EQ Press Guidance - 03.21.11

Subject: Japan EQ Press Guidance - 03.21.11

Dear all,

Please find attached the updated USAID/OFDA Japan press talking points for March 21, 2011.

Best,
Helen

Helen Ho, Lily Frey, and Patricia Shea
Information Coordinators
Pacific Tsunami and Japan Earthquake Response Management Team
RMTPACTSU_INC@ofda.gov
202-712-0039

PPP/355

USG Talking Points
Humanitarian Response to Japan Quake

Updated 3/21/2011 @ 0930 EDT

The Government of Japan (GoJ) National Police Agency reported 8,649 deaths, 13,262 persons missing, and 2,644 people injured due to the earthquake and tsunami as of 0500 hours EDT, or 1800 hours Japan Standard Time (JST), on March 21. In addition, the natural disasters damaged or destroyed more than 127,000 buildings and 1,700 roads.

At 0255 hours EDT on March 21, facility operators evacuated workers from the Daiichi facility as gray smoke rose from Unit 3. Initial GoJ reports state that higher levels of radiation were not detected following the smoke incident. At present, the U.S. Department of Energy and the Nuclear Regulatory Commission report no increases in radiation levels in Tokyo. Efforts to mitigate radiation exposure are ongoing.

USG ASSISTANCE

The U.S. Agency for International Development (USAID) is working with agencies across the U.S. Government—including the Nuclear Regulatory Commission and the Departments of State, Defense, and Energy—to provide necessary assistance to the Government of Japan following the earthquake and tsunami.

In coordination with the U.S. Embassy in Tokyo, the USAID Disaster Assistance Response Team (DART) in Japan engages at three levels to determine potential humanitarian needs in Japan—nationally through Japan's Ministry of Foreign Affairs and other GoJ contacts, locally at the prefecture level and in coordination with U.S. Forces-Japan, and through Japanese civil society organizations.

Assessments from the U.S. disaster assistance response team in hard-hit Miyagi Prefecture indicate that assistance is flowing in an organized manner from the national level to the evacuation center level. The Japanese Government is responding robustly to humanitarian needs and addressing fuel shortages that were hampering aid deliveries. The DART reports that sufficient relief commodities are available in-country and the GoJ has not requested in-kind contributions.

Nuclear specialists on the DART—including 11 NRC officers, 1 DoE officer, and 1 HHS officer—are monitoring technical aspects of the nuclear issues at the Fukushima Daiichi nuclear power plant, coordinating with Japanese Government

officials to evaluate possible health impacts of radiation, and providing expert guidance to the U.S. Embassy in Tokyo and the GoJ on efforts to cool reactors.

USAID's urban search and rescue teams from Fairfax County, Virginia, and Los Angeles County, California—comprising 144 personnel and 12 live search canines—returned to the U.S. on March 19 and 20. The teams had completed all GoJ-assigned missions after nearly a week of operations in Iwate Prefecture, with no live rescues.

On March 20, USAID/OFDA Director Mark Bartolini arrived in Tokyo for a three-day visit to meet with staff from the U.S. Embassy, U.S. Department of Defense (DoD), U.N. agencies, and non-governmental organizations, as well as travel to tsunami-affected areas with the Disaster Assistance Response Team (DART).

On March 21, northeastern Japan experienced rain and decreased temperatures, resulting in unfavorable conditions in evacuation centers and delaying GoJ Prime Minister Naoto Kan's visit to affected areas. The Japan Meteorological Agency reported that northeastern Japan is expected to experience low to freezing temperatures from March 22 and 25. According to DART staff, evacuation center managers in the areas visited reported a surplus of blankets to help evacuees manage cold weather conditions.

For individuals and businesses who wish to help those in Japan, we encourage making a cash donation to a reputable organization working in the affected area. Nothing will get there faster or help more at this time. Visit www.usaid.gov for more info or email japanhelp@ofda.gov.

From: Batkin, Joshua
Sent: Monday, March 21, 2011 9:09 AM
To: ET07 Hoc; Weber, Michael; HOO Hoc; Pace, Patti
Cc: Masse, Todd
Subject: Re: 0930 Call

Gracias

Joshua C. Batkin
Chief of Staff
Chairman Gregory B. Jaczko
(301) 415-1820

From: ET07 Hoc
To: Batkin, Joshua; Weber, Michael; HOO Hoc; Pace, Patti
Cc: Masse, Todd
Sent: Mon Mar 21 09:03:31 2011
Subject: RE: 0930 Call

Done. Location: One White Flint SCIF

From: Batkin, Joshua
Sent: Monday, March 21, 2011 9:02 AM
To: ET07 Hoc; Weber, Michael; HOO Hoc; Pace, Patti
Subject: Re: 0930 Call

No, it needs to be in OWFN in case we need to pull the Chairman out of the Commission meeting real quick. Please confirm.

Joshua C. Batkin
Chief of Staff
Chairman Gregory B. Jaczko
(301) 415-1820

From: ET07 Hoc
To: Batkin, Joshua
Sent: Mon Mar 21 08:58:37 2011
Subject: 0930 Call

Josh,

The 0930 call will be in the TWO White Flint SCIF.

Thanks, Craig

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From: ET07 Hoc
Sent: Monday, March 21, 2011 9:08 AM
To: Bazian, Samuel
Subject: RE: 0930 Call

Thanks Sam

From: Bazian, Samuel
Sent: Monday, March 21, 2011 9:08 AM
To: ET07 Hoc
Subject: RE: 0930 Call

No problem. We are all set here in the OWFN SCIF.

From: ET07 Hoc
Sent: Monday, March 21, 2011 9:06 AM
To: Bazian, Samuel
Subject: FW: 0930 Call
Importance: High

This is the 0930 call we discussed. Just let me know that you are set. Sorry for the late change.

Craig

From: ET07 Hoc
Sent: Monday, March 21, 2011 9:04 AM
To: Batkin, Joshua; Weber, Michael; HOO Hoc; Pace, Patti
Cc: Masse, Todd
Subject: RE: 0930 Call

Done. Location: One White Flint SCIF

From: Batkin, Joshua
Sent: Monday, March 21, 2011 9:02 AM
To: ET07 Hoc; Weber, Michael; HOO Hoc; Pace, Patti
Subject: Re: 0930 Call

No, it needs to be in OWFN in case we need to pull the Chairman out of the Commission meeting real quick. Please confirm.

Joshua C. Batkin
Chief of Staff
Chairman Gregory B. Jaczko
(301) 415-1820

From: ET07 Hoc
To: Batkin, Joshua
Sent: Mon Mar 21 08:58:37 2011
Subject: 0930 Call

PPP\357

Josh,

The 0930 call will be in the TWO White Flint SCIF.

Thanks, Craig

Recipient	Delivery	Read
Batkin, Joshua	Delivered: 3/21/2011 8:59 AM	Read: 3/21/2011 9:02 AM

From: Hoc, PMT12
Sent: Monday, March 21, 2011 8:12 AM
To: Snodderly, Michael
Cc: Carpenter, Cynthia; PMT03 Hoc
Subject: I-131 readings from SONGS

Hello. I checked the PMT Chronology and I was able to find 4 data points of I-131, as reported by SONGS. Samples are one-hour counts of a 24-hour sample. Lower limit of detection is 2e-13 uCi/cc. The only way to get more info than is what is in the chronology is to call the site. If you have follow-up questions either email or call the PMT through the HOO. 301-816-5100.

- 3/20/11: 1.85E-12 – 2.0 E-12 uCi/cc
- 3/19/11: 6.5E-13 – 7e-13 uCi/cc
- 3/18/11: 1.79E-13 uCi/cc
- 3/18/11: 1.4E-13uCi/cc

APP/358

From: LIA05 Hoc
Sent: Monday, March 21, 2011 10:39 AM
To: Hoc, PMT12
Subject: RE:

You are Welcome!

Bonnie Sheffield Dayshift 0700-1500
Ken Wierman Nightshift 1500-2300
FEMA REP Liaison
NRC Operations Center
(301) 816-5187

********FOR OFFICIAL USE ONLY********
DO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY

From: Hoc, PMT12
Sent: Monday, March 21, 2011 10:38 AM
To: LIA05 Hoc
Subject: RE:

Thanks!!

From: LIA05 Hoc
Sent: Monday, March 21, 2011 10:38 AM
To: Hoc, PMT12
Subject:

Per your request

Bonnie Sheffield Dayshift 0700-1500
Ken Wierman Nightshift 1500-2300
FEMA REP Liaison
NRC Operations Center
(301) 816-5187

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DO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY

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From: LIA02 Hoc
Sent: Monday, March 21, 2011 2:09 PM
To: LIA03 Hoc
Subject: FW: TRANSITION REPORT 3/21 1500

From: LIA02 Hoc
Sent: Monday, March 21, 2011 2:04 PM
To: Fragoyannis, Nancy
Subject: TRANSITION REPORT 3/21 1500

~~OFFICIAL USE ONLY~~

TRANSITION REPORT FOR MARCH 21, 2011 1500
Charlotte/Nancy and Jen S. transition to Danielle and Lauren

UPDATES DURING THIS SHIFT

[redacted]

- At 1840 on March 20, Nancy Fragoyannis spoke to Nader concerning who has responsibility for making travel arrangements/passport information for the next NRC travelers to Japan. **The 0700-1500 shift should contact Nader (on Monday, March 21) regarding the process for arranging travel for the next NRC travelers. Please respond back to all travelers with this information.**
- **Need to contact Steve Dembek 3/21 regarding expediting passport for Jack Giessner (Region III).** He has an expired passport. He needs to know if he needs to come to DC prior to departure for Japan to obtain a current passport.
- LIA07 added new team members to the "Liaison Japan" group email distribution group. Team members were notified as well. No further action required.

[redacted]

- **France** - At the request of the PMT, at 1538 on March 20, Eric Stahl sent email to IRSN (France TSO - ctc@irsn.fr) about releasing the results of the French simulation on possible source term and plume models to NRC. French requested a call at 1000 on March 21 to discuss. Jen Schwartzman and Michelle Hart of PMT participated in the call, which provided a good opportunity for PMT to ask clarifying questions of IRSN regarding the source term data IRSN has provided to us. Daniele Oudinot and Victor Hall are translating the 7-page source term document that was provided. Action: When either Daniele or Victor provides the translated document, provide it to the PMT.

- **Daily NRC Japan Team – RST/PMT Call.** Scheduled for 0300 RST and PMT have been notified of the call and international liaison should plan on participating (Brooke and Kirk don't necessarily participate). All parties should call into **301-816-5120** and use pass-code **6105.** 1500-2300 shift needs to pass this information to the 2300-0700 shift.

- **Conference Room.** Per Nancy's discussion with Brooke at 2015, the NRC Japan Team does not need a conference room at the hotel. Per Steve Baker's 1500 Transition, Barbara Gussack of Operations was going to

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submit an actual request for a conference room once the delegation agrees they need one. Jen Schwartzman contacted her this morning to let her know it was no longer needed. No further action is required.

- **Australian aircraft followup.** The first plane carrying the Bechtel pumps departed Australia around 0700 3/21. The second transport is supposed to depart at approximately 1700. As of the 1500 shift change, we had no information about any delays/problems with the second transport.

FUTURE ACTIONS

- **NRC Relief Team to Japan.**
  - On March 20 at 0900, International liaisons sent out an email to the new team members requesting BB numbers, email addresses and emergency contact information. Also awaiting flight arrival times. When this information is received we need to add it to applicable spreadsheet.
  - Dosimeters need to be given to the team members and located are in drawer at LIA03 location. Regional travelers will receive their dosimetry from the Region. Notes: Dosimetry should only be released directly to the travelers. They need to fill out the paperwork and leave it with the international liaison to return to NRR (Undine Shoop). They should take the back page which is instructions for use. Anyone who does not already have dosimetry needs to have a radiation brief before departure. All travelers are aware of this requirement.
  - KI tablets are in a box on top of the LIA04 desk and should be divided up among the travelers as they come to pick up their dosimetry.
  - Brooke, Kirk and Tony have requested an additional supply of business cards be provided to them. Mike Scott from RES, who is departing tomorrow, will take these along with Brooke's NRC thumb drive.
  - Cris Brown has advised that, rather than asking the relief team to carry additional satellite phones to Japan, the current team can turnover ownership of the two satellite phones already over there to a member of the relief team. The travelers have been advised to work with the current team to determine who should take ownership, then provide that name to Cris Brown and LIA02/LIA03. Action: When name is provided, ensure that Cris Brown has it.

- **International request for information.** The Indonesian Embassy in Washington requested information on how we arrived at the 50-mile evacuation announcement. We provided some very basic information. They have followed up with a request for a phone call or meeting with NRC and their Minister-Counselor. Action: Call will occur at 5PM on Monday, March 21 Don Cool will participate from the PMT and an international liaison should sit in.

- **Industry Japan Team.** On March 20 at 1400, Karen Henderson, at request of LT Director, contacted INPO representative Randy Tropasso (484-437-3541, or 770-366-7811) to discuss the logistics of industry representatives who may be sent to Japan. Mr. Tropasso stated that no individuals have yet been identified and that they are still evaluating what criteria/skills should be available on the team. Mr. Tropasso also noted that they are awaiting resolution of how the US Government will organize itself to manage the team's efforts and interactions with the Japanese Government. International liaisons awaiting possible follow-up call – no action unless INPO calls again.

- **21:30 Interagency Call.** Next call will be 3/21 at 21:30 EST.

- **Daily calls with UK/France/Canada.** Calls will take place tomorrow, 3/22, at 0930 with RST and at 1500 with PMT to discuss reactor-related and radiation-related information, respectively, with regulatory representatives from these three countries. Everyone should call into the HOO to be connected. Action: Int'l liaison should inform the HOO in advance that the calls will take place.

DAILY ACTIONS/REMINDERS

- Information pertinent to the team in Japan can be forwarded to new email group, "Liaison Japan," in Outlook.
- International updates must now be sent to LIA07 (to be put in the HOO Status Update) before the end of every shift as well as posted on the LT status board (different than the LT Log).
- 11 PM – 7 AM shift is responsible for the summary call with Kirk and Brooke, scheduled daily at 0500 EST unless rescheduled, and subsequent writeup of one-pager for Margie. Margie reminds us that the writeup should not contain technical details, which are already captured in other reports, and should be marked "Official Use Only – Foreign Government Information."
- The 11pm-7am shift is responsible for send all emails from the previous day to the FOIA email address (FOIA Response.hoc@nrc.gov).
- Kirk and Brooke requested that the international team to sit in on calls with the ET and Chuck to take notes and provide a short summary of what was discussed via email.
- Reminder to include names on watch bill emails and inform Brooke and Kirk when shift changes.
- Prior to any international call you set up, please make sure you contact the HOOs to let them know that you are going to have the international call.
- Reminder to Keep Mark Shaffer in-the-loop. at shaffermr@state.gov, regardless of time of day, regardless of whether he is in the office or asleep. Especially cc Mark on all communication to IAEA.

From: McDermott, Brian
Sent: Monday, March 21, 2011 10:54 AM
To: ET05 Hoc
Cc: RST01 Hoc; PMT01 Hoc; Pearson, Laura
Subject: FW: how do I send a tasker to the RST?

Task for RST and PMT.

Laura – please clarify how the response should go back to DOD.

Thanks,
Brian

From: Pearson, Laura
Sent: Monday, March 21, 2011 10:26 AM
To: McDermott, Brian
Cc: Masse, Todd
Subject: how do I send a tasker to the RST?

The DOD sent a Request for Information, and the RST are the experts on the topic. DoD wants to know what criteria NRC uses to know that the situation is getting worse—temperature, radiological, or anything else. They want to know what kinds of temperatures or rad levels would trigger concern at NRC. They want to do this so that they can track the situation themselves somewhat and know when they may need to be prepared to start evacuating. I approached the RST and asked for information and they asked for an official tasker. The DoD requests the information within 8 hours from now.

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From: OPA Resource

To: Ash, Darren; Barkley, Richard; Batkin, Joshua; Bell, Hubert; Belmore, Nancy; Bergman, Thomas; Bollwerk, Paul; Bonaccorso, Amy; Borchardt, Bill; Bozin, Sunny; Brenner, Eliot; Brock, Terry; Brown, Boris; Bubar, Patrice; Burnell, Scott; Burns, Stephen; Carpenter, Cynthia; Chandrathil, Prema; Clark, Theresa; Collins, Elmo; Couret, Ivonne; Crawford, Carrie; Cutler, Iris; Dacus, Eugene; Dapas, Marc; Davis, Roger; Dean, Bill; Decker, David; Dricks, Victor; Droggitis, Spiros; Flory, Shirley; Franovich, Mike; Gibbs, Catina; Haney, Catherine; Hannah, Roger; Harbuck, Craig; Harrington, Holly; Hasan, Nasreen; Hayden, Elizabeth; Holahan, Gary; Holahan, Patricia; Holian, Brian; Jacobssen, Patricia; Jaczko, Gregory; Jasinski, Robert; Jenkins, Verlyn; Johnson, Michael; Jones, Andrea; Kock, Andrea; Kotzalas, Margie; Ledford, Joey; Lee, Samson; Leeds, Eric; Lepre, Janet; Lew, David; Lewis, Antoinette; Loyd, Susan; Magwood, William; McCrary, Cheryl; McGrady-Finneran, Patricia; McIntyre, David; Mensah, Tanya; Mitlyng, Viktoria; Monninger, John; Montes, David; Nieh, Ho; Ordaz, Vonna; Ostendorff, William; Owen, Lucy; Powell, Amy; Quesenberry, Jeannette; Reddick, Darani; Regan, Christopher; Reyes, Luis; Riddick, Nicole; RidsSecyMailCenter Resource; Riley (OCA), Timothy; Rohrer, Shirley; Samuel, Olive; Satorius, Mark; Schaaf, Robert; Schmidt, Rebecca; Scott, Catherine; Screnci, Diane; Shaffer, Vered; Shane, Raeann; Sharkey, Jeffry; Sheehan, Neil; Sheron, Brian; Siurano-Perez, Osiris; Steger (Tucci), Christine; Svinicki, Kristine; Tabatabai, Omid; Tannenbaum, Anita; Taylor, Renee; Temp, WDM; Thomas, Ann; Uhle, Jennifer; Uselding, Lara; Vietti-Cook, Annette; Virgilio, Martin; Virgilio, Rosetta; Walker-Smith, Antoinette; Weaver, Doug; Weber, Michael; Weil, Jenny; Werner, Greg; Wiggins, Jim; Williams, Evelyn; Zimmerman, Roy; Zorn, Jason

Subject: Press Release: Prepared Remarks for Commission Meeting Monday, March 21, 2011

Date: Monday, March 21, 2011 9:36:17 AM

Attachments: 11-054.docx

For immediate release and posting.

Office of Public Affairs
US Nuclear Regulatory Commission
301-415-8200
opa.resource@nrc.gov

PPP/362

NRC NEWS

U.S. NUCLEAR REGULATORY COMMISSION
Office of Public Affairs Telephone: 301/415-8200
Washington, D.C. 20555-0001
E-mail: opa.resource@nrc.gov Site: www.nrc.gov
Blog: http://public-blog.nrc-gateway.gov

No. 11-054 March 21, 2011

PREPARED REMARKS FOR COMMISSION MEETING
MONDAY, MARCH 21, 2011

Good morning. The Commission meets today to discuss the tragic events in Japan and consider possible actions we may take to verify the safety of the nuclear facilities that we regulate in the United States. This meeting will—without a doubt—be one of the most heavily watched meetings in the history of this agency.

People across the country and around the world who have been touched by the magnitude and scale of this disaster are closely following the events in Japan, and the repercussions in this country and in many other countries. I would first like to offer my condolences to all those who have been affected by the earthquake and tsunami in Japan. Our hearts go out to all who have been dealing with the aftermath of these natural disasters, and we are mindful of the long and difficult road they will face in recovering. We know that the people of Japan are resilient and strong, and we have every confidence that they will come through this difficult time and move forward, with resolve, to rebuild their vibrant country.

I believe I speak for all Americans when I say that we stand together with the people of Japan at this most difficult and challenging time. The NRC is a relatively small agency, with approximately 4000 staff, but we play a critical role in protecting the American people and the environment. We have inspectors who work full-time at every nuclear plant in the country, and we are proud to have world-class scientists, engineers and professionals representing nearly every discipline.

Since Friday, March 11, when the earthquake and tsunami struck, the NRC's headquarters Operations Center has been operating on a 24-hour basis to monitor and analyze events at nuclear power plants in Japan. At the request of the Japanese government, and through the United States Agency for International Development (USAID), the NRC sent a team of its technical experts to provide on-the-ground support, and we have been in continual contact with them. And, within the United States, the NRC has been working closely with other Federal agencies as part of our government's response to the situation.

We have a responsibility to the American people to undertake a systematic and methodical review of the safety of our own domestic nuclear facilities, in light of the natural disaster and the resulting nuclear emergency in Japan. Beginning to examine all available

information is an essential part of our effort to analyze the event and understand its impact on Japan and implications for the United States. Our focus is always on keeping plants and radioactive materials in this country safe and secure.

As this immediate crisis in Japan comes to an end, we will look at any information we can gain from the event and see if there are changes we need to make, to further protect the public. Together with my colleagues on the Commission, we will review the current status and identify the steps we will take to conduct that review. In the meantime, we will continue to oversee and monitor plants to ensure that U. S. reactors remain safe.

On behalf of the Commission, I want to thank all of our staff for maintaining their focus on our essential safety and security mission throughout these difficult days. I want to acknowledge their tireless efforts and their critical contributions to the U.S. response to assist Japan. In spite of the evolving situation, the long hours, and the intensity of efforts over the past week, staff has approached their responsibilities with dedication, determination and professionalism, and I am incredibly proud of their efforts.

The American people also can be proud of the commitment and dedication within the Federal workforce, which is exemplified by our staff every day. Before we begin our meeting with Mr. Borchardt's presentation, would any of my fellow Commissioners like to make opening comments?

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News releases are available through a free *listserv* subscription at the following Web address: http://www.nrc.gov/public-involve/listserver.html. The NRC homepage at www.nrc.gov also offers a SUBSCRIBE link. E-mail notifications are sent to subscribers when news releases are posted to NRC's website.

From: LIA05 Hoc
Sent: Monday, March 21, 2011 7:56 AM
To: Dan Feighert; Andrew Seward; Harry Sherwood; John Simpson; Michelle Ralston; Steve Horwitz; Tim Greten; Vanessa E. Quinn; Albert Coons; Bill Webb; Conrad Burnside; Craig Fiore; Darrell Hammons; Lisa Hammond; Rebecca Thomson; Ronald McCabe; Steve Colman; William King
Subject: Q and A
Attachments: 11-053.pdf

FYI

Bonnie Sheffield Dayshift 0700-1500
Ken Wierman Nightshift 1500-2300
FEMA REP Liaison
NRC Operations Center
(301) 816-5187

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PPP/363

From:	OST05 Hoc
Sent:	Monday, March 21, 2011 7:57 AM
To:	Barker, Allan; Browder, Rachel; Erickson, Randy; Logaras, Harral; Maier, Bill; McNamara, Nancy; Tifft, Doug; Trojanowski, Robert; Woodruff, Gena; Collins, Elmo; Dean, Bill; Heck, Jared; McCree, Victor; Pederson, Cynthia; Satorius, Mark; Easson, Stuart; Flannery, Cindy; LIA04 Hoc; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta; Piccone, Josephine; Jackson, Deborah
Subject:	NRC Posts Updated Seismic Questions and Answers
Attachments:	11-053.pdf

NRC posted a series of seismic and tsunami Q's and A's over the weekend.

Feel free to forward to interested stakeholders.

NRC NEWS

U.S. NUCLEAR REGULATORY COMMISSION
Office of Public Affairs Telephone: 301/415-8200
Washington, D.C. 20555-0001
E-mail: opa.resource@nrc.gov Site: www.nrc.gov
Blog: http://public-blog.nrc-gateway.gov

No. 11-053 March 19, 2011

NRC POSTS UPDATED SEISMIC QUESTIONS AND ANSWERS

The Nuclear Regulatory Commission has posted a series of updated seismic and tsunami questions and answers on its website. The Q&A provides basic information on earthquakes and tsunamis, details on U.S. nuclear power plant seismic design and an explanation of NRC's recent study on earthquake risk. The document is available at http://www.nrc.gov/japan/faqs-related-to-japan.pdf, and other NRC information related to the March 11 earthquake and tsunami is available at http://www.nrc.gov/japan/japan-info.html.

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News releases are available through a free *listserv* subscription at the following Web address: http://www.nrc.gov/public-involve/listserver.html. The NRC homepage at www.nrc.gov also offers a SUBSCRIBE link. E-mail notifications are sent to subscribers when news releases are posted to NRC's website.

From: Taylor, Robert
Sent: Tuesday, March 22, 2011 8:25 AM
To: LIA03 Hoc; Dorman, Dan; Scott, Michael; Blamey, Alan; Giessner, John; Jackson, Todd; Miller, Marie; Ali, Syed; Sheikh, Abdul; Way, Ralph; Ramsey, Jack; Bloom, Steven
Cc: LIA02 Hoc
Subject: RE: Instructions for NRC Deployees

I hold Bachelor's and Master's degrees in Chemical Engineering. Prior to joining the NRC in 2001, I served as a naval nuclear instructor with Bechtel Bettis Atomic Power Laboratories at the Navy's Nuclear Power Training Unit in Charleston, South Carolina. I was responsible for training officer and enlisted naval personnel in a wide variety of engineering disciplines but specialized in reactor physics and accident analysis and response. After joining the NRC, I worked in NRR's Reactor Systems Branch on core and fuel design, design basis accident and transient analyses, and criticality and thermal-hydraulic spent fuel pool analyses. I subsequently joined the EDO's office as a Senior Technical Communications Assistant for the Deputy EDO for Reactor and Preparedness Programs. In that capacity, I supported the Chairman's office and EDO on high-profile safety and security issues. I coordinated the agency's response on a number of issues working with OCA and OPA to ensure our message was effectively communicated to external stakeholders. This included preparation of Congressional testimony, communications plans, briefings of federal and state officials, and the general public. After leaving the EDO's office, I assumed the position of Chief of the Accident Dose Branch in NRR. In this role I was responsible for overseeing engineers and meteorologists responsible for conducting reviews of the radiological consequences of severe accidents. This included determining the source term for the accident, integrity assessments of primary and secondary containment buildings, reviews of site meteorological conditions for dispersal of radioactive materials, and dose calculations for plant workers and members of the public. Currently, I am the Chief of the Steam Generator Tube Integrity and Chemical Engineering Branch in NRR which has responsibility for a variety of material and chemical engineering issues within the agency including support to long term core cooling issues resulting from GSI-191.

Since the beginning of the events in Japan, I have served in the Incident Response Center as the Technical Briefer for the Office of Public Affairs. In that capacity I am responsible for translating the technical information prepared by the RST and PMT into communication materials, such as press releases, talking points, Q&As, that can be used by the Chairman, EDO, and other senior NRC managers to communicate on the ongoing events. I also have been responsible for responding to media and public inquiries on the event.

From: LIA03 Hoc
Sent: Monday, March 21, 2011 7:14 PM
To: Dorman, Dan; Scott, Michael; Blamey, Alan; Giessner, John; Taylor, Robert; Jackson, Todd; Miller, Marie; Ali, Syed; Sheikh, Abdul; Way, Ralph; Ramsey, Jack; Bloom, Steven
Cc: LIA02 Hoc
Subject: FW: Instructions for NRC Deployees

Dear Outgoing Team – Please take note of the below email. **Also, please send a 1 or 2 paragraph bio at your earliest convenience.**

Thank You,
NRC International Liaison Team

From: LIA01 Hoc
Sent: Monday, March 21, 2011 7:03 PM
To: RMTPACTSU_ELNRC; LIA02 Hoc; LIA03 Hoc
Subject: Instructions for NRC Deployees

PPP/364

From Phone call with Chuck Casto in Japan:

NRC staff deploying to Japan should report to their hotel, get rest, report to the US Embassy in the AM

Ned Wright
NRC Federal Liaison

From: Jackson, Todd
Sent: Tuesday, March 22, 2011 7:48 AM
To: LIA03 Hoc; Dorman, Dan; Scott, Michael; Blamey, Alan; Giessner, John; Taylor, Robert; Miller, Marie; Ali, Syed; Sheikh, Abdul; Way, Ralph; Ramsey, Jack; Bloom, Steven
Cc: LIA02 Hoc
Subject: RE: Instructions for NRC Deployees

Summary of experience is below.

Todd

Todd Jackson: 21 years NRC experience, with a 12 year midpoint break working in the nuclear power industry. I am currently a Senior Health Physicist in Region I performing inspections and licensing for a wide range of radioactive materials uses in research, industry and medicine. Previous positions include: Project Engineer in RI/Division of Reactor Projects supporting Indian Point, and in Div of Nuclear Materials Safety as decommissioning inspector for Maine Yankee, Millstone 1, West Valley Project (lead inspector for NRC oversight of Millstone missing fuel issue and Vermont Yankee missing fuel); Chemistry Manager for Philadelphia Electric (PECO) at Limerick Station (2 unit BWR) and Engineer in corporate office; Manager with Westinghouse, performing consulting in emergency planning, radiation safety and chemistry at operating plants and new plant startups; Radiation Specialist with NRC, doing routine inspections of operating plant effluent/radwaste measurements and environmental monitoring. BS Biology, MS Environmental Engineering/Radiological Health, both from Rensselaer Polytechnic Institute. Certified Health Physicist.

Emergency response experience includes NRC initial response to TMI (performing independent measurements in NRC mobile lab), Limerick chemistry team leader, PECO dose assessment for Limerick and Peach Bottom, NRC dose assessment and protective measures site team/base team.

From: LIA03 Hoc
Sent: Monday, March 21, 2011 7:14 PM
To: Dorman, Dan; Scott, Michael; Blamey, Alan; Giessner, John; Taylor, Robert; Jackson, Todd; Miller, Marie; Ali, Syed; Sheikh, Abdul; Way, Ralph; Ramsey, Jack; Bloom, Steven
Cc: LIA02 Hoc
Subject: FW: Instructions for NRC Deployees

Dear Outgoing Team – Please take note of the below email. **Also, please send a 1 or 2 paragraph bio at your earliest convenience.**

Thank You,
NRC International Liaison Team

From: LIA01 Hoc
Sent: Monday, March 21, 2011 7:03 PM
To: RMTPACTSU_ELNRC; LIA02 Hoc; LIA03 Hoc
Subject: Instructions for NRC Deployees

From Phone call with Chuck Casto in Japan:

NRC staff deploying to Japan should report to their hotel, get rest, report to the US Embassy in the AM

PPP/365

Ned Wright
NRC Federal Liaison

From: OST05 Hoc
Sent: Tuesday, March 22, 2011 9:23 AM
To: Turtil, Richard
Subject: boardfile
Attachments: boardfile.docx

Per your request!!

PPP\366

Quake_TP_3_17.docx

OPA

TALKING POINTS

JAPAN NUCLEAR SITUATION

As of 3/18/2011 3:15p.m. EDT

Update: Addition of bullets on Information Notice and Detectable Levels of Radiation at Diablo Canyon

- Based on calculations performed by NRC experts, we now believe that it is appropriate for U.S. residents within 50 miles of the Fukushima reactors to evacuate. Our recommendation is based on NRC guidelines for public safety that would be used in the United States under similar circumstances.

- The 10-mile EPZ reflects the area where projected doses from design basis accidents at nuclear power plants would not exceed the EPA's protective action guidelines, and we are confident that it would be adequate even for severe accidents. However, the 10-mile zone was always considered a base for emergency response that could be expanded if the situation warranted. The situation in Japan, with four reactors experiencing exceptional difficulties simultaneously, creates the need to expand the EPZ beyond the normal 10-mile radius.

  We have said from the beginning of this crisis that the NRC would analyze this situation for any lessons that can be derived to improve our oversight of U.S. nuclear power plants. Emergency planning will be part of that review.

- Given the results of the monitoring and distance between Japan and Hawaii, Alaska, U.S. Pacific Territories and the U.S. West Coast, the NRC expects the U.S. to avoid any harmful levels of radioactivity. The NRC is aware of various internet postings depicting modeled radiation plumes for the ongoing events at the nuclear power plants in Japan. All of the models the NRC has seen are based on generic assumptions regarding the potential radiation release from the plants and as such are unable to predict actual radiation levels away from the site. The NRC is working closely with our federal partners to monitor radiation releases from the Japanese nuclear power plants.

- [Only if specifically asked] The NRC is aware that Diablo Canyon nuclear power plant in California detected a very low level of radiation. The site believes that the source of the radiation is likely the Fukushimi Daiichi nuclear power plant in Japan. The amounts detected are barely detectable on the instruments and pose no danger to public health and safety. The NRC continues to believe, based on all available information, that no harmful levels of radiation will reach U.S. territory. This information has been shared with the U.S. Department of Energy and the U.S. Environmental Protection Agency. Additional questions regarding monitoring of the radioactive release should be referred to DOE at 202 586 4940.

- [Planned to be issued by COB; confirm before use] The NRC today issued an Information Notice to all of its operating nuclear power plants describing the effects of the March 11 earthquake and tsunami on Japanese nuclear power plants. The purpose of the Information Notice is to inform the plants of the most recent information available to the NRC. The NRC expects U.S. nuclear power plants will review the entire notice to determine how it applies to their facilities and consider actions, as appropriate.

- The NRC continues to work with other U.S. agencies to monitor radioactive releases from Japan and to predict their path.

- The Department of Energy has been designated the lead agency for communicating information to the States regarding monitoring of radiation heading toward or over the United States. The DOE's Lawrence Livermore National Laboratory (National Atmospheric Release Assessment Center) is monitoring weather patterns over the Pacific Ocean. The Environmental Protection Agency maintains air monitoring stations throughout the country and has reinforced its monitoring effort. DOE will provide aerial monitoring. Questions about this effort should be directed to DOE at 202 586 4940.

- The NRC is closely monitoring information about the spent fuel pools as well as radiation levels at the Japanese nuclear power plants. Given the totality of the situation, the NRC's recommendation for U.S. residents within 50 miles of the Fukushima reactors to evacuate remains unchanged. That recommendation was based on actual radiation levels in the nuclear complex.

- In accordance with established protocols, U.S. Customs and Border Protection (CBP) employs several types of radiation detection equipment in its operations at both air and sea ports, and uses this equipment, along with specific operational protocols, to resolve any security or safety risks that are identified with inbound travelers and cargo. Out of an abundance of caution, CBP has issued field guidance reiterating its operational protocols and directing field personnel to specifically monitor maritime and air traffic from Japan. CBP will continue to evaluate the potential risks posed by radiation contamination on inbound travelers and cargo and will adjust its detection and response protocols, in coordination with its interagency partners, as developments warrant.

- The Japanese government has formally asked for U.S. assistance in responding to nuclear power plant cooling issues triggered by an earthquake and tsunami on March 11. The NRC has eleven staff on the ground in Japan as part of the USAID team.

- The NRC is coordinating its actions with other federal agencies as part of the U.S. government response. The NRC's headquarters Operations Center was activated at the beginning of the event and has been monitoring the situation on a 24-hour basis ever since.

- The NRC is always looking to learn information that can be applied to U.S. reactors and we will analyze the information that comes from this incident. President Obama has directed the agency to conduct a comprehensive review of the safety of U.S. nuclear plants; the agency will do so.

- U.S. nuclear power plants are built to withstand environmental hazards, including earthquakes. Even those plants that are located outside of areas with extensive seismic activity are designed for safety in the event of such a natural disaster.

- The NRC requires that safety-significant structures, systems, and components be designed to take into account the most severe natural phenomena historically reported for the site and surrounding area. The NRC then adds a margin for error to account for the limitations on historical data. In other words, U.S. nuclear power plants are designed to be safe based on historical data to predict the area's maximum credible earthquake.

- In response to MSNBC report ranking US NPPs according to vulnerability to earthquakes: The NRC does not rank nuclear power plants according to their vulnerability to earthquakes. This "ranking" was developed by an MSNBC reporter using partial information and an even more partial understanding of how we evaluate plants for seismic risk. Each plant is evaluated individually according to the geology of its site, not by a "one-size-fits-all" model - therefore such rankings or comparisons are highly misleading.

From: LIA04 Hoc
Sent: Tuesday, March 22, 2011 2:46 PM
To: Turtil, Richard
Cc: OST05 Hoc
Subject: RE: Please help me answer this question as soon as possible

Michelle made the point that the email does not extend a request to addend

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From: Maier, Bill
Sent: Tuesday, March 22, 2011 2:43 PM
To: Turtil, Richard; LIA04 Hoc; LIA08 Hoc; LIA06 Hoc; PMT01 Hoc; Hoc, PMT12; Browder, Rachel; Erickson, Randy; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Virgilio, Rosetta
Subject: RE: Please help me answer this question as soon as possible

Rich,

Please see the attached.

Bill Maier

From: Turtil, Richard
Sent: Tuesday, March 22, 2011 1:33 PM
To: LIA04 Hoc; Maier, Bill; LIA08 Hoc; LIA06 Hoc; PMT01 Hoc; Hoc, PMT12; Browder, Rachel; Erickson, Randy; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Virgilio, Rosetta
Subject: RE: Please help me answer this question as soon as possible

I have/had no awareness of the meeting or of an invitation for NRC to participate.

Richard Turtil

From: LIA04 Hoc
Sent: Tuesday, March 22, 2011 11:32 AM
To: Maier, Bill; LIA08 Hoc; LIA06 Hoc; PMT01 Hoc; Hoc, PMT12; Browder, Rachel; Erickson, Randy; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; LIA04 Hoc; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta
Subject: FW: Please help me answer this question as soon as possible

Does anyone have information relative to the question below???

Cardelia Maupin
State Liaison
NRC Operations Center

From: Harrington, Holly
Sent: Tuesday, March 22, 2011 11:07 AM
To: LIA04 Hoc
Subject: Please help me answer this question as soon as possible

PPP B67

This question was posted as a blog comment. Before I post it, I'd like to know how to answer:

On March 21, 2011, The California Senate Select Committee on Earthquake and Disaster Preparedness held hearings on the impact and lessons learned from the disaster in Japan. Southern California Edison (SONGS) and Pacific Gas and Electric (Diablo Canyon) made presentations and responded to questioning by Chair Corbett and members of the Committee. Numerous safety related issues were raised and the Commission's licensing process was impugned.
Why wasn't NRC represented at this important meeting?

From: LIA06 Hoc
Sent: Tuesday, March 22, 2011 3:30 PM
To: FOIA Response.hoc Resource
Subject: FW: Please help me answer this question as soon as possible

Liaison Team Director
U.S. Nuclear Regulatory Commission
Operations Center

From: Turtil, Richard
Sent: Tuesday, March 22, 2011 2:33 PM
To: LIA04 Hoc; Maier, Bill; LIA08 Hoc; LIA06 Hoc; PMT01 Hoc; Hoc, PMT12; Browder, Rachel; Erickson, Randy; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Virgilio, Rosetta
Subject: RE: Please help me answer this question as soon as possible

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Richard Turtil

From: LIA04 Hoc
Sent: Tuesday, March 22, 2011 11:32 AM
To: Maier, Bill; LIA08 Hoc; LIA06 Hoc; PMT01 Hoc; Hoc, PMT12; Browder, Rachel; Erickson, Randy; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; LIA04 Hoc; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta
Subject: FW: Please help me answer this question as soon as possible

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State Liaison
NRC Operations Center

From: Harrington, Holly
Sent: Tuesday, March 22, 2011 11:07 AM
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This question was posted as a blog comment. Before I post it, I'd like to know how to answer:

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PPP/368

impugned.
Why wasn't NRC represented at this important meeting?

From: OST05 Hoc
Sent: Tuesday, March 22, 2011 8:14 PM
To: Natarajan, Nitin (HHS/ASPR/OPEO)
Cc: Turtil, Richard; Ryan, Michelle; LIA04 Hoc; OST05 Hoc
Subject: *HHS Call with State Officials Regarding Japanese Earthquake/ Tsunami*

Nitin,

Please make sure that the NRC Operations Center Liaison Team is included on email communications regarding HHS teleconference planned for Thursday, March 24 (and other upcoming calls).

The Email Addresses that should be included are:
LIA04.hoc@nrc.gov
Ost05.hoc@nrc.gov

Thanks
Michelle

Michelle Ryan
State Liaison – Liaison Team
NRC Operations Center

PPP 369

From: ET02 Hoc
Sent: Tuesday, March 22, 2011 4:07 PM
To: Devercelly, Richard
Cc: ET07 Hoc
Subject: FW: Sharepoint site

Importance: High

Rick:

Here is the link you can use to upload the photos you want to share with the NRC HQ Executive Team. If you have any questions, please contact me (Karen Jackson 301-816-5100 x5804) or e-mail ET02.hoc@nrc.gov. Thanks

---

From: Davis, Henry
Sent: Tuesday, March 22, 2011 3:57 PM
To: ET02 Hoc; ET07 Hoc
Subject: FW: Sharepoint site

FYI

From: Davis, Henry
Sent: Tuesday, March 22, 2011 3:55 PM
To: Gott, William
Cc: Jackson, Karen
Subject: Sharepoint site

http://portal.nrc.gov/contractors/l3_eits/JSPL/default.aspx

PPP/370

From: LIA07 Hoc
Sent: Tuesday, March 22, 2011 4:49 PM
To: OST01 HOC; OST02 HOC; OST03 HOC; OST05 Hoc
Subject: FW: Temporary Parking Pass for R. Zimmerman
Attachments: image001.gif

Please assist with this.
Thanks,
Sara

From: Riddick, Nicole
Sent: Tuesday, March 22, 2011 3:50 PM
To: LIA07 Hoc
Subject: Temporary Parking Pass for R. Zimmerman

Good Afternoon,
I contacted ASC/ADM to gain a temporary parking pass for Roy Zimmerman. Upon contacting them, they suggested that I contact OPA 415-8200 (which didn't make sense to me). I did that, but OPA told me to contact ADM. According to the NRC Announcement that came out, the contact should be 415-4272, which is ADM. Would you happen to know anything different, so that I can expedite Mr. Zimmerman's request? Please advise.

Nicole D. Riddick
Administrative Assistant to Roy P. Zimmerman
U.S. Nuclear Regulatory Commission
Office of Enforcement
Location: O-4A15A
|**E-mail:** Nicole.Riddick@nrc.gov|**Office:** (301) 415-2741 |**Fax:** (301) 415-3431|

PPP/371

From: Hoc, PMT12
Sent: Tuesday, March 22, 2011 10:37 AM
To: PMT03 Hoc
Subject: Info for OPA on EPZ
Attachments: Info for OPA on EPZ.docx

PPP/372

Info for OPA on EPZ

- For domestic events licensees are responsible for making protective action recommendations (PAR) based on plant conditions and/or dose projection, and emergency plans in place. The State then makes a protective action decision (PAD) to either use the licensee's PAR or to make their own decision. NRC monitors the PAR and the PAD.
- Each licensee has their own emergency procedures, however most start with a 2 mile radius and 5 mile downwind evacuation. Some licensees recommend initial evacuation out to 10 miles, depending on plant conditions. Dose projections requiring PARs beyond 10 miles are provided to the States for PADs beyond 10 miles. Emergency planning zones are meant to be expanded, as necessary, depending on plant conditions. NRC believes this emergency preparedness basis is appropriate.
- In the US, the NRC has access to plant data via the ERDS network and can easily obtain plant data that may be used in RASCAL calculations to make evaluations of realistic protective actions. In addition, NRC has a detailed understanding of plant design for US plants and would not have to make assumptions, as was done for the Japanese plants and spent fuel pools.
- On March 16th the NRC recommended that Americans in Japan evacuate to 50 miles. This was based on extremely limited data from Japan that was used to develop two dose assessments using RASCAL. As discussed in the press release, this was based on system conditions for a hypothetical single reactor site (source terms were combined) and is not representative of an actual release.
- If these exact conditions occurred in the US, the State would have made a PAD and the NRC would have expected it to be similar to the PAR issued by NRC in this event. However if this event were in the US, the NRC would have realistic data from the licensee and would not have to rely on hypothetical and overly conservative assumptions.

From: ET07 Hoc
Sent: Tuesday, March 22, 2011 1:00 PM
To: ET05 Hoc
Subject: FW:

From: Dorman, Dan
Sent: Tuesday, March 22, 2011 3:05 AM
To: OST01 HOC; Casto, Greg; Monninger, John; ET07 Hoc
Subject: RE:

Additional tasks from meeting with NISA et al this morning. Lower prirority than the Cabinet level issues we just discussed on the phone, but any responses available by 1800 EDT on 3/22 would be greatly appreciated along with an estimate of when the remainder may be expected. If you need additional info, please identify any questions we can bring back to NISA (keeping in mind please that their plant data is also very limited, i.e., keep your data expectations modest).

1. Sea water injection continues to reactors 1-3. NISA is concerned about the radiolytic disassociation of H2 and O2. NISA would like NRC's perspective on the significance of this concern and how to treat this concern as they transition to freshwater injection.
2. At what point does salt deposits become a problem for flow during pending freshwater injection?
3. NISA is conducting simulations to project the extent of damage to fuel in the reactors. Has NRC developed any views on the extent of fuel damage?
4. NISA is interested to obtain any reference material regarding core-concrete interaction (not because they think they have a current issue but against that eventuality) including the conditions under which that occurs and any associated data.
5. In addition to the H2/O2 disassociation in item 1 above, they are concerned that there may be residual H2 in the containments and welcome NRC's thoughts on how to treat such a condition.

NISA is beginning to look at long term issues and has the following Qs in this area (note some of these may only apply to Japan's regulatory framework, but if we have insights from our post-TMI actions they would be greatly appreciated):
6. Regarding the best type of enclosure for the plant, does NRC have any thoughts? Do we have any regulations applicable to this condition or thoughts on the role of the regulatory authority in this deicision?
7. What licensing requirements apply to decommissioning and regulatory review of the decommissioning plan?
8. What should they be considering with respect to criticality prevention and decay heat removal during the entombment period?
9. The NRC's TMI Fact Sheet notes that the first manned entry into the Unit 2 reactor building occurred after a venting of Krypton in July 1980 (16 months after the accident). What actions occurred during those 16 months that could inform their planning?

Regarding the spent fuel pools, NISA asserted that the Unit 1 SFP is above TAF with over 20 days margin due to low decay heat. They are not injecting to the UNit 1 SFP. For Unit 2, they are injecting seawater to the SFP via installed piping. For Units 3 and 4, they are spraying from pumper trucks within the RBs to put water on the top of the pools (In response to a question, they indicated that these sprays were put in place after the explosive events in those buildings.) Based on this information, NISA is assuming that the SFPs are all below 100C. The team here has questions relative to the latter buildings and other information available, for example, lack of visual evidence of steaming on Unit 4. We would appreciate HQ's thoughts on the SFPs and apparent inconsistencies with the status provided by NISA.

Dan Dorman

PPP/373

From: Hoc, PMT12
Sent: Tuesday, March 22, 2011 3:10 PM
To: PMT03 Hoc; Harrington, Holly
Subject: RE: Assumed plant conditions supporting March 16, 2011 NRC press release.docx

Looks good

From: PMT03 Hoc
Sent: Tuesday, March 22, 2011 2:58 PM
To: Hoc, PMT12
Subject: FW: Assumed plant conditions supporting March 16, 2011 NRC press release.docx

FYI and action, if any.

Prosanta

From: Harrington, Holly
Sent: Tuesday, March 22, 2011 2:56 PM
To: PMT03 Hoc; Shoop, Undine; Riley (OCA), Timothy
Subject: RE: Assumed plant conditions supporting March 16, 2011 NRC press release.docx

Thank you all for this information. We decided it might be useful to make this a blog post, as there were many commenters to the blog who posed a similar question. Please see attached. I'm assuming this was blessed by whomever needed to? (PMT?)

We'll run this tomorrow.

From: PMT03 Hoc
Sent: Tuesday, March 22, 2011 1:10 PM
To: Shoop, Undine; Harrington, Holly; Riley (OCA), Timothy
Subject: Assumed plant conditions supporting March 16, 2011 NRC press release.docx

PPP/374

From: PMT03 Hoc
Sent: Tuesday, March 22, 2011 2:58 PM
To: Hoc, PMT12
Subject: FW: Assumed plant conditions supporting March 16, 2011 NRC press release.docx
Attachments: Assumed plant conditionsblogpost.docx

FYI and action, if any.

Prosanta

From: Harrington, Holly
Sent: Tuesday, March 22, 2011 2:56 PM
To: PMT03 Hoc; Shoop, Undine; Riley (OCA), Timothy
Subject: RE: Assumed plant conditions supporting March 16, 2011 NRC press release.docx

Thank you all for this information. We decided it might be useful to make this a blog post, as there were many commenters to the blog who posed a similar question. Please see attached. I'm assuming this was blessed by whomever needed to? (PMT?)

We'll run this tomorrow.

From: PMT03 Hoc
Sent: Tuesday, March 22, 2011 1:10 PM
To: Shoop, Undine; Harrington, Holly; Riley (OCA), Timothy
Subject: Assumed plant conditions supporting March 16, 2011 NRC press release.docx

Details Behind our March 16th Announcement

We're getting follow-up questions from the public on how we reached the conclusions that prompted out March 16th press release recommending that U.S. residents within 50 miles of the Fukushima reactors to evacuate. I reached out to some of the technical folks to provide you with some additional information on the two sets of computer calculations used to support the NRC recommendations.

Here is what they say:

Both assessments are hypothetical, stylized analyses of consequences of releases from the Fukushima nuclear power plant Units 2, 3 and 4.

The first assessment assumed release from one reactor unit, specifically Unit 2. It assumed an ex-vessel, unfiltered release from a totally failed containment, 100 percent fuel damage, and actual meteorological conditions during early morning hours. The low dispersion characteristics included low wind speeds, relatively stable air, and light precipitation.

The assessment considered the conditions of the plant at the time and possible degrading conditions. The assumptions included total failure, sprays off, no removal mechanism (e.g., scrubbing), no mitigation by the operator. A ground level release was assumed with release duration of 16 hours.

The second assessment represented multiple unit failures, in this case Units 2 and 3 and the spent fuel pool (SFP) of Unit 4. Specifically, it assumed 30 percent core damage at Units 2 and 3, and 100 percent fuel damage for the Unit 4 spent fuel pool. The Unit 4 spent fuel pool was assumed to include only a full core offload from the current outage. To account for the combined inventories of the three units sources (i.e., from Units 2 and 3 and Unit 4 spent fuel pool), the staff adjusted the reactor power level, fuel burnup and number of assemblies, and included that in one calculation. This resulted in 917 assemblies in the core.

The assumptions included total failure, sprays off, no removal mechanism (e.g., scrubbing), no mitigation by the operator. The meteorological conditions for the second assessment also assumed actual conditions with light precipitation, fairly stable wind conditions with occasional higher wind speeds and less stable atmospheric conditions, resulting in greater atmospheric dispersion. A ground level release was assumed with release duration of 15 hours.

I hope this explanation is helpful.

Eliot Brenner
Public Affairs Director

From: Harrington, Holly
Sent: Tuesday, March 22, 2011 3:48 PM
To: Hoc, PMT12; PMT03 Hoc
Subject: RE: Assumed plant conditions supporting March 16, 2011 NRC press release.docx

Sorry, my boss had some questions about the content. They are in red below:

Details Behind our March 16th Announcement

We're getting follow-up questions from the public on how the NRC reached the conclusions that prompted out the direction march 16 from the U.S. Embassy in Tokyo that U.S. citizens within 50 miles of the Fukushima reactors evacuate the area. I reached out to some of the technical experts to provide additional information about what went into two sets of computer calculations that were run.

Here is what they say:

Both assessments are hypothetical, stylized analyses of consequences of releases from the Fukushima nuclear power plant Units 2, 3 and 4. WHAT HAPPENED WITH UNIT 1 IN THESE CALCULATIONS?

The first assessment assumed release from one reactor unit, specifically Unit 2. It assumed all fuel melted and escaped from the reactor core, that containment failed, and it used actual meteorological conditions during early morning hours. The low dispersion characteristics included low wind speeds, relatively stable air, and light precipitation.

The assessment considered the conditions of the plant at the time and possible degrading conditions. The assumptions included total failure, sprays off, no removal mechanism (e.g., scrubbing), no mitigation by the operator. A ground level release was assumed with release duration of 16 hours.

The second assessment represented multiple unit failures, in this case Units 2 and 3 and the spent fuel pool (SFP) of Unit 4. Specifically, it assumed 30 percent core damage at Units 2 and 3, and 100 percent fuel damage for the Unit 4 spent fuel pool. The Unit 4 spent fuel pool was assumed to include only a full core offload from the current outage. To account for the combined inventories of the three units sources (i.e., from Units 2 and 3 and Unit 4 spent fuel pool), the staff adjusted the reactor power level, fuel burn up and number of assemblies, and included that in one calculation. This resulted in 917 assemblies in the core. (I do not understand that last sentence. If it read cores (plural) it might make sense)

The assumptions included total failure, sprays off, no removal mechanism (e.g., scrubbing), no mitigation by the operator. The meteorological conditions for the second assessment also assumed actual conditions with light precipitation, fairly stable wind conditions with occasional higher wind speeds and less stable atmospheric conditions, resulting in greater atmospheric dispersion. A ground level release was assumed with release duration of 15 hours.

I hope this explanation is helpful.

Eliot Brenner
Public Affairs Director

PPP/375

From: Hoc, PMT12
Sent: Tuesday, March 22, 2011 3:10 PM
To: PMT03 Hoc; Harrington, Holly
Subject: RE: Assumed plant conditions supporting March 16, 2011 NRC press release.docx

Looks good

From: PMT03 Hoc
Sent: Tuesday, March 22, 2011 2:58 PM
To: Hoc, PMT12
Subject: FW: Assumed plant conditions supporting March 16, 2011 NRC press release.docx

FYI and action, if any.

Prosanta

From: Harrington, Holly
Sent: Tuesday, March 22, 2011 2:56 PM
To: PMT03 Hoc; Shoop, Undine; Riley (OCA), Timothy
Subject: RE: Assumed plant conditions supporting March 16, 2011 NRC press release.docx

Thank you all for this information. We decided it might be useful to make this a blog post, as there were many commenters to the blog who posed a similar question. Please see attached. I'm assuming this was blessed by whomever needed to? (PMT?)

We'll run this tomorrow.

From: PMT03 Hoc
Sent: Tuesday, March 22, 2011 1:10 PM
To: Shoop, Undine; Harrington, Holly; Riley (OCA), Timothy
Subject: Assumed plant conditions supporting March 16, 2011 NRC press release.docx

From: LIA05 Hoc
Sent: Tuesday, March 22, 2011 7:12 PM
To: Feighert, Dan
Subject: faqs-related-to-japan.pdf
Attachments: faqs-related-to-japan.pdf

Mr. Feighert,

Additional reference.

Bonnie Sheffield Dayshift 0700-1500
Ken Wierman Nightshift 1500-2300
FEMA REP Liaison
NRC Operations Center
(301) 816-5187

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PPP/376

U.S.NRC

United States Nuclear Regulatory Commission

Protecting People and the Environment

NRC frequently asked questions related to the March 11, 2011 Japanese Earthquake and Tsunami

List of Questions

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1) Can an earthquake and tsunami as large as happened in Japan also happen here?

This earthquake occurred on a "subduction zone", which is the type of tectonic region that produces earthquakes of the largest magnitude. A subduction zone is a tectonic plate boundary where one tectonic plate is pushed under another plate. Subduction zone earthquakes are also required to produce the kind of massive tsunami seen in Japan. In the continental US, the only subduction zone is the Cascadia subduction zone which lies off the coast of northern California, Oregon and Washington. So, a continental earthquake and tsunami as large as in Japan could only happen there. The only nuclear plant near the Cascadia subduction zone is the Columbia Generating Station. This plant is located a large distance from the coast (approximately 225 miles) and the subduction zone (approximately 300 miles), so the ground motions estimated at the plant are far lower than those seen at the Fukushima plants. This distance also precludes the possibility of a tsunami affecting the plant. Outside of the Cascadia subduction zone, earthquakes are not expected to exceed a magnitude of approximatly 8. Magnitude is measured on a log scale and so a magnitude 9 earthquake is approximately 32 times larger than a magnitude 8 earthquake.

2) Did the Japanese underestimate the size of the maximum credible earthquake and tsunami that could affect the plants?

The magnitude of the earthquake was somewhat greater than was expected for that part of the subduction zone. However, the Japanese nuclear plants were recently reassessed using ground motion levels similar to those that are believed to have occurred at the sites. The ground motions against which the Japanese nuclear plants were reviewed were expected to result from earthquakes that were smaller, but were much closer to the sites. The NRC does not currently have information on the maximum tsunami height that was expected at the sites.

3) How high was the tsunami at the Fukushima nuclear plants?

The tsunami modeling team at the National Oceanic and Atmospheric Administration's Pacific Marine Environmental Lab have estimated the wave height just offshore to be approximately 8 meters in height at Fukushima Daiichi and approximately 7 meters in Fukushima Daini. This is based on recordings from NOAA's Deep-ocean Assessment and Reporting of Tsunamis (DART) buoys and a high resolution numerical model developed for the tsunami warning system. If plant recordings exist they were not yet provided to the NRC.

4) Was the damage to the Japanese nuclear plants mostly from the earthquake or the tsunami?

Because this event happened in Japan, it is hard for NRC staff to make the assessment necessary to understand exactly what happened at this time. In the nuclear plants there may have been some damage from the shaking, and the earthquake caused the loss of offsite power. However, the tsunami appears to have played a key role in the loss of other power sources at the site producing station blackout, which is a critical factor in the ongoing problems.

5) Have any lessons for US nuclear plants been identified?

The NRC is in the process of following and reviewing the event in real time. This will undoubtedly lead to the identification of issues that warrant further study. However, a complete

understanding of lessons learned will require more information than is currently available to NRC staff.

6) Was there any damage to US reactors from either the earthquake or the resulting tsunami?

No.

7) How many US reactors are located in active earthquake zones?

Although we often think of the US as having "active" and "non-active" earthquake zones, earthquakes can actually happen almost anywhere. Seismologists typically separate the US into low, moderate, and high seismicity zones. The NRC requires that every nuclear plant be designed for site-specific ground motions that are appropriate for their locations. In addition, the NRC has specified a minimum ground motion level to which nuclear plants must be designed.

8) What level of earthquake hazard are the US reactors designed for?

Each reactor is designed for a different ground motion that is determined on a site-specific basis. The existing nuclear plants were designed on a "deterministic" or "scenario earthquake" basis that accounted for the largest earthquakes expected in the area around the plant, without consideration of the likelihood of the earthquakes considered. New reactors are designed using probabilistic techniques that characterize both the ground motion levels and uncertainty at the proposed site. These probabilistic techniques account for the ground motions that may result from all potential seismic sources in the region around the site. Technically speaking, this is the ground motion with an annual frequency of occurrence of 1×10^{-4}/year, but this can be thought of as the ground motion that occurs every 10,000 years on average. One important aspect is that probabilistic hazard and risk-assessment techniques account for beyond-design basis events. NRC's Generic Issue 199 (GI-199) project is using the latest probabilistic techniques used for new nuclear plants to review the safety of the existing plants. [see questions 16 to 21 for more information about GI-199]

9) What magnitude earthquake are currently operating US nuclear plants designed to?

Ground motion is a function of both the magnitude of an earthquake and the distance from the fault to the site. Nuclear plants, and in fact all engineered structures, are actually designed based on ground motion levels, not earthquake magnitudes. The existing nuclear plants were designed based on a "deterministic" or "scenario earthquake" basis that accounted for the largest earthquakes expected in the area around the plant. A margin is further added to the predicted ground motions to provide added robustness.

10) Have events in Japan changed our perception of earthquake risk to the nuclear plants in the US?

The NRC continues to determine that US nuclear plants are safe. This does not change the NRC's perception of earthquake hazard (i.e., ground motion levels) at US nuclear plants. It is too early to tell what the lessons from this earthquake are. The NRC will look closely at all aspects of response of the plants to the earthquake and tsunami to determine if any actions need to be taken in US nuclear plants and if any changes are necessary to NRC regulations.

11) Can significant damage to a nuclear plant like we see in Japan happen in the US due to an earthquake? Are the Japanese nuclear plants similar to US nuclear plants?

All US nuclear plants are built to withstand environmental hazards, including earthquakes and tsunamis. Even those nuclear plants that are located within areas with low and moderate seismic activity are designed for safety in the event of such a natural disaster. The NRC requires that safety-significant structures, systems, and components be designed to take into account even rare and extreme seismic and tsunami events. In addition to the design of the plants, significant effort goes into emergency response planning and accident management. This approach is called defense-in-depth.

The Japanese facilities are similar in design to some US facilities. However, the NRC has required modifications to the plants since they were built, including design changes to control hydrogen and pressure in the containment. The NRC has also required plants to have additional equipment and measures to mitigate damage stemming from large fires and explosions from a beyond-design-basis event. The measures include providing core and spent fuel pool cooling and an additional means to power other equipment on site.

12) What is the likelihood of the design basis or "SSE" ground motions being exceeded over the life of a nuclear plant?

The ground motions that are used as seismic design bases at US nuclear plants are called the Safe Shutdown Earthquake ground motion (SSE). In the mid to late 1990s, the NRC staff reviewed the potential for ground motions beyond the design basis as part of the Individual Plant Examination of External Events (IPEEE). From this review, the staff determined that seismic designs of operating nuclear plants in the US have adequate safety margins for withstanding earthquakes. Currently, the NRC is in the process of conducting GI-199 to again assess the resistance of US nuclear plants to earthquakes. Based on NRC's preliminary analyses to date, the mean probability of ground motions exceeding the SSE over the life of the plant for the plants in the Central and Eastern United States is less than about 1%.

It is important to remember that structures, systems and components are required to have "adequate margin," meaning that they must continue be able withstand shaking levels that are above the plant's design basis.

13) Which reactors are along coastal areas that could be affected by a tsunami?

Many nuclear plants are located in coastal areas that could potentially be affected by a tsunami. Two nuclear plants, Diablo Canyon and San Onofre, are on the Pacific Coast, which is known to have a tsunami hazard. Two nuclear plants on the Gulf Coast, South Texas and Crystal River, could also be affected by tsunami. There are many nuclear plants on the Atlantic Coast or on rivers that may be affected by a tidal bore resulting from a tsunami. These include St. Lucie, Turkey Point, Brunswick, Oyster Creek, Millstone, Pilgrim, Seabrook, Calvert Cliffs, Salem/Hope Creek, and Surry. Tsunami on the Gulf and Atlantic Coasts occur, but are very rare. Generally the flooding anticipated from hurricane storm surge exceeds the flooding expected from a tsunami for nuclear plants on the Atlantic and Gulf Coast. Regardless, all nuclear plants are designed to withstand a tsunami.

14) What is magnitude anyway? What is the Richter Scale? What is intensity?

An earthquake's magnitude is a measure of the strength of the earthquake as determined from seismographic observations. Magnitude is essentially an objective, quantitative measure of the size of an earthquake. The magnitude can be expressed in various ways based on seismographic records (e.g., Richter Local Magnitude, Surface Wave Magnitude, Body Wave Magnitude, and Moment Magnitude). Currently, the most commonly used magnitude measurement is the Moment Magnitude, Mw, which is based on the strength of the rock that ruptured, the area of the fault that ruptured, and the average amount of slip. Moment magnitude is, therefore, a direct measure of the energy released during an earthquake. Because of the logarithmic basis of the scale, each whole number increase in magnitude

represents a tenfold increase in measured amplitude; as an estimate of energy, each whole number step in the magnitude scale corresponds to the release of about 31 times more energy than the amount associated with the preceding whole number value.

The Richter magnitude scale was developed in 1935 by Charles F. Richter of the California Institute of Technology and was based on the behavior of a specific seismograph that was manufactured at that time. The instruments are no longer in use and the magnitude scale is, therefore, no longer used in the technical community. However, the Richter Scale is a term that is so commonly used by the public that scientists generally just answer questions about "Richter" magnitude by substituting moment magnitude without correcting the misunderstanding.

The intensity of an earthquake is a qualitative assessment of effects of the earthquake at a particular location. The intensity assigned is based on observed effects on humans, on human-built structures, and on the earth's surface at a particular location. The most commonly used scale in the US is the Modified Mercalli Intensity (MMI) scale, which has values ranging from I to XII in the order of severity. MMI of I indicates an earthquake that was not felt except by a very few, whereas MMI of XII indicates total damage of all works of construction, either partially or completely. While an earthquake has only one magnitude, intensity depends on the effects at each particular location.

15) How do magnitude and ground motion relate to each other?

The ground motion experienced at a particular location is a function of the magnitude of the earthquake, the distance from the fault to the location of interest, and other elements such as the geologic materials through which the waves pass.

16) What is Generic Issue 199 about?

GI-199 investigates the safety and risk implications of updated earthquake-related data and models. These data and models suggest that the probability for earthquake ground motion above the seismic design basis for some nuclear plants in the Central and Eastern United States, although is still low, is larger than previous estimates.

17) Does GI-199 provide rankings of US nuclear plants in terms of safety?

The NRC does not rank nuclear plants by seismic risk. The objective of the GI-199 Safety/Risk Assessment was to perform a conservative, screening-level assessment to evaluate if further investigations of seismic safety for operating reactors in the central and eastern US (CEUS) are warranted, consistent with NRC directives. The results of the GI-199 safety risk assessment

should not be interpreted as definitive estimates of plant-specific seismic risk because some analyses were very conservative making the calculated risk higher than in reality. The nature of the information used (both seismic hazard data and plant-level fragility information) make these estimates useful only as a screening tool.

18) What are the current findings of GI-199?

Currently operating nuclear plants in the US remain safe, with no need for immediate action. This determination is based on NRC staff reviews of updated seismic hazard information and the conclusions of the first stage of GI-199. Existing nuclear plants were designed with considerable margin to be able to withstand the ground motions from the "deterministic" or "scenario earthquake" that accounted for the largest earthquakes expected in the area around the plant. The results of the GI-199 assessment demonstrate that the probability of exceeding the design basis ground motion may have increased at some sites, but only by a relatively small amount. In addition, the probabilities of seismic core damage are lower than the guidelines for taking immediate action. Although there is not an immediate safety concern, the NRC is focused on assuring safety during even very rare and extreme events. Therefore, the NRC has determined that assessment of updated seismic hazards and plant performance should continue.

19) What do you mean by "increased estimates of seismic hazards" at nuclear plant sites?

Seismic hazard (earthquake hazard) represents the chance (or probability) that a specific level of ground motion could be observed or exceeded at a given location. Our estimates of seismic hazard at some Central and Eastern United States locations have changed based on results from recent research, indicating that earthquakes occurred more often in some locations than previously estimated. Our estimates of seismic hazard have also changed because the models used to predict the level of ground motion, as caused by a specific magnitude earthquake at a certain distance from a site, changed. The increased estimates of seismic hazard at some locations in the Central and Eastern United States were discussed in a memorandum to the Commission, dated July 26, 2006. (The memorandum is available in the NRC Agencywide Documents Access and Management System [ADAMS] under Accession No. ML052360044).

20) Does the Seismic Core Damage represent a measurement of the risk of radiation release or only the risk of core damage (not accounting for additional containment)?

Seismic core damage frequency is the probability of damage to the core resulting from a seismic initiating event. It does not imply either a meltdown or the loss of containment, which would be required for radiological release to occur. The likelihood of radiation release is far lower.

21) Where can I get current information about Generic Issue 199?

The public NRC Generic Issues Program (GIP) website (http://www.nrc.gov/about-nrc/regulatory/gen-issues.html) contains program information and documents, background and historical information, generic issue status information, and links to related programs. The latest Generic Issue Management Control System quarterly report, which has regularly updated GI-199 information, is publicly available at http://www.nrc.gov/reading-rm/doc-collections/generic-issues/quarterly/index.html. Additionally, the US Geological Survey provides data and results that are publicly available at http://earthquake.usgs.gov/hazards/products/conterminous/2008/.

22) Could an accident sequence like the one at Japan's Fukushima Daiichi nuclear plants happen in the US?

It is difficult to answer this question until we have a better understanding of the precise problems and conditions that faced the operators at Fukushima Daiichi. We do know, however, that Fukushima Daiichi Units 1-3 lost all offsite power and emergency diesel generators. This situation is called "station blackout." US nuclear power plants are designed to cope with a station blackout event that involves a loss of offsite power and onsite emergency power. The Nuclear Regulatory Commission's detailed regulations address this scenario. US nuclear plants are required to conduct a "coping" assessment and develop a strategy to demonstrate to the NRC that they could maintain the plant in a safe condition during a station blackout scenario. These assessments, proposed modifications to the plant, and operating procedures were reviewed and approved by the NRC. Several plants added additional AC power sources to comply with this regulation.

In addition, US nuclear plant designs and operating practices since the terrorist events of September 11, 2001, are designed to mitigate severe accident scenarios such as aircraft impact, which include the complete loss of offsite power and all on-site emergency power sources.

US nuclear plant designs include consideration of seismic events and tsunamis'. It is important not to extrapolate earthquake and tsunami data from one location of the world to another when evaluating these natural hazards. These catastrophic natural events are very region- and location-specific, based on tectonic and geological fault line locations.

From: LIA05 Hoc
Sent: Tuesday, March 22, 2011 6:53 PM
To: Feighert, Dan
Subject: RE: Log for FEMA Liaison 03212011

Mr. Feighert,

My apologies, I did not know.

Bonnie Sheffield Dayshift 0700-1500
Ken Wierman Nightshift 1500-2300
FEMA REP Liaison
NRC Operations Center
(301) 816-5187

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From: Feighert, Dan [mailto:dan.feighert@dhs.gov]
Sent: Tuesday, March 22, 2011 6:51 PM
To: LIA05 Hoc
Subject: RE: Log for FEMA Liaison 03212011

That is the document I used to provide my initial info when they came back just wanting bullets.
Thanks

From: prvs=0554e15a5=LIA05.Hoc@nrc.gov [mailto:prvs=0554e15a5=LIA05.Hoc@nrc.gov] **On Behalf Of** LIA05 Hoc
Sent: Tuesday, March 22, 2011 4:46 PM
To: Feighert, Dan
Subject: RE: Log for FEMA Liaison 03212011

Mr. Feighert,

No they did not add bullets because of the probable level of this briefing. I will forward you the Q&A Document if they want to use some of the responses from that document. This would ensure that everyone is stating the same message.

Bonnie Sheffield Dayshift 0700-1500
Ken Wierman Nightshift 1500-2300
FEMA REP Liaison
NRC Operations Center
(301) 816-5187

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From: Feighert, Dan [mailto:dan.feighert@dhs.gov]
Sent: Tuesday, March 22, 2011 6:44 PM

PPP/377

To: LIA05 Hoc
Subject: RE: Log for FEMA Liaison 03212011

Thanks for the very fast turn around.
I am guessing they had nothing to add. I was hoping they had a couple other bullets.
I took out a couple of bullets that stated same info.

From: prvs=0554e15a5=LIA05.Hoc@nrc.gov [mailto:prvs=0554e15a5=LIA05.Hoc@nrc.gov] **On Behalf Of** LIA05 Hoc
Sent: Tuesday, March 22, 2011 4:35 PM
To: Feighert, Dan
Cc: LIA06 Hoc; LIA08 Hoc; Andrew Seward; Harry Sherwood; John Simpson; Michelle Ralston; Steve Horwitz; Tim Greten; Vanessa E. Quinn
Subject: RE: Log for FEMA Liaison 03212011

Mr. Feighert,

Had the seismologists in the Reactor Safety Team review the document and they stated that it is consistent with the Seismology Q&A Responses however, I and they noted that the bullets restate the same information. Was this quick enough?

Bonnie Sheffield Dayshift 0700-1500
Ken Wierman Nightshift 1500-2300
FEMA REP Liaison
NRC Operations Center
(301) 816-5187

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From: Feighert, Dan [mailto:dan.feighert@dhs.gov]
Sent: Tuesday, March 22, 2011 6:07 PM
To: LIA05 Hoc
Subject: RE: Log for FEMA Liaison 03212011

Ken Wierman
Please review and run by NRC the attached Talking points for Design Basis Threat.
This is high priority and is needed ASAP as
Lai Sun is waiting.
Talking points are for Tim Manning
Thanks so much
Dan
303-919-2439

From: prvs=0554e15a5=LIA05.Hoc@nrc.gov [mailto:prvs=0554e15a5=LIA05.Hoc@nrc.gov] **On Behalf Of** LIA05 Hoc
Sent: Tuesday, March 22, 2011 4:55 AM
To: Dan Feighert; Andrew Seward; Harry Sherwood; John Simpson; Michelle Ralston; Steve Horwitz; Tim Greten; Vanessa E. Quinn
Subject: Log for FEMA Liaison 03212011

For your review.

From: Feighert, Dan <dan.feighert@dhs.gov>
Sent: Tuesday, March 22, 2011 6:22 PM
To: LIA05 Hoc
Subject: RE: Log for FEMA Liaison 03212011

Ken
If they (NRC) has better bullets please have them include.
thanks

From: prvs=0554e15a5=LIA05.Hoc@nrc.gov [mailto:prvs=0554e15a5=LIA05.Hoc@nrc.gov] **On Behalf Of** LIA05 Hoc
Sent: Tuesday, March 22, 2011 4:10 PM
To: LIA06 Hoc; LIA08 Hoc
Cc: Dan Feighert
Subject: FW: Log for FEMA Liaison 03212011
Importance: High

Who can I transmit this to for accuracy? Please advise. This is a priority.

Bonnie Sheffield Dayshift 0700-1500
Ken Wierman Nightshift 1500-2300
FEMA REP Liaison
NRC Operations Center
(301) 816-5187

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From: Feighert, Dan [mailto:dan.feighert@dhs.gov]
Sent: Tuesday, March 22, 2011 6:07 PM
To: LIA05 Hoc
Subject: RE: Log for FEMA Liaison 03212011

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303-919-2439

From: prvs=0554e15a5=LIA05.Hoc@nrc.gov [mailto:prvs=0554e15a5=LIA05.Hoc@nrc.gov] **On Behalf Of** LIA05 Hoc
Sent: Tuesday, March 22, 2011 4:55 AM
To: Dan Feighert; Andrew Seward; Harry Sherwood; John Simpson; Michelle Ralston; Steve Horwitz; Tim Greten; Vanessa E. Quinn
Subject: Log for FEMA Liaison 03212011

For your review.

PPP/378

From: LIA08 Hoc
Sent: Tuesday, March 22, 2011 6:17 PM
To: LIA05 Hoc; LIA06 Hoc
Subject: RE: Log for FEMA Liaison 03212011

Ken,

Best bet would be to walk this over to the RST and have them look at it.

Nathan

From: LIA05 Hoc
Sent: Tuesday, March 22, 2011 6:10 PM
To: LIA06 Hoc; LIA08 Hoc
Cc: Dan Feighert
Subject: FW: Log for FEMA Liaison 03212011
Importance: High

Who can I transmit this to for accuracy? Please advise. This is a priority.

Bonnie Sheffield Dayshift 0700-1500
Ken Wierman Nightshift 1500-2300
FEMA REP Liaison
NRC Operations Center
(301) 816-5187

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From: Feighert, Dan [mailto:dan.feighert@dhs.gov]
Sent: Tuesday, March 22, 2011 6:07 PM
To: LIA05 Hoc
Subject: RE: Log for FEMA Liaison 03212011

Ken Wierman
Please review and run by NRC the attached Talking points for Design Basis Threat.
This is high priority and is needed ASAP as
Lai Sun is waiting.
Talking points are for Tim Manning
Thanks so much
Dan
303-919-2439

From: prvs=0554e15a5=LIA05.Hoc@nrc.gov [mailto:prvs=0554e15a5=LIA05.Hoc@nrc.gov] **On Behalf Of** LIA05 Hoc
Sent: Tuesday, March 22, 2011 4:55 AM
To: Dan Feighert; Andrew Seward; Harry Sherwood; John Simpson; Michelle Ralston; Steve Horwitz; Tim Greten; Vanessa E. Quinn
Subject: Log for FEMA Liaison 03212011

For your review.

From: LIA05 Hoc
Sent: Tuesday, March 22, 2011 6:55 AM
To: Dan Feighert; Andrew Seward; Harry Sherwood; John Simpson; Michelle Ralston; Steve Horwitz; Tim Greten; Vanessa E. Quinn
Subject: Log for FEMA Liaison 03212011
Attachments: Log for FEMA Liaison 03212011.docx

For your review.

FEMA Liaison LOG
NRC Operations Center
DATE: March 21, 2011

TIME	ENTRY
0630	Bonnie Sheffield assumed the FEMA Liaison Watch
	Briefing /Discussion on the events of the last 24 hrs
0640	Transmitted NRC Status report to FEMA Contact list
	Transmitted FEMA Liaison Log to FEMA Contact list
0730	Transmitted Public meeting notice to FEMA Contact list, FEMA RAC List and Mr. Kish
0811	NRC State Liaison asked if the FEMA SITREP can be distributed to the public. Transmitted the question to FEMA attorneys and Ms Quinn, Mr. Sherwood, and Mr. Feighert.
0843	Anthony DeFelice answered the question of the FEMA SITREP to be distributed to the public. It cannot be released to the public but can be release to the Federal Family.
	Ms. Quinn requested for Harry Nash to be added to the FEMA Liaison list.
0851	Coordinated with Joe Anderson and Security to add Harry Nash name to the FEMA Liaison List.
0900	NRC Public meeting
0911	Transmitted the Duties and Responsibility to Dan Feighert per his request.
0935	Received answer From Paul ward for question from **March 18 2011** regarding Alpha partials on baggage. Forward message to Federal, State Liaisons
1038	Transmitted EPZ paper to NRC Protective Measures Team
1102	Requested For Mr. Sherwood to call -about donations from private companies
1137	Called Mr. DeFelice to see who was in the office , Al Coons is the only Management that is in the office ,all other s are at FEMA HQ in DC for meeting on Thursday
1138	Requested For Mr. Coons to call - about donations from private companies
1159	AL Coons called and stated he did not know who in FEMA or other agencies that would take care of the donations from private companies. Suggested to contact Marc Madden at NRCC
1222	Marc Madden informed the Ops center that there is not any consolidated effort in the donations of products to the Japan event
1340	Received an email requesting information on the most likely threat/vulnerability to each of our nuclear power plants in Region VI
1500	Ken Wierman assumed the FEMA Liaison Watch.
1501	Attended Interagency conference call hosted by Mr. Michael Byrne.
1650	Received the REPP SITRep and forwarded it to the Federal Liaison.
1830	Transmitted the 1800 NRC Stats Update.
2030	Monitored NRC ET/Japan Team Conference Call. Items were discussions regarding the confirmation of smoke or steam emitting from the plant, an intergovernmental decision on the source term used for projections and initiation of discussions regarding relaxing the 50 mile US Personnel evacuation zone. Discussions involved getting a recommendation from IAEA and if relaxed, only to the 20km distance as recommended by Japan.
2300	Ken Wierman secured the FEMA Liaison Watch
	NO FURTHER ENTRIES THIS DATE

From: OST05 Hoc
Sent: Tuesday, March 22, 2011 4:29 PM
To: Ryan, Michelle
Subject: FW: PRESS RELEASE From NY GOVERNOR CUOMO Re: NRC MEETING TODAY

Importance: High

-----Original Message-----
From: McNamara, Nancy
Sent: Tuesday, March 22, 2011 4:06 PM
To: LIA04 Hoc; OST05 Hoc
Cc: Turtil, Richard; Piccone, Josephine; Virgilio, Rosetta; Tifft, Doug
Subject: PRESS RELEASE From NY GOVERNOR CUOMO Re: NRC MEETING TODAY
Importance: High

Please be advised. The purpose of this email is for information only to the Liaison Team and FSME. This morning, NRC staff met with the New York Lieutenant Governor and other State officials to discuss the Japanese event and the effects of a seismic event at Indian Point Generating Station. The Governor's Office just released the press release below summarizing their interpretation of what they heard at the meeting. NRR has the lead for reviewing the content of the press release for its accuracy.

GOVERNOR CUOMO ANNOUNCES NUCLEAR REGULATORY COMMISSION HAS AGREED TO MAKE INDIAN POINT THE TOP PRIORITY IN NUCLEAR PLANT SEISMIC RISK REVIEW

Governor Andrew M. Cuomo today announced that the U.S. Nuclear Regulatory Commission (NRC) has pledged to make Indian Point its first and top priority in its review of seismic risk at 27 nuclear plants throughout the country. At the request of the Cuomo Administration, the NRC has agreed to a cooperative review of Indian Point as a joint effort between the NRC and New York State.

As a result of the meeting today at NRC headquarters in Maryland between Lieutenant Governor Robert Duffy, Director of State Operations Howard Glaser, and top NRC officials, the NRC has also agreed to sign a memorandum of understanding that will:

- Share federal data regarding seismic risk specific to Indian Point with New York technical experts
- Include New York experts as part of the NRC on-site inspection team that will evaluate Indian Point with regard to seismic risk

In addition, NRC Chair Greg Jaczko has agreed to conduct a personal site inspection of Indian Point with New York officials.

"It is essential that the NRC move quickly to answer the significant and long-standing safety questions surrounding Indian Point," Governor Cuomo said. "We appreciate the NRC agreeing to move swiftly and we look forward to working closely with them on this issue to protect the health and safety of New Yorkers."

PPP\379

"I thank the NRC for hosting us today and for recognizing the legitimate concerns that exist regarding Indian Point," Lieutenant Governor Duffy said. "Seismic activity is a serious concern regarding the facility and we will now work with the federal government to make sure we get answers for the people of New York."

Indian Point is located in Westchester County, within fifty miles of where more than 20 million people live and work. Among its other structural and safety flaws, the facility is situated near a fault line and concerns have been raised about whether it was designed to withstand the seismic activity that could result from an earthquake.

Governor Cuomo has long been an opponent of Indian Point and has worked to prevent the federal relicensing of the facility. Governor Cuomo and senior officials will continue to work with the NRC to monitor the status of Indian Point and protect residents.

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Additional news available at www.governor.ny.gov
New York State | Executive Chamber | press.office@exec.ny.gov |
518.474.8418

From: PMT01 Hoc
Sent: Tuesday, March 22, 2011 5:33 PM
To: Hoc, PMT12; PMT02 Hoc; PMT07 Hoc
Subject: FW: RESPONSE - Richland Safe Haven

FYI

From: Weber, Michael
Sent: Tuesday, March 22, 2011 5:14 PM
To: PMT01 Hoc
Cc: OST02 HOC; ET01 Hoc; Bailey, Marissa; Frazier, Alan; Kinneman, John; Haney, Catherine; Evans, Michele
Subject: RESPONSE - Richland Safe Haven

Seems like we need to know where the 20% enriched uranium is right now.

From: Haney, Catherine
Sent: Tuesday, March 22, 2011 9:07 AM
To: Bailey, Marissa; Kinneman, John
Cc: Habighorst, Peter; Weber, Michael
Subject: Re: Richland Safe Haven

Please make the ET is the Ops center aware of this information. Use the Liaison team if you can't get to ET via HOO.

From: Bailey, Marissa
To: Kinneman, John; Haney, Catherine
Cc: Habighorst, Peter
Sent: Tue Mar 22 08:56:40 2011
Subject: FW: Richland Safe Haven

FYI – There's of shipment of 20% enriched research reactor fuel from France to Japan that now the Japanese is not ready to accept. For a while, there was discussion of whether the fuel could go to AREVA-Richland for short term storage, but that is no longer a consideration. We don't know what's been worked out, but will let you know if we hear more.

From: Habighorst, Peter
Sent: Tuesday, March 22, 2011 7:12 AM
To: Bailey, Marissa
Cc: Owens, Janice; Horn, Brian; Tuttle, Glenn
Subject: FW: Richland Safe Haven

From: Tuttle, Glenn
Sent: Tuesday, March 22, 2011 7:11 AM
To: Horn, Brian; Habighorst, Peter
Subject: FW: Richland Safe Haven

fyi

PPP/380

From: NOSS Dan (AREVA) [mailto:Dan.Noss@areva.com]
Sent: Monday, March 21, 2011 6:29 PM
To: Tuttle, Glenn
Subject: Richland Safe Haven

Glenn,

We have bee advised that the shipment of 20% research reactor fuel bound for Japan from France will not need to come to Richland for short term storage. I am not certain what has been worked out, but Areva Richland is not in the mix.

Thanks for your support,

Dan Noss

Supervisor, MC&A

AREVA NP Inc.

An AREVA and Siemens Company

2101 Horn Rapids

Road Richland, WA 99354

Phone: 509-375-8380

Fax: 509-375-8707

dan.noss@areva.com

From: OST05 Hoc
Sent: Tuesday, March 22, 2011 4:56 PM
To: Wittick, Brian; Andersen, James
Cc: McNamara, Nancy; Sanfilippo, Nathan
Subject: FW: Request from MA for RI to Meet w/Governor

Importance: High

Brian,
Please see request below from Region I requesting assistance with coordination of a meeting with the Governor of Massachusetts.
Nathan suggested that in light of the NY meeting today Region I coordinate this through you.
Will you be able to assist Region I/ Nancy McNamara with this?

Thanks
Michelle

Michelle Ryan
State Liaison – Liaison Team
Incident Response Center

From: McNamara, Nancy
Sent: Tuesday, March 22, 2011 4:40 PM
To: LIA04 Hoc; OST05 Hoc
Subject: Request from MA for RI to Meet w/Governor
Importance: High

This afternoon, the Governor of Massachusetts has requested a meeting with him and his staff and the NRC to discuss the event in Japan, seismic study (GI-199) and spent fuel pools. The Governor stated that the level of participation could be at the Regional level with experts to support the information sharing session.

The RI Regional Administrator is available to support such a meeting with assistance from subject matter experts from our HQ staff.

Would you like us to coordinate this request through the EDO's office or through the Liaison Team?

Nancy

PPP/381

From: Foggie, Kirk
Sent: Tuesday, March 22, 2011 9:31 PM
To: LIA03 Hoc
Subject: RE: Who from DOE is in in the Ops center? Thanks (eom)

No. Just clearing something up over here with the DOE attaché.

Thanks.

Kirk

And who is on is LIA2&3 right now?

From: LIA03 Hoc
Sent: Tuesday, March 22, 2011 9:24 PM
To: Foggie, Kirk
Subject: RE: Who from DOE is in in the Ops center? Thanks (eom)

I think their names are Dave Freshwater and Bill Froh. Is there someone you need us to get in contact with? They posted a message at their workstation saying to call DOE HQ 202-586-8100 if no one is on shift.

Lauren

From: Foggie, Kirk
Sent: Tuesday, March 22, 2011 9:21 PM
To: LIA03 Hoc; LIA02 Hoc
Subject: RE: Who from DOE is in in the Ops center? Thanks (eom)

Can you tell me who has been there?

From: LIA03 Hoc
Sent: Tuesday, March 22, 2011 9:20 PM
To: Foggie, Kirk; LIA02 Hoc
Subject: RE: Who from DOE is in in the Ops center? Thanks (eom)

No one.

From: Foggie, Kirk
Sent: Tuesday, March 22, 2011 9:20 PM
To: LIA02 Hoc
Cc: LIA03 Hoc
Subject: Who from DOE is in in the Ops center? Thanks (eom)

PPP/382

From: Morris, Scott
Sent: Tuesday, March 22, 2011 6:41 AM
To: ET05 Hoc
Subject: FW: Emailing: Fukishima Daiichi Summary-0521 EDT 3-22-2011.pptx
Attachments: Fukishima Daiichi Summary-0521 EDT 3-22-2011.pptx

Need about 5 copies ASAP

-----Original Message-----
From: ET02 Hoc
Sent: Tuesday, March 22, 2011 6:30 AM
To: Morris, Scott
Subject: Emailing: Fukishima Daiichi Summary-0521 EDT 3-22-2011.pptx

The message is ready to be sent with the following file or link attachments:

Fukishima Daiichi Summary-0521 EDT 3-22-2011.pptx

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

PPP/383

Fukushima Daiichi Status Summary

Unit	06:00 EDT 03/22/2011 - (19:00 JDT 3/22/2011) Update		Priority
1	Core	Damaged; RCS pressure unknown; RPV level ~1/2 TAF; fire truck providing seawater to core spray line	4
	Containment	Primary - functional; Secondary – lost during hydrogen explosion	
	Spent Fuel Pool	292 bundles (GEH); margin 127 days (Monninger); area temp <100 C	
2	Core	Damaged; RCS pressure unknown; RPV level ~1/2 TAF; fire truck providing seawater to recirc line; offsite power restored to load-side power panel (NISA); condition of pump motors and instrumentation being evaluated (IAEA)	3
	Containment	Primary – integrity unknown (possible torus damage); Secondary - blowout panel opened in side of reactor building to reduce H2 buildup; smoke (steam?) coming from hole	
	Spent Fuel Pool	587 bundles (GEH); time margin 39 days (Monninger); area temp <100 C	
3	Core	Damaged; RCS pressure unknown; RPV level ~2/3 TAF; fire truck providing seawater to recirc line	1
	Containment	Primary – integrity unknown; Secondary - lost during hydrogen explosion	
	Spent Fuel Pool	514 bundles (GEH); water sprayed from ground several times; fuel likely uncovered	
4	Spent Fuel Pool	1201 to1331 bundles in SFP (GEH & NISA); pool likely dry at one point causing significant fuel damage; water sprayed into pool to refill; area temp <100 C; external elec cable now connected to power center	2
5	Core	Shutdown since 1/3/11; now in cold shutdown; RPV intact; RPV level +164 cm>TAF (IAEA); offsite electrical power restored (NISA); RHR providing cooling	5
	Spent Fuel Pool	950 bundles (GEH); pool temp 42 C (JAIF); RHR providing cooling	
6	Core	Shutdown since 8/14/10; RPV press 7.9 atm (IAEA); RPV level +175cm>TAF (IAEA); 2 EDGs avail; RHR providing cooling	6
	Spent Fuel Pool	876 bundles (GEH); pool temp 36 C (JAIF); RHR providing cooling	
Common Spent Fuel Pool		6,000 bundles (GEH) maintained at 57 C (NISA); sprayed pool on 3/21 (IAEA)	7

From: LIA02 Hoc
Sent: Tuesday, March 22, 2011 9:03 AM
To: RST01 Hoc; PMT01 Hoc; Hoc, PMT12; LIA08 Hoc; LIA06 Hoc; LIA03 Hoc
Subject: Latest update from JAIF

http://www.jaif.or.jp/english/news_images/pdf/ENGNEWS01_1300798100P.pdf

PPP/384

From: Hart, Ken
To: Akstulewicz, Brenda; Bavol, Rochelle; Belmore, Nancy; Brenner, Eliot; Poole, Brooke; Burns, Stephen; Hart, Ken; Hayden, Elizabeth; Joosten, Sandy; Laufer, Richard; Leeds, Eric; Mamish, Nader; Mayberry, Theresa; Muessle, Mary; Powell, Amy; Pulley, Deborah; Quesenberry, Jeannette; RidsEdoDraftSrmVote Resource; RidsOgcMailCenter Resource; Schmidt, Rebecca; Shea, Pamela; Vietti-Cook, Annette
Subject: FW: VOTE SHEET FOR COMGBJ-11-0002 (NRC Actions Following the Events in Japan))
Date: Tuesday, March 22, 2011 7:30:11 AM
Attachments: WDM-cmt-COMGBJ11-0002 Original Signature.pdf
image003.png

COMGBJ-11-0002 – NRC ACTIONS FOLLOWING THE EVENTS IN JAPAN

REL

Approved with comments.

Ken

From: Crawford, Carrie
Sent: Monday, March 21, 2011 6:10 PM
To: Wright, Darlene; Baggett, Steven; Batkin, Joshua; Blake, Kathleen; Bozin, Sunny; Bradford, Anna; Bubar, Patrice; Bupp, Margaret; Chairman Temp; Clark, Lisa; Coggins, Angela; Cordes, John; Davis, Roger; Fopma, Melody; Franovich, Mike; Gibbs, Catina; Hart, Ken; Harves, Carolyn; Herr, Linda; Hipschman, Thomas; KLS Temp; Kock, Andrea; Lepre, Janet; Loyd, Susan; Mamish, Nader; Marshall, Michael; Monninger, John; Orders, William; Pace, Patti; Poole, Brooke; Reddick, Darani; Laufer, Richard; Bavol, Rochelle; Rothschild, Trip; Savoy, Carmel; Sharkey, Jeffry; Shea, Pamela; Snodderly, Michael; Sosa, Belkys; Speiser, Herald; Svinicki, Kristine; Temp, WCO; Temp, WDM; Thoma, John; Warren, Roberta; Zorn, Jason; Apostolakis, George; Temp, GEA; Tadesse, Rebecca; Castleman, Patrick; Montes, David; Dhir, Neha; Adler, James; Jimenez, Patricia; Muessle, Mary; Nieh, Ho; Ostendorff, William; Warnick, Greg; Pearson, Laura; Lui, Christiana; Lisann, Elizabeth
Cc: Lewis, Antoinette; Magwood, William
Subject: RE: VOTE SHEET FOR COMGBJ-11-0002 (NRC Actions Following the Events in Japan))

Please see Commissioner Magwood's vote and attached edits on COMGBJ-11-0002. Thanks

From: Wright, Darlene
Sent: Monday, March 21, 2011 11:30 AM
Cc: Lewis, Antoinette
Subject: VOTE SHEET FOR COMGBJ-11-0002 (NRC Actions Following the Events in Japan))

The ADAMS Accession # for the SECY is unavailable at this time.

PPP/385

RESPONSE SHEET

TO: Annette Vietti-Cook, Secretary

FROM: COMMISSIONER MAGWOOD

SUBJECT: COMGBJ-11-0002 – NRC ACTIONS FOLLOWING THE EVENTS IN JAPAN

Approved X Disapproved _____ Abstain _____

Not Participating _____

COMMENTS: Below ___ Attached X None ___

I approve COMGBJ-11-0002 as edited in the attached.

SIGNATURE

21 March 2011
DATE

Entered on "STARS" Yes X No ___

COMGBJ-11-0002

March 21, 2011

MEMORANDUM TO: Commissioner Svinicki
Commissioner Apostolakis
Commissioner Magwood
Commissioner Ostendorff

FROM: Chairman Jaczko /RA/

SUBJECT: NRC ACTIONS FOLLOWING THE EVENTS IN JAPAN

The tragic events in Japan have reinforced the importance of this agency's mission and efforts. The NRC's existing licensing and oversight process have provided us with a robust framework for assuring safety at our existing facilities. I also believe that one of our greatest assets as an agency is our ability to analyze and learn from new information. This tragedy requires us to do just that. Therefore, I ask my colleagues to join me in directing the Executive Director for Operations to establish a senior level agency task force to conduct a methodical and systematic review of our processes and regulations to determine whether the agency should make additional improvements to our regulatory system and make recommendations to the Commission for its policy direction. I believe the review must necessarily unfold with near term and then longer term objectives.

Near Term Review

- This task force should evaluate currently available technical and operational information from the events that have occurred at the Fukushima Daiici nuclear complex in Japan to identify near term/immediate operational or regulatory issues affecting domestic operating reactors of all designs, including their spent fuel pools, in areas such as protection against earthquake, tsunami, flooding, hurricanes; station blackout and a degraded ability to restore power; severe accident mitigation; emergency preparedness; and combustible gas control.
- The task force should develop recommendations, as appropriate, for changes to inspection procedures and licensing review guidance, and recommend whether generic communications, orders, or other regulatory requirements are needed.
- The task force efforts should be informed by some stakeholder input but should be independent of industry efforts.
- The report would be released to the public ~~per normal~~ subsequent to its approval by the Commission ~~processes~~.

To ensure the Commission is both kept informed of these efforts and called upon to resolve any policy recommendations that surface, I believe the task force should, at a minimum, be prepared to brief the Commission on a 30 day quick look report; on the status of the ongoing near term review at approximately a 60 day interval; and then on the 90 day culmination of the near term efforts. Additional specific subject matter briefings and additional voting items that request Commission policy direction may also be added during the Commission's agenda

planning meetings and thus, the staff should be prepared in advance to adapt to the Commission's requests following those agenda planning sessions in this dynamic environment.

Longer Term Review

- The task force's longer term review should begin as soon as NRC has sufficient technical information from the events in Japan with the goal of no later than the completion of the 90 day near term report, and the task force should provide updates on the beginning of the longer term review at the 30 and 60 day status updates.
- This effort would include specific information on the sequence of events and the status of equipment during the duration of the event.
- The task force should evaluate all technical and policy issues related to the event to identify additional research, generic issues, changes to the reactor oversight process, rulemakings, and adjustments to the regulatory framework that should be conducted by NRC.
- The task force should evaluate interagency issues such as emergency preparedness.
- Applicability of the lessons learned to non-operating reactor and non-reactor facilities should also be explored.
- During the review, the task force should receive input from and interact with all key stakeholders.
- The task force should provide a report with recommendations, as appropriate, to the Commission within six months from the start of the evaluation for Commission policy direction.
- The report would be released to the public ~~per normal~~ subsequent to its approval by the Commission ~~processes.~~
- Before beginning work on the longer term review, staff should provide the Commission with estimated resource impacts on other regulatory activities.

The proposal described above is intended to provide high-level guidance to a new agency task force. I look forward to reaching Commission consensus on an appropriate approach on this important issue as soon as possible.

SECY, please track.

cc: CFO
EDO
OGC
SECY

From: Brooke Smith <brookegsmith@gmail.com>
Sent: Tuesday, March 22, 2011 3:26 AM
To: chuck.castro@nrc.gov; liao2.hoc@nrc.gov; LIA03 Hoc
Subject: status table
Attachments: Fukushima Daiichi Status Table 22 March[1].docx

Please provide the attached status table to the ET. Thanks, Brooke

PPP/386

Status of Fukushima Daiichi Nuclear Power Station – Units 1 – 6

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Reactor Vessel (Steel Containment)	Unknown	Unknown	Unknown	N/A	Intact	Intact
Shutdown	Yes	Yes	Yes	Defueled	Core in Vessel	Core in Vessel
Primary (Cement) Containment	Stable	Some questions re: stability	Stable	Stable	Stable	Stable
Cooling	Seawater	Seawater	Seawater	N/A	Normal	Normal
Spent Fuel Pool		Dark smoke visible	Dark smoke visible			
Water	Unknown	Unknown	Unknown – likely dry	Unknown – likely dry	Normal	Normal
Status	Roof Collapse	Secondary Opening	Roof Collapse	Roof Collapse	Secondary Intact	Secondary Intact

(22MAR2011; 0415pm JST)

From: ET02 Hoc
Sent: Tuesday, March 22, 2011 12:50 PM
To: LIA02 Hoc; LIA03 Hoc
Subject: FW: Blackberry devices for Japan

From: Heard, Robert
Sent: Tuesday, March 22, 2011 12:07 PM
To: ET02 Hoc
Subject: Blackberry devices for Japan

After sending out my earlier message, I have been in contact with Jack Geissner, RIII. He would prefer that we deactivate his device on Thursday as late as possible so that we can minimize the amount of time he is without messaging services. I would recommend the same for Marie Miller, RI.
However, we need to make sure that we get the devices prepared early enough for one of the HQ staff members to take it with them.
If you can plan and let me know the latest time that someone traveling Thursday will be able to pick up the devices from the Operations Center, I can schedule these two devices to be deactivated.

Robert Heard Jr.
OIS/ICOD/ISPT
(301)415-6393
Robert.Heard@nrc.gov

PPP/387

From: Weber, Michael
Sent: Tuesday, March 22, 2011 1:53 PM
To: ET07 Hoc; ET05 Hoc
Subject: FYI - CLOSEOUT OF RELAXATION CRITERIA
Attachments: Relaxing protective action criteria EDITS 03-22-2011.doc

Melissa – please print copies of this and our response on the "What may we be missing" question for the ET members for turnover.

Thanks

From: Hoc, PMT12
Sent: Tuesday, March 22, 2011 1:01 PM
To: Jaczko, Gregory
Cc: Virgilio, Martin; Weber, Michael; Johnson, Michael; Miller, Charles; Moore, Scott; Cool, Donald; Tappert, John; Borchardt, Bill; Wiggins, Jim; Carpenter, Cynthia; Ordaz, Vonna; Batkin, Joshua; Coggins, Angela; Lubinski, John; Zimmerman, Roy; FOIA Response.hoc Resource; PMT03 Hoc; Lewis, Robert
Subject:

Chairman,

Please see the requested information regarding the process for relaxing protective action recommendations.

PMT

PPP/388

From: Hoc, PMT12
Sent: Tuesday, March 22, 2011 1:04 PM
To: PMT03 Hoc
Subject: FW:
Attachments: Relaxing protective action criteria EDITS 03-22-2011.doc

I sent this to you...please put in the Chronology. Thank.s

From: Hoc, PMT12
Sent: Tuesday, March 22, 2011 1:01 PM
To: Jaczko, Gregory
Cc: Virgilio, Martin; Weber, Michael; Johnson, Michael; Miller, Charles; Moore, Scott; Cool, Donald; Tappert, John; Borchardt, Bill; Wiggins, Jim; Carpenter, Cynthia; Ordaz, Vonna; Batkin, Joshua; Coggins, Angela; Lubinski, John; Zimmerman, Roy; FOIA Response.hoc Resource; PMT03 Hoc; Lewis, Robert
Subject:

Chairman,

Please see the requested information regarding the process for relaxing protective action recommendations.

PMT

Q: What are the criteria that the NRC would use to relax its previous protective action recommendation.

A: Brief response: Within the United States the decision to relax a protective action decision is based on confidence that any significant additional release is unlikely and on actual environmental measurements obtained and analyzed by the Federal Radiological Monitoring and Assessment Center (FRMAC) and that the plant is in a stable condition. These decisions are generally not made until the radioactivity release has been terminated and the source of the release is under control. The primary criteria for the decision to relocate a population from the affected area or allow re-entry to the affected area would be protective action guidance provided by the Environmental Protection Agency in its "Manual of Protective Action Guides and Protective Actions for Nuclear Incidents," EPA 400-R-92-001, May 1992. Generally, re-entry would not be allowed until the projected dose (based on actual measurements) due to ground deposition was less than 2 rem in the first year, or limiting doses as defined for the second through 50 years.

Explanation

For events which occur at nuclear facilities licensed by the Nuclear Regulatory Commission (NRC), the radiological annex to the National Response Framework, (NRF) defines the relationships between the Federal, state, and local emergency response organizations. In the early phase of the emergency, the operator of the facility (licensee) is expected, amongst other actions, to assess the conditions and recommend evacuation or sheltering protective actions to the affected state and local emergency response organizations. These protective actions recommendations may be based on plant status and prognosis, the results of radiological assessments and projections, or a combination of both. The NRC performs independent assessments of the conditions as a matter of regulatory oversight, and works with the licensee to resolve differences. The state and local

emergency response organizations consider the licensee's recommendation and decide upon the protective actions that will be implemented.

The early phase of the response ends when the radioactivity releases have been terminated, the plant is in a stable condition and the source of the radioactivity release is under control. The intermediate phase commences at this point.

Once the protective action decision (and any subsequent revisions) has been implemented, the decision to relax the protective actions and allow public re-entry to the affected areas is based on reassurance of no further release and on actual measurements and samples obtained in the affected area. The FRMAC, along with the affected states and local organizations, perform this assessment as the basis for decisions regarding relaxation of the protective actions to allow re-entry. The agencies that comprise the Interagency FRMAC, by statute, have the monitoring and assessment assets necessary to accomplish these tasks. Although the NRC will have representatives at the FRMAC, the NRC is not the lead federal agency for environmental monitoring under the radiological annex to the NRF, the lead is EPA.

In the United States, the EPA has established protective action guides for the intermediate phase that requires that the general population be relocated outside of the affected area if the projected effective dose equivalent from external gamma radiation from ground deposition and the committed effective dose equivalent from inhalation from re-suspended materials exceeds 2 rem in the first year. Re-entry would generally not occur as long as the projected dose in the first year exceeds 2 rem. It is important to note that are post plume assessments are based on the results of actual field measurements and sampling results. In the context of the Japanese event, these principals would still be generally applicable, although US field assessment capability should be augmented with available Japanese data.

CRITERIA

1. Radioactivity releases have been terminated and the source of the radioactivity release is under control.

2. Decision to allow public re-entry is based on field measurements and samples obtained from the affected area once the above criteria are satisfied.

3. Re-entry would not generally occur as long as the projected dose in the first years exceeds 2 rem, or exceeds 0.5 rem in the second year, or exceeds 5 rem in 50 years, depending on which case is most limiting.

M:\PMT\Relaxing protective action criteria.doc

From: Wiggins, Jim
Sent: Tuesday, March 22, 2011 3:08 PM
To: ET05 Hoc
Subject: Document2
Attachments: Doc2.docx

PPP/389

Japan Earthquake IPC Meeting

DATE: March 22, 2011

LOCATION: White House Situation Room

TIME: 4:30 - 6:00 p.m.

AGENDA

I. Welcome ..... NSS

II. Potassium Iodide Distribution in Japan ..... State/DOD

III. Voluntary Departures and Preparations for Higher Demand Signals ..... State/DOD/DHS

IV. Plume Modeling Sharing and Radiation Monitoring Capabilities (U.S. and Japan) ..... State/DOE

V. Humanitarian Efforts Needs Assessments ..... USAID/DOD

VI. Food Safety Monitoring and Communications .. State/FDA/USDA

VII. Previous Deputies Tasking Status ..... All

VIII. Open Discussion ..... All

IX. Conclusion and Way Ahead ..... NSS

From: Miller, Chris
Sent: Tuesday, March 22, 2011 7:58 AM
To: Monninger, John
Cc: ET05 Hoc; Morris, Scott; McDermott, Brian; Bowers, Anthony
Subject: RE: 4th bullet in charter

Ok Thanks

From: Monninger, John
Sent: Tuesday, March 22, 2011 7:09 AM
To: Miller, Chris
Cc: ET05 Hoc; Morris, Scott; McDermott, Brian
Subject: RE: 4th bullet in charter

I'm fine now with the 4th bullet of the charter relating to providing recommendations/assistance etc. Previously, we were pushing a rope and getting no where on providing assistance.

Things have significantly changed in the past 48 hours, and very productive dialogue in occurring.

From: Miller, Chris
Sent: Monday, March 21, 2011 10:28 PM
To: Monninger, John
Cc: ET05 Hoc; Morris, Scott; McDermott, Brian
Subject: 4th bullet in charter

Hi John,
Now the Commission meeting is over, is there anything we need to do to address your concern with bullet 4 of the charter? I am trying to see if there is anything you need the ET to do to address the concern (which I am not altogether certain I know all the details of-sorry, turnovers sometimes don't get all the details they should.)
chris

PPP/390

From: Shoop, Undine
Sent: Tuesday, March 22, 2011 7:57 AM
To: LIA03 Hoc
Subject: Re: Radiation Brief to Japan Travelers - 3/22/2011 at 3:30 p.m.

Yes we will be there.

From: LIA03 Hoc
To: Shoop, Undine
Cc: LIA02 Hoc
Sent: Tue Mar 22 06:30:38 2011
Subject: Radiation Brief to Japan Travelers - 3/22/2011 at 3:30 p.m.

Good morning Undine – Are you or someone in your branch available today, Tuesday, March 22, 2011 at 3:30 p.m. to provide a briefing on the to the travelers to Japan?

Warm regards,
Mugeh

PPP/391

From: OST05 Hoc
Sent: Tuesday, March 22, 2011 9:23 AM
To: LIA11 Hoc
Subject: FW: Federal Radiological Preparedness Coordinating Committee (FRPCC)
Attachments: image001.gif

FYI

From: McGrady-Finneran, Patricia
Sent: Tuesday, March 22, 2011 7:33 AM
To: Turtil, Richard; LIA04 Hoc; OST05 Hoc
Cc: Rivera, Alison
Subject: RE: Federal Radiological Preparedness Coordinating Committee (FRPCC)

Rich,

All press releases put out by OPA are distributed via "Lyris" (an NRC purchased listserver program). The list of email addresses on the OPA distribution for press releases is very extensive, encompassing 97 pages of email addresses. The State Liaison Officers and the Radiation Control Program Directors are all on the OPA press release distribution list. We also take care to notify Valerie Shannon in OPA when we have confirmed changes in State personnel to insure correct notification and delivery of the press releases. Other than sending out a "notice" that the press releases are coming, or phoning each State individually.

You know, it is very difficult to insure that "Press Release" notices or any other notices for that matter are announced or even opened. For example, on Friday, March 18th, I was tasked with mailing out a "Notice" regarding the March 21st Commission Briefing to all State Liaison Officers and Radiation Control Program Directors. Of all of the 118 emailed personnel contacted, only 16 opened their emails.

I don't know what else NRC can do other than what currently is being done, considering the amount of press releases sent out on a daily basis by NRC. I think the onus is on the States to open the emails that NRC sends out, provided that we have the correct contact information.

Please let me know if there is anything else I can assist you with.

Patricia McGrady-Finneran
Program Manager, USNRC
Division of Intergovernmental Liaison and Rulemaking (DILR)
Intergovernmental Liaison Branch (ILB)
Patricia.McGrady-Finneran@nrc.gov
Phone: (301) 415-2326
Fax: (301) 415-3502

From: Turtil, Richard
Sent: Monday, March 21, 2011 6:44 PM
To: McGrady-Finneran, Patricia; LIA04 Hoc; OST05 Hoc

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Cc: Rivera, Alison
Subject: RE: Federal Radiological Preparedness Coordinating Committee (FRPCC)

Patricia:

Per the attached, on 3/17, "the Federal Radiological Preparedness Coordinating Committee (RPCC) convened a short-notice meeting to discuss responses to the Japanese nuclear power plant emergency, and information coordination among Federal agencies about actions being taken here in the United States. Each Federal agency was asked to describe its current efforts, capabilities offered, and information needs. "

I am not certain who at NRC spoke to this group, but on page 4, the following bullet was communicated:

- **CRCPD would like an alert when NRC is putting out press releases. A disconnect exists between the State Liaison Officers and State officials.**

I'm not quite certain to whom or what to communicate. Any thoughts? My response/thinking:

RCPDs and SLOs and other state officials automatically receive NRC Press Releases. Anyone, including State agency personnel and all members of the public, wishing to automatically receive NRC press releases can receive them by signing up at the following NRC link: www.nrc.gov/xxx/yyy/zzz, etc.

What do you think? Do I have this right? (...and then I have to determine to whom this should go... maybe our federal liaison in the Operations Center.)

Rich

From: Rivera, Alison
Sent: Monday, March 21, 2011 12:44 PM
To: Turtil, Richard
Subject: FW: Federal Radiological Preparedness Coordinating Committee (FRPCC)

Rich – see bullet on page 4 regarding CRCPD and press releases – potential disconnect with SLOs and State officials.

From: OST05 Hoc
Sent: Monday, March 21, 2011 10:13 AM
To: Piccone, Josephine; Jackson, Deborah; Collins, Elmo; Dean, Bill; Heck, Jared; McCree, Victor; Pederson, Cynthia; Satorius, Mark; Barker, Allan; Browder, Rachel; Erickson, Randy; Logaras, Harral; Maier, Bill; McNamara, Nancy; Tifft, Doug; Trojanowski, Robert; Woodruff, Gena; Easson, Stuart; Flannery, Cindy; LIA04 Hoc; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta
Subject: FW: Federal Radiological Preparedness Coordinating Committee (FRPCC)

Forwarding meeting minutes from the Federal Radiological Preparedness Coordinating Committee (FRPCC) meeting.

DO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY.

Thanks,
Cindy Flannery
State Liaison – Liaison Team
NRC Incident Response Center

From: McCree, Victor
To: Leeds, Eric
Subject: RE: Japanese Event Response and Available Resources
Date: Tuesday, March 22, 2011 8:07:07 AM

Got it, thanks.

From: Leeds, Eric
Sent: Tuesday, March 22, 2011 7:49 AM
To: Sheron, Brian; Wiggins, Jim; Johnson, Michael; Haney, Catherine; Miller, Charles; Boyce, Thomas (OIS); Stewart, Sharon; Cohen, Miriam; Howell, Art; Pederson, Cynthia; McCree, Victor; Wert, Leonard; Dean, Bill; Lew, David; West, Steven; Collins, Elmo
Cc: Ash, Darren; Weber, Michael; Virgilio, Martin; Borchardt, Bill
Subject: FYI: Japanese Event Response and Available Resources

Please see message below. Feel free to share with your staff that are interested.

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Schwarz, Sherry **On Behalf Of** Leeds, Eric
Sent: Monday, March 21, 2011 6:03 PM
To: NRR Distribution
Subject: Japanese Event Response and Available Resources

I want to echo the Commission and Bill Borchardt's words of appreciation and admiration spoken of the staff during the Commission Meeting this morning. NRR has provided tremendous support over the last week, and we will continue our efforts in the weeks, months, and years to come.

In our continued efforts to assist with responding and centralizing information related to events in Japan, we've added a new feature to the homepage of the NRR internal SharePoint site, "Japan Event Information." All of the information under this title has been publicly released or has been approved to be used publicly in our responses to related questions that might arise. Included in the list is a link to the NRC public web site, "NRC Actions on Japan's Emergency," where you may find information related to NRC actions, including news releases, NRC Blog posts, Frequently Asked Questions (FAQs), and other related information and sources. Please be sure to check these resources frequently, as information is being updated daily.

In addition, I've assigned Bob Nelson, Deputy Director, Division of Operating Reactor Licensing (DORL), as the NRR Coordinator for External Communications related to NRR's response to the recent events in Japan. Assisting Nelson will be Sean Meighan and Quynh Nguyen from the NRR front office, Eric Thomas from Division of Inspection and Regional Support, Eric Oesterle from the Office of New Reactors and a communications "tiger team" formulated in DORL headed by Mike Markley. Harold Chernoff will also provide assistance as needed. Nelson and his team will be responsible for coordinating the development and review of related Qs & As and coordinating the response to related

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controlled correspondence tasked to NRR, including related 2.206 petitions.

Please forward all of your requests for support in this area, to Nelson, 301-415-1453.

Thank you all for your continued support!

Eric

- NRR SharePoint Site: http://portal.nrc.gov/edo/nrr/default.aspx
- NRC Public Website: NRC Actions on Japan's Emergency: http://www.nrc.gov/japan/japan-info.html

From: Stewart, Sharon
To: Leeds, Eric
Subject: Re: FYI: Japanese Event Response and Available Resources
Date: Tuesday, March 22, 2011 7:55:00 AM

Thanks!

From: Leeds, Eric
To: Sheron, Brian; Wiggins, Jim; Johnson, Michael; Haney, Catherine; Miller, Charles; Boyce, Thomas (OIS); Stewart, Sharon; Cohen, Miriam; Howell, Art; Pederson, Cynthia; McCree, Victor; Wert, Leonard; Dean, Bill; Lew, David; West, Steven; Collins, Elmo
Cc: Ash, Darren; Weber, Michael; Virgilio, Martin; Borchardt, Bill
Sent: Tue Mar 22 07:48:42 2011
Subject: FYI: Japanese Event Response and Available Resources

Please see message below. Feel free to share with your staff that are interested.

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Schwarz, Sherry **On Behalf Of** Leeds, Eric
Sent: Monday, March 21, 2011 6:03 PM
To: NRR Distribution
Subject: Japanese Event Response and Available Resources

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- NRR SharePoint Site: http://portal.nrc.gov/edo/nrr/default.aspx
- NRC Public Website: NRC Actions on Japan's Emergency: http://www.nrc.gov/japan/japan-info.html

From: Hiland, Patrick
To: Leeds, Eric
Cc: Grobe, Jack; Boger, Bruce
Subject: FW: Volunteer to support AID/NRC mission to Japan
Date: Tuesday, March 22, 2011 9:36:41 AM
Importance: High

Eric, please add Steven Arndt to NRR's list of volunteer candidates for the Japan response. He was out of office on international travel the past week and unavailable. I've highlighted the most relevant past international activities Steven has successfully performed.

From: Arndt, Steven
Sent: Tuesday, March 22, 2011 8:09 AM
To: Hiland, Patrick
Subject: Volunteer to support AID/NRC mission to Japan

Pat,

As we discussed, I would like to volunteer to support NRC mission to Japan. If I can be of use to the Agency in this role I would like to do so.

I brief summary of my relevant skill set is provided below.

- Ph.D. in Nuclear Engineering from Ohio State with studies in reactor analysis, risk assessment and instrumentation design
- Courses towards a Ph.D. in Reliability Engineering from University of Maryland
- Currently Senior Level Advisor, with past experience in Severe Accident Analysis (RES), Human Factors (RES) and Incident Response (AEOD)
- **Lead one of the NRC initiatives in Russia and Ukraine (Lisbon Initiative) sponsored by AID to assist their Regulatory Agencies**
- Member of NRC response teams (Reactor Safety and Executive Support) for a number of years
- Experience in numerous high level international exchanges, both multilateral and bilateral.

Steven

Steven A. Arndt, Ph.D., P.E.
Senior Technical Advisor
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Tel: 301-415-6502
Fax: 301-415-2444
E-mail: steven.arndt@nrc.gov

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From: Leeds, Eric
To: Craver, Patti
Cc: Givvines, Mary; Ferrell, Kimberly; Grobe, Jack; Nguyen, Quynh
Subject: FW: FOIA Requests for Japan Crisis Related Material
Date: Tuesday, March 22, 2011 4:46:00 PM

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Corbett, James
Sent: Tuesday, March 22, 2011 2:46 PM
To: Doane, Margaret; Brenner, Eliot; Joosten, Sandy; Leeds, Eric; Sheron, Brian; Wiggins, Jim
Cc: Ash, Darren; Weber, Michael; Virgilio, Martin; Rothschild, Trip; Janney, Margie; Nichols, Russell; Sealing, Donna; Boyce, Thomas (OIS); Schaeffer, James
Subject: FOIA Requests for Japan Crisis Related Material

I have heard concerns from you and/or your staff about responding to the recent FOIA requests for material related to the very crisis to which we are in the midst of addressing. I am currently acting for Joe Holonich while he works with the TABS project. In this role, I have discussed the situation with my staff and wanted to ease your concerns.

The recent FOIA requests met the criteria for and were granted expedited processing. Expedited processing means that these FOIA requests should be processed ahead of other non-expedited FOIA requests and that they must be processed "as soon as practicable." It does not mean that resources should be pulled from other mission critical activities and placed on processing these requests. Your existing FOIA coordinators and staff should apply reasonable efforts to complete these requests considering the constraints of the current situation.

The requester has been contacted and is not willing to narrow the scope or breadth of these requests. We have alerted the requester that our response may be delayed due to the efforts necessary to respond to the event itself.

It is important to keep in mind that records for the three expedited requests cover only the time period of March 11 through March 16 (the date the NRC received the request).

We are drafting a notification for our web site and acknowledgement letter to alert requestors of the likelihood of longer than usual response times from the Agency.

As with any FOIA request, my staff is available to answer any questions and provide guidance. We will be working with your coordinators to determine if partial releases are possible and to look at ways to streamline the collection of material (e.g., special mailboxes or folders in Outlook).

We are committed to working closely with you. If you have any additional concerns, please contact me.

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James Corbett, Acting Director
Information and Records Services Division
Office of Information Services
Room: O6-H23 - MailStop: O6-H16M
Phone: 301-415-7545

From: Ferrell, Kimberly
To: Nguyen, Quynh; Givvines, Mary
Cc: Leeds, Eric; Grobe, Jack; Boger, Bruce; Meighan, Sean
Subject: RE: Funding Needs for Japan Follow-up - Resent to provide Attachment
Date: Tuesday, March 22, 2011 2:27:16 PM

This has been rescinded by OCFO – no action is needed.

From: Nguyen, Quynh
Sent: Tuesday, March 22, 2011 1:43 PM
To: Givvines, Mary; Ferrell, Kimberly
Cc: Leeds, Eric; Grobe, Jack; Boger, Bruce; Meighan, Sean
Subject: FW: Funding Needs for Japan Follow-up - Resent to provide Attachment

FYI

From: RidsNrrOd Resource
Sent: Monday, March 21, 2011 4:37 PM
To: Meighan, Sean
Cc: Nguyen, Quynh
Subject: FW: Funding Needs for Japan Follow-up - Resent to provide Attachment

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From: Kasputys, Clare
Sent: Monday, March 21, 2011 4:18 PM
To: RidsNroOd Resource; RidsNrrOd Resource; RidsNsirOd Resource; RidsResOd Resource; RidsFsmeOd Resource; RidsNmssOd Resource; RidsOgcMailCenter Resource; RidsCsoMailCenter Resource; RidsRgn1MailCenter Resource; RidsRgn2MailCenter Resource; RidsRgn3MailCenter Resource; RidsRgn4MailCenter Resource; RidsOipMailCenter Resource
Cc: RidsNrrPmda Resource; RidsNroPmda Resource; RidsNsirPmda Resource; RidsResPmdaMail Resource; RidsFsmePbpaFmb Resource; RidsNmssTa Resource; Golder, Jennifer; Smolik, George; Muessle, Mary; Andersen, James; Jacobs-Baynard, Elizabeth; Allwein, Russell; Peterson, Gordon; Peterson, Gordon; Virgilio, Martin; Virgilio, Martin; Weber, Michael; Weber, Michael; Ash, Darren; Ash, Darren
Subject: Funding Needs for Japan Follow-up - Resent to provide Attachment

Resent to provide the Attachment

All,

The Chairman has requested for the NRC to conduct a Near-term (90 day effort) and a longer-term review (as discussed by Bill B at the Commission meeting today) of regulatory issues affecting U.S. operating reactors based on the events in Japan. The Chairman is interested in seeking supplemental funding to support our efforts for the above effort, in addition to NRC's costs associated with emergency response and technical experts sent to Japan. OCFO is preparing cost data associated with emergency response and technical support to Japan.

On Friday, the OCFO requested some initial estimates to support the reviews (see attached). At this time, we are requesting the offices to review these initial estimates and include some information concerning the work that is envisioned to support these reviews. Listed below are some initial thoughts about the scope of the near-term and long-term reviews. Also, consider what on-going efforts related to the development of our regulatory

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program could benefit with supplemental funding. For example, it was mentioned in the Commission meeting that NRC is currently working on GSI-199. Should funding be accelerated for this effort and others of this nature.

Near Term Review (90 day effort):

- Evaluate currently available technical and operational information from the Japan event to identify near-term (or immediate) operational or regulatory issues affection U.S. operating reactors of all designs in areas such as protection against earthquakes, tsunami, flooding, hurricanes, station blackout and a degraded ability to restore power; severe accident mitigation and emergency preparedness
- Develop recommendations for generic communications, orders, changes to inspection procedures and licensing review guidance, etc.
- Possibly prepare a 30 day quick look report

Longer-Term Review (Following obtaining sufficient technical information from the Japan event)

- Evaluate all technical and policy issues related to the event to identify additional research, generic issues, changes to the reactor oversight process, rulemakings and adjustments to the regulatory framework that should be conducted by the NRC.
- Evaluate interagency issues such as emergency preparedness.
- Applicability of the lessons learned to non-operating reactor and non-reactor facilities.

It is recognized that the full scope of the reviews has yet to be determined or the size of the group that will be conducting the analysis. Therefore, we are looking only for rough cost estimates. You are requested to send the level of funding (dollars and FTE) that is anticipated that could be obligated in FY 2011 for both the near-term and long-term efforts. We are asking the business line leads to coordinate with supporting offices and submit a response by business line and by office. Please send your responses to me and Liz Jacobs-Baynard and copy Jennifer Golder and George Smolik, OCFO NLT than Noon on Tuesday.

If you have any questions, please let me know.

Thank you for your support.

From: Mehrhoff, Vivian
To: Ahn, Tae; Albert, Michelle; Alferink, Beth; Andersen, James; Bahadur, Sher; Bailey, Marissa; Bielecki, Jessica; BowdenBerry, Elva; Brach, Bill; Bradbury, John; Brooks, David; Bupp, Margaret; Campbell, Andy; Campbell, Larry; Camper, Larry; Cao, Tianqing; Cermeno, Andrea; Chang, Kien; Ciocco, Jeff; Coleman, Neil; Collins, Elmo; Comar, Manny; Compton, Keith; Cuadrado, Jose; Damon, Dennis; David Turner; Davis, Jack; Dricks, Victor; Eubanks-White, Darlene; Everett, Vincent; Fedors, Randall; Fetter, Allen; Firth, James; Ford, William; Francis, Karin; Freeman, Denise; Garcia-Santos, Norma; Gendelman, Adam; Glenn, Chad; Gray, Anita; Guttmann, Jack; Gwo, Jin-Ping; Hair, Christopher; Hamdan, Latif; Haney, Catherine; Higgs, Gloria; Howell, Art; Hull, John; Jagannath, Banad; John Stamatkos; Johnson, Robert; Kobetz, Timothy; Kokajko, Lawrence; Kotra, Janet; Latta, Robert; Lee, Mike; Leeds, Eric; Lenehan, Daniel; Leslie, Bret; Lewis, Robert; Maier, Bill; Markley, Christopher; Matula, Thomas; McCartin, Timothy; McIntyre, David; McKenney, Christepher; Misenhimer, David; Mohseni, Aby; Mullins, Alicia; Nataraja, Mysore; Ordaz, Vonna; Parker, Nicole; Parrott, Jack; Pineda, Christine; Powell, Amy; Rahimi, Meraj; Rivera, Carmen; Roach, Kevin; Rubenstone, James; Salomon, Stephen; Sampson, Michele; Schlapper, Gerald; Self, Stephen; Silvia, Andrea; Spitzberg, Blair; Stablein, King; StAmour, Norman; Staub, Janet; Sulima, John; Tannenbaum, Anita; Trifiletti, Sue; Uselding, Lara; Valencia, Jennifer; Virgilio, Rosetta; Wastler, Sandra; Waters, Michael; Weaver, Doug; Weber, Michael; Whaley, Sheena; White, Bernard; Willoughby, Leonard; Young, Mitzi
Subject: News Clips - LVRJ, 03/22/2011
Date: Tuesday, March 22, 2011 8:15:23 AM
Attachments: image001.png

Crisis in Japan will affect U.S. nuclear power industry, experts say

By Keith Rogers
LAS VEGAS REVIEW-JOURNAL
Posted: Mar. 21, 2011 | 10:37 p.m.

While elevated radiation levels from Japan's crippled nuclear power reactors probably won't cause health problems in the United States, the U.S. nuclear power industry will see effects from lessons learned as a result of the March 11 earthquake and tsunami that devastated the island nation, UNLV experts said Monday night.

The impacts might include more stringent requirements for 20-year license extensions of more than 40 U.S. reactors under review.

A push also will be made to centralize storage of used nuclear fuel that is currently kept in pools and above-ground casks at reactor sites, said Paul Seidler, manager of a nuclear research program at UNLV's Harry Reid Center for Environmental Studies.

Yucca Mountain, 100 miles northwest of Las Vegas, was studied for such centralized storage of nuclear reactor waste, but federal funding for the project has been terminated.

"There will be significant implications from this event," said Seidler, a former Nuclear Energy Institute official and executive director of the Nevada Alliance for Defense, Energy and Business.

"There will be impacts on new nuclear reactors. The biggest impact on the policy side will be re-licensing," he said.

On a global scale, Seidler said he wouldn't be surprised if some reactors in areas of high seismic activity are eventually closed.

"Frankly we don't know what's happening fully in Japan. We will learn a lot of lessons ... good things that will improve technology," he said.

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More than 100 people attended Monday night's forum, sponsored by the Reid Center for Environmental Studies. It featured five experts at the University of Nevada, Las Vegas' Barrick Museum Auditorium.

Denis Beller, a nuclear engineering research professor at UNLV, said more upgrades for U.S. reactors "are certainly coming" as a result of the crisis in Japan.

However, nuclear power reactors in California, particularly the San Onofre plant near San Clemente, are in a better position to withstand a tsunami as big as the one that wiped out power and backup systems for cooling nuclear fuel at the Fukushima Dai-ichi complex in Japan.

The San Onofre plant is 50 feet above sea level and has a 30-foot seawall that's 5 feet taller than the tsunami wave that pounded Japan's coast after the 9.0-magnitude earthquake.

"Even if it came over the seawall, it couldn't hit the backup generator," Beller said.

Panel member Steve Curtis, a health physicist, said radioactive materials that were injected into the atmosphere by explosions and venting of the disabled Japanese reactors will cause "no significant radiation danger to citizens of the United States."

Radiation is 100 times above naturally occurring background levels outside the Fukushima plant and 2,000 times natural background radiation inside the complex.

"That sounds really bad, but you need levels 10 million times background" for lethal doses, Curtis said.

Beller added that the dose rate per hour at the Fukushima plant is "very, very low. These values are tiny compared to the dangerous dose."

He added, "Japan radiation levels, although elevated, are not deadly."

UNLV chemistry professor Ken Czerwinski said isotopes of krypton and xenon escaped when the coolant loss allowed nuclear fuel to heat up and melt the metal casing that encased the uranium fuel pellets at the Japanese plant.

But the accident in Japan wasn't as contaminating as the 1986 Chernobyl disaster in the former Soviet Union that ignited graphite control rods and caused them to burn "more like a volcano," he said.

Contact reporter Keith Rogers at krogers@reviewjournal.com or 702-383-0308.

COMMENTS: 2 Reader Comment(s)
LINK: http://www.lvrj.com/news/crisis-in-japan-will-affect-u-s-nuclear-power-industry-experts-say-118412734.html

Vivian L Mehrhoff
Administrative Assistant
Division of Reactor Safety

Region IV - Arlington, Texas 76011
817-860-8166

U.S.NRC
United States Nuclear Regulatory Commission
Protecting People and the Environment

"Death is not the greatest loss in life. The greatest loss is what dies inside us while we live." ...Norman Cousins

From: Nguyen, Quynh
To: Schwarz, Sherry; Ross, Robin; Cohen, Shari
Cc: Leeds, Eric; Grobe, Jack; Boger, Bruce; Meighan, Sean
Subject: FOIA Status
Date: Tuesday, March 22, 2011 11:09:08 AM

I grabbed "Sent Items" (anything Inbox will be covered by someone else's "Sent") from Eric and Jack and then looked through that to make the FOIA Folder that you are printing out. Thanks!

Bruce, how do you want yours done?

When hardcopies are done, please give to the respective ET for review. Per FOIA rules, I grabbed everything related to Japan.

http://www.internal.nrc.gov/announcements/yellow/2009/2009-054.html

In the future, Sean and I recommend more pushback on the FOIA Team to "better define" the search criteria.

Lastly, thanks to Sherry, Robin, and Shari for their efforts!

ppp/399

From:	Corbett, James
To:	Doane, Margaret; Brenner, Eliot; Joosten, Sandy; Leeds, Eric; Sheron, Brian; Wiggins, Jim
Cc:	Ash, Darren; Weber, Michael; Virgilio, Martin; Rothschild, Trip; Janney, Margie; Nichols, Russell; Sealing, Donna; Boyce, Thomas (OIS); Schaeffer, James
Subject:	FOIA Requests for Japan Crisis Related Material
Date:	Tuesday, March 22, 2011 2:45:46 PM

I have heard concerns from you and/or your staff about responding to the recent FOIA requests for material related to the very crisis to which we are in the midst of addressing. I am currently acting for Joe Holonich while he works with the TABS project. In this role, I have discussed the situation with my staff and wanted to ease your concerns.

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We are committed to working closely with you. If you have any additional concerns, please contact me.

James Corbett, Acting Director
Information and Records Services Division
Office of Information Services
Room: O6-H23 - MailStop: O6-H16M
Phone: 301-415-7545

PPP/400

From: PMT03 Hoc
Sent: Tuesday, March 22, 2011 1:53 PM
To: PMT07 Hoc
Subject: file
Attachments: Summary of 3-22-2011 phone call between PMT and NEI.docx

PPP/401

Summary of phone call between PMT and NEI
(March 22, 2011; 9:30AM – 9:48AM)

NEI Attendees:
Ellen Anderson (exa@nei.org) (leader)
Jamie Mallon
Graham Johnson
Others (complete list to be emailed by NEI to PMT12.hoc@nrc.gov)

NRC attendees:
John Lubinski
Kathryn Brock
Bruce Watson

In response to NEI's questions on the assumptions the NRC used for the two RASCAL dose assessments that accompanied the March 16, 2011 NRC press release, the PMT provided NEI the following:

> The first assessment assumed release from Unit 2. It assumed an ex-vessel, unfiltered release from a totally failed containment, 100% fuel damage, and actual meteorological conditions during early morning hours. This resulted in 550 assemblies in the core. The low dispersion characteristics included low wind speeds, relatively stable air, and light precipitation. The assessment considered the conditions of the plant at the time and possible degrading conditions. The assumptions included total failure, sprays off, no removal mechanism (e.g., scrubbing), no mitigation by the operator. A ground level release was assumed with release duration of 16 hours.
>
> The second assessment assumed 30% core damage at Units 2 and 3, and 100% fuel damage for the Unit 4 spent fuel pool. The Unit 4 spent fuel pool was assumed to include only a full core offload from the current outage. To account for the combined inventories of the three units sources (i.e., from Units 2 and 3 and Unit 4 spent fuel pool), the staff adjusted the reactor power level, fuel burnup and number of assemblies, and included that as one source used to perform a RASCAL calculation. This resulted in 917 assemblies in the core. The assumptions included total failure, sprays off, no removal mechanism (e.g., scrubbing), no mitigation by the operator. The shutdown time was assumed to be 14:46 hours on March 11, 2011, and the core was assumed uncovered at 19:50 hours on March 16, 2011. This run was modeled as LOCA. In addition, the source term included two additional days of decay before release. The meteorological conditions for the second assessment also assumed actual conditions with light precipitation, calm wind (between 2 and 5 meters per second) conditions with occasional higher wind speeds (around 10 meters per second). A ground level release was assumed with a release duration used was 15 hours. For these atmospheric conditions, an average wind speed of 5 meters per second and stability class of "D" would seem a good assumption. Wind direction was primarily from the northwest (NW). The same assessment could easily be used with a wind shift to blow from the northeast (NE).

NEI requested to have routine, periodic calls to discuss and share with the NRC their subsequent dose assessments based on assumptions similar to those identified above. Given the current focus of the PMT (i.e., dose assessments based on current plant conditions), NRC recommended waiting till the Fukushima plants are stable before having these conversations. However, NRC agreed to answer any questions NEI has on the above. NRC agreed to consider sharing with NEI any dose assessments performed to support continued protective action guidelines.

From: LIA04 Hoc
Sent: Wednesday, March 23, 2011 6:05 PM
To: Barker, Allan; Browder, Rachel; Erickson, Randy; Logaras, Harral; Maier, Bill; McNamara, Nancy; Tifft, Doug; Trojanowski, Robert; Woodruff, Gena; Easson, Stuart; Flannery, Cindy; LIA04 Hoc; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta
Cc: Piccone, Josephine; Jackson, Deborah; Collins, Elmo; Dean, Bill; Heck, Jared; McCree, Victor; Pederson, Cynthia; Satorius, Mark
Subject: Press Release: Nuclear Regulatory Commission Directs Staff on Continuing Agency Response to Japan Events; Adjusts Commission Schedule
Attachments: 11-055.docx

Attached is a press release that was just posted to the NRC website.

From: Virgilio, Rosetta
Sent: Wednesday, March 23, 2011 6:02 PM
To: LIA04 Hoc; OST05 Hoc
Subject: FW: Press Release: Nuclear Regulatory Commission Directs Staff on Continuing Agency Response to Japan Events; Adjusts Commission Schedule

FYI

From: OPA Resource
Sent: Wednesday, March 23, 2011 5:23 PM
To: Ash, Darren; Barkley, Richard; Batkin, Joshua; Bell, Hubert; Belmore, Nancy; Bergman, Thomas; Bollwerk, Paul; Bonaccorso, Amy; Borchardt, Bill; Bozin, Sunny; Brenner, Eliot; Brock, Terry; Brown, Boris; Bubar, Patrice; Burnell, Scott; Burns, Stephen; Carpenter, Cynthia; Chandrathil, Prema; Clark, Theresa; Collins, Elmo; Couret, Ivonne; Crawford, Carrie; Cutler, Iris; Dacus, Eugene; Dapas, Marc; Davis, Roger; Dean, Bill; Decker, David; Dricks, Victor; Droggitis, Spiros; Flory, Shirley; Franovich, Mike; Gibbs, Catina; Haney, Catherine; Hannah, Roger; Harbuck, Craig; Harrington, Holly; Hasan, Nasreen; Hayden, Elizabeth; Holahan, Gary; Holahan, Patricia; Holian, Brian; Jacobssen, Patricia; Jaczko, Gregory; Jasinski, Robert; Jenkins, Verlyn; Johnson, Michael; Jones, Andrea; Kock, Andrea; Kotzalas, Margie; Ledford, Joey; Lee, Samson; Leeds, Eric; Lepre, Janet; Lew, David; Lewis, Antoinette; Loyd, Susan; Magwood, William; McCrary, Cheryl; McGrady-Finneran, Patricia; McIntyre, David; Mensah, Tanya; Mitlyng, Viktoria; Monninger, John; Montes, David; Nieh, Ho; Ordaz, Vonna; Ostendorff, William; Owen, Lucy; Powell, Amy; Quesenberry, Jeannette; Reddick, Darani; Regan, Christopher; Reyes, Luis; Riddick, Nicole; RidsSecyMailCenter Resource; Riley (OCA), Timothy; Rohrer, Shirley; Samuel, Olive; Satorius, Mark; Schaaf, Robert; Schmidt, Rebecca; Scott, Catherine; Screnci, Diane; Shaffer, Vered; Shane, Raeann; Sharkey, Jeffry; Sheehan, Neil; Sheron, Brian; Siurano-Perez, Osiris; Steger (Tucci), Christine; Svinicki, Kristine; Tabatabai, Omid; Tannenbaum, Anita; Taylor, Renee; Temp, WDM; Thomas, Ann; Uhle, Jennifer; Uselding, Lara; Vietti-Cook, Annette; Virgilio, Martin; Virgilio, Rosetta; Walker-Smith, Antoinette; Weaver, Doug; Weber, Michael; Weil, Jenny; Werner, Greg; Wiggins, Jim; Williams, Evelyn; Zimmerman, Roy; Zorn, Jason
Subject: Press Release: Nuclear Regulatory Commission Directs Staff on Continuing Agency Response to Japan Events; Adjusts Commission Schedule

To be issued in 15 minutes.

Office of Public Affairs
US Nuclear Regulatory Commission
301-415-8200
opa.resource@nrc.gov

PPP/402

NRC NEWS

U.S. NUCLEAR REGULATORY COMMISSION

Office of Public Affairs Telephone: 301/415-8200
Washington, D.C. 20555-0001
E-mail: opa.resource@nrc.gov Site: www.nrc.gov
Blog: http://public-blog.nrc-gateway.gov

No. 11-055 March 23, 2011

NUCLEAR REGULATORY COMMISSION DIRECTS STAFF ON CONTINUING AGENCY RESPONSE TO JAPAN EVENTS; ADJUSTS COMMISSION SCHEDULE

The Nuclear Regulatory Commission has voted to launch a two-pronged review of U.S. nuclear power plant safety in the aftermath of the March 11 earthquake and tsunami and the resulting crisis at a Japanese nuclear power plant.

The Commission supported the establishment of an agency task force, made up of current senior managers and former NRC experts with relevant experience. The task force will conduct both short- and long-term analysis of the lessons that can be learned from the situation in Japan, and the results of their work will be made public.

"Our focus is always on ensuring the health and safety of the American people through our licensing and oversight of plants and radioactive materials in this country," Chairman Jaczko said. "Examining all the available information from Japan is essential to understanding the event's implications for the United States. We will perform a systematic and methodical review to see if there are changes that should be made to our programs and regulations to ensure protection of public health and safety."

The Commission set an aggressive schedule for the task force to provide formal updates on the short-term effort in 30, 60 and 90 days. NRC senior technical staff provided the Commission a 90-minute briefing on Monday, as a first step. The staff reiterated their conclusions that the United States and its territories will avoid any harmful radiation levels as a result of the ongoing events at the Fukushima Daiichi plant damaged by the quake and subsequent tsunami.

NRC inspectors who are posted at every U.S. nuclear power plant will also support the task force's short-term effort, supplemented as necessary by experts from the agency's regional and headquarters offices.

"This work will help determine if any additional NRC responses, such as Orders requiring immediate action by U.S. plants, are called for, prior to completing an in-depth investigation of the information from events in Japan," said NRC Executive Director for Operations Bill Borchardt.

The longer-term review will inform any permanent NRC regulation changes determined to be necessary. The Commission said it hopes the task force can begin the long-term evaluation in no later than 90 days, and added that the task force should provide a report with recommended actions within six months of the beginning of that effort.

The Commission also decided to revise its schedule for meetings and briefings to allow ample focus on the agency's response to events in Japan. Open Commission meetings on the status of the NRC response to the Japan earthquake are scheduled for April 14 and 28, a meeting on the staff's 30-day response is planned for May 3 and a meeting on the staff's 60-day response is planned for June 16. A revised Commission meeting schedule will be posted shortly on the NRC website.

###

News releases are available through a free *listserv* subscription at the following Web address: http://www.nrc.gov/public-involve/listserver.html. The NRC homepage at www.nrc.gov also offers a SUBSCRIBE link. E-mail notifications are sent to subscribers when news releases are posted to NRC's website.

From: McNamara, Nancy
Sent: Wednesday, March 23, 2011 2:30 PM
To: LIA04 Hoc; OST05 Hoc
Cc: Tifft, Doug; Maier, Bill; Logaras, Harral; Trojanowski, Robert; Barker, Allan; Turtil, Richard
Subject: Request for Consideration

Follow Up Flag: Follow up
Flag Status: Flagged

Our states are still struggling with answering questions concerning the NRC making a PAR. One of the many concerns by the States is that during an event in the US, the NRC would publically issue a PAR disagreeing with the State's Protective Action Decision without discussing our disagreement with the State first. We all know that in theory, the expectation during a real event is that when the NRC is informed of the State's PAD and should we disagree with that PAD we would discuss it with the Governor or lead decision maker prior to going to the public.

However, the perception on the recent issuance of the PAR is that the NRC worked in a vacuum and did not coordinate our decision and public issuance with the Japanese Govt. I don't believe this was the case. I understand we had discussions with the Japanese Gov't and there was a mutual understanding between the US and Japan of our intentions.

We believe it would helpful to our States if we can tell them that the process worked the same as would be expected to occur during a US event. Can we do that? If so, what would be the talking point?

PPP/403

From: joe.lawson@nrc.gov <delivery@yousendit.com>
Sent: Wednesday, March 23, 2011 9:50 PM
To: ET07 Hoc
Subject: pictures

joe.lawson@nrc.gov has sent you the following via YouSendIt

36 files were sent to you: **Download**

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Size: **324.81 MB** Files will be available for download until **April 06, 2011 18:50 PDT**.

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PPP/404

From: ET07 Hoc
Sent: Wednesday, March 23, 2011 7:34 AM
To: RST01 Hoc
Subject: FW: Pictures

From: joe.lawson@nrc.gov [mailto:delivery@yousendit.com]
Sent: Wednesday, March 23, 2011 6:25 AM
To: ET07 Hoc
Subject: Pictures

Delivery provided by YouSendIt

joe.lawson@nrc.gov
has sent you a file

Subject: Pictures

IMG_3139.JPG
Size: 9.38 MB
Expires: March 30, 2011 03:25 PDT

If the above link does not work, you can paste the following address into your browser:
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PPP/405

From: ET07 Hoc
Sent: Wednesday, March 23, 2011 7:33 AM
To: RST01 Hoc
Subject: FW: Pictures

From: joe.lawson@nrc.gov [mailto:delivery@yousendit.com]
Sent: Wednesday, March 23, 2011 6:32 AM
To: ET07 Hoc
Subject: Pictures

joe.lawson@nrc.gov has sent you the following via YouSendIt

IMG_3142.JPG **Download**

Size: **9.43 MB** Content will be available for download until **March 30, 2011 03:31 PDT**.

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1919 S. Bascom Ave., Campbell, CA 95008

PPP/406

From: joe.lawson@nrc.gov <delivery@yousendit.com>
Sent: Wednesday, March 23, 2011 6:46 AM
To: ET07 Hoc
Subject: Pictures

joe.lawson@nrc.gov has sent you the following via YouSendIt

18 files were sent to you: **Download**

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Size: **178.4 MB** Files will be available for download until **April 06, 2011 03:46 PDT**.

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1919 S. Bascom Ave., Campbell, CA 95008

PPP/407

From: Hoc, PMT12
Sent: Wednesday, March 23, 2011 6:35 PM
To: PMT03 Hoc
Subject: FW: TEPCO Earthquake Information Update on March 23: Fukushima-Daiichi Status
Attachments: image002.gif; image001.gif

From: LIA08 Hoc

Sent: Wednesday, March 23, 2011 6:00 PM

To: LIA06 Hoc; Hoc, PMT12

Subject: FW: TEPCO Earthquake Information Update on March 23: Fukushima-Daiichi Status

For your info. Jeff Temple

From: LIA02 Hoc

Sent: Wednesday, March 23, 2011 5:52 PM

To: LIA08 Hoc; PMT01 Hoc

Subject: FW: TEPCO Earthquake Information Update on March 23: Fukushima-Daiichi Status

Please pass this on to interested parties. Thanks!

From: Aono Kenjiro [mailto:aono-kenjiro@jnes-usa.org]

Sent: Wednesday, March 23, 2011 5:51 PM

To: LIA02 Hoc

Cc: yamachika-hidehiko@jnes-usa.org; michael-chinworth@jnes-usa.org; Aono Kenji

Subject: FW: TEPCO Earthquake Information Update on March 23: Fukushima-Daiichi Status

FYI

This is from TEPCO Washington

From: 松尾　建次 [mailto:matsuo.kenji@wash.tepco.com] **On Behalf Of** matsuo.kenji@tepco.co.jp

Sent: Wednesday, March 23, 2011 5:18 PM

PPP/408

To: matsuo.kenji@tepco.co.jp

Subject: TEPCO Earthquake Information Update on March 23: Fukushima-Daiichi Status

TEPCO Earthquake Information Update on March 23: Fukushima-Daiichi Status

Dear Friends,

Please see updates at Fukushima-Daiichi NPS.

(1) Plant Status
(2) Atmospheric Radioactivity in Fukushima-Diichi site area update on 3/22 data
(3) Integrity assessment of RPV and PCV at measured temperature.

Contacts:
TEPCO Washington Office 202-457-0790
Kenji Matsuo, Director and General Manager
Yuichi Nagano, Deputy General Manager,
Masayuki Yamamoto, Manager, Nuclear Power Programs

---

(1) Plant Status as of March 23

- Water Spray to Spent Fuel Pool
  Unit 3: 11:00-13:20, 35 ton using Fire Truck, Water spray by Hyper Rescue Squad was cancelled due to the smoke from unit 3 reactor building.
  Unit 4: 10:00-13:02, 130 ton using Concrete Pump
- Power Supply
  Unit 1: Receiving power from unit 2 bus, conducting electrical equipment inspection.
  Unit 2: Completed off-site power recovery work, conducting electrical equipment inspection.
  Unit 3: Main control room lighted (22:46, March 22)
  Unit 4: Completed off-site power recovery work, conducting electrical equipment inspection.
  Unit 5,6: Complete switching to off-site power.
- Other
  Unit 3: Black smoke appeared from unit 3 at 16:20. Personnel tried to confirm the smoke using search light during the night, but it was difficult to confirm whether still smoke exists or not.
  Reserving water in the make-up water (MUW) tank for preparation of inject fresh water into the RPV. Though test run of the MUW pump was planned in the evening of March 23, it was postponed due to the smoke.
  Unit 5: RHR seawater tripped at 17:20. This happened when operator switched temporary pump power supply. We are planning to start a stand by unit in the morning of March 24. From the trend of the reactor water temperature, we believe that we can keep Unit 5 in cold shutdown for the time being.

(2) Result of Atmospheric Radioactive Monitoring sampled on March 22

On March 23, we conducted nuclide analysis of radioactive materials contained in the air which were collected on March 22 at Fukushima Daiichi Nuclear Power Station. Radioactive materials were detected again as shown in the attachment. We reported the result to NISA (Nuclear and Industry Safety Agency) as well as to Fukushima Prefecture.

1. Conditions of collection and measurement

Collection of sample	Place	[illegible]
	Date	3/22 [illegible]
	Manner of Collection	Collecting dust by monitoring cars
	Wind direction & speed	W [illegible] (as of [illegible])
Measurement of sample	Date	3/22 [illegible]
	Measuring method	Overnight sample to [illegible] and analyzed by Germanium semi-conductor type nuclide
	Measuring time	500s

2. Result

	Nuclide	Collected on March 22nd			[illegible]
		[illegible] density (Bq/m3)	[illegible] density (Bq/m3)	[illegible] in the air [illegible]	[illegible]
Volatile	I-131	2.23E-03	1.[illegible]E-05	2.24	1.0E-03
	I-132	ND	-	-	7.0E-02
	I-133	ND	-	-	5.0E-03
Particulate	Co-58	ND	-	-	1.0E-02
	Cs-134	1.59E-05	5.653E-08	0.01	2.0E-03
	Cs-136	ND	-	-	1.0E-02
	Cs-137	1.88E-05	6.28E-08	0.01	3.0E-03
Other detected nuclide	Te-129	ND	-	-	4.0E-01
	Te-132	6.88E-05	1.118E-05	0.01	7.0E-03

(3) Integrity assessment of RPV and PCV at measured temperature

Temperature at unit 1 RPV and PCV were higher than design temperature for these. But we assume the RPV and PCV could maintain structural integrity under the current condition.

- RPV: Nozzle and Bottom temperature were slightly higher than the design temperature of 302C. Considering internal pressure of RPV and hydraulic head pressure (20m), stress is estimated to be 5 MPa. The yield stress of RPV at 400C is 466 MPa and this is greater than 5MPa.

- PCV: D/W temperature was 390-400 C, greater than PCV design temperature, 139 C. Considering D/W internal pressure 0.3MPa and deadweight, stress intensity is estimated to be 67MPa for D/W and 74 MPa for S/C. Since extrapolated yield stress is 150 MPa, we assume structural integrity of the PCV is maintained under the current stress of 67 and 74 MPa.

[illegible]	Unit 1	Unit 2	Unit 3
RPV Temp	[illegible]	[illegible]	[illegible]
FW Nozzle	[illegible] C	[illegible] C	[illegible] C
RPV Bottom	[illegible] C	[illegible] C	[illegible] C
RPV Design Temp	[illegible] C	[illegible] C	[illegible] C
Stress with Internal Pressure of RPV and hydraulic load pressure(20bar)	[illegible] MPa	-	-
Sy(Yield Stress) at 400C	[illegible] MPa	-	-
PCV Temp	[illegible]	[illegible]	[illegible]
(Atmospheric)	390-400 C	[illegible] C	[illegible]
PCV Design Temp	[illegible] C	[illegible] C	[illegible] C
Stress Intensity at 0.3MPa(abs) + Deadweight		-	-
D/W (MPa)	[illegible] MPa	-	-
S/C(MPa)	[illegible] MPa	-	-
Sy(Yield Stress) at 350 C	[illegible] MPa	-	-
Extrapolation at 400C	about [illegible] MPa	-	-

From: LIA08 Hoc
Sent: Wednesday, March 23, 2011 3:44 AM
To: LIA06 Hoc
Subject: FW: NRC Japan Team Schedule
Attachments: NRC Japan Team Daily Schedule.docx; image001.jpg

NRC Japan team daily schedule

From: ET07 Hoc
Sent: Wednesday, March 23, 2011 3:41 AM
To: Virgilio, Martin; Carpenter, Cynthia; Boger, Bruce
Cc: RST01 Hoc; Hoc, PMT12; LIA08 Hoc
Subject: FW: NRC Japan Team Schedule

See attachment

From: HOO Hoc
Sent: Wednesday, March 23, 2011 3:17 AM
To: LIA07 Hoc; OST01 HOC; OST02 HOC; OST03 HOC; ET07 Hoc
Cc: HOO Hoc
Subject: FW: NRC Japan Team Schedule

See Attached Japan Team Daily Schedule.

Headquarters Operations Officer
U.S. Nuclear Regulatory Commission
Phone: 301-816-5100
Fax: 301-816-5151
email: hoo.hoc@nrc.gov
secure e-mail: hoo1@nrc.sgov.gov

U.S.NRC
United States Nuclear Regulatory Commission
Protecting People and the Environment

From: Foggie, Kirk
Sent: Wednesday, March 23, 2011 3:12 AM
To: HOO Hoc
Cc: Casto, Chuck; Doane, Margaret
Subject: NRC Japan Team Schedule

Mr. Hoo,

Per the NRC Japan Team leads request, please pass the NRC Japan Team daily schedule to the ET and all the Ops Center teams. The schedule is fluid and subject to change without notice. Additionally, meetings are added to the schedule constantly with minimal prep time and will be added to the schedule as necessary.

Thanks.

Kirk

PPP/409

NRC Japan Team Daily Schedule

Time	Meeting
0800	Conference call with pump team (PACOM, USFJ, US EMB, J4, Bechtel)
0800	NRC Team Meeting
0830	Emergency Action Committee at Embassy (Embassy Section Heads)
0930	Ambassador Staff Meeting
1000	NISA meeting
1030	U.S. Interagency Call Jefferson Room Embassy
1100	TEPCO and NISA meeting
1600	RST/PMT Conference Call
1800	Ambassador Roundup
2000	Cabinet Meeting
TBD	US Forces Japan meeting
TBD	TEPCO meeting at Embassy

As necessary

Secondary Meeting with NISA

Ministry of Defense meeting

Kantei (Prime Minister and his cabinet) meeting

From: LIA02 Hoc
Sent: Wednesday, March 23, 2011 6:39 AM
To: RST01 Hoc; PMT01 Hoc; Hoc, PMT12; LIA06 Hoc
Subject: FW: NRC Japan Team Schedule
Attachments: NRC Japan Team Daily Schedule.docx

FYI

From: HOO Hoc
Sent: Wednesday, March 23, 2011 6:38 AM
To: LIA02 Hoc; LIA03 Hoc
Subject: FW: NRC Japan Team Schedule

From: Foggie, Kirk
Sent: Wednesday, March 23, 2011 3:12 AM
To: HOO Hoc
Cc: Casto, Chuck; Doane, Margaret
Subject: NRC Japan Team Schedule

Mr. Hoo,

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Thanks.

Kirk

PPP/410

NRC Japan Team Daily Schedule

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1000	NISA meeting
1030	U.S. Interagency Call Jefferson Room Embassy
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1600	RST/PMT Conference Call
1800	Ambassador Roundup
2000	Cabinet Meeting
TBD	US Forces Japan meeting
TBD	TEPCO meeting at Embassy

As necessary

Secondary Meeting with NISA

Ministry of Defense meeting

Kantei (Prime Minister and his cabinet) meeting

From: OST05 Hoc
Sent: Wednesday, March 23, 2011 10:51 AM
To: Harrington, Holly; LIA04 Hoc
Cc: LIA06 Hoc; LIA08 Hoc; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta
Subject: RE: California Hearing and NRC

Thank you. I consider this closed.

Rich
Richard Turtil
State Liaison – NRC Liaison Team
Incident Response Center

From: Harrington, Holly
Sent: Wednesday, March 23, 2011 10:50 AM
To: OST05 Hoc; LIA04 Hoc
Cc: LIA06 Hoc; LIA08 Hoc; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta
Subject: RE: California Hearing and NRC

This is not a high-profile inquiry. It is one person with a question that I'd like to answer so it does not portray us as non-responsive to the state. I don't see further outreach as being necessary unless we as an agency want to let the state know we are willing and available should they need to reach out for us. But that is a separate discussion and should not be prompted because one person asked a question . . .

From: OST05 Hoc
Sent: Wednesday, March 23, 2011 10:46 AM
To: Harrington, Holly; LIA04 Hoc
Cc: LIA06 Hoc; LIA08 Hoc; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta
Subject: California Hearing and NRC

Holly:

Thank you for closing out this inquiry and providing the answer on the Blog. **I wonder if there'd be value added by our contacting someone with Calif. to respond to this?** Not you per se, but maybe you, Bill or us in State Liaison. Does anyone know WHO we'd contact with CA?

Rich

From: Harrington, Holly
Sent: Wednesday, March 23, 2011 10:11 AM
To: LIA04 Hoc
Cc: LIA06 Hoc; LIA08 Hoc; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; Lukes, Kim; Maupin, Cardelia; Noonan,

PPP/411

Amanda; OST05 Hoc; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta
Subject: RE: ACTION CLOSED PER THIS EMAIL: Please help me answer this question as soon as possible

Thank you all. This question was posed as a comment to the blog. I am going to post the comment and add the notation that we were not present because we were not invited. If we don't reply, folks will be left with the impression we blew off the state. OK?

From: LIA04 Hoc
Sent: Wednesday, March 23, 2011 9:57 AM
To: Harrington, Holly
Cc: LIA06 Hoc; LIA08 Hoc; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; LIA04 Hoc; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta
Subject: ACTION CLOSED PER THIS EMAIL: Please help me answer this question as soon as possible

Holly,

Please see the response from the Region below. We believe this adequately answers the question.

From: Maier, Bill
Sent: Wednesday, March 23, 2011 9:51 AM
To: LIA08 Hoc; LIA04 Hoc; LIA06 Hoc; PMT01 Hoc; Hoc, PMT12; Browder, Rachel; Erickson, Randy; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta
Cc: Collins, Elmo; Howell, Art
Subject: RE: Please help me answer this question as soon as possible

Yes Cardelia, the "easy answer" offered by LIA08 is correct. The NRC was not invited to this hearing and it is questionable that the agency would have been able to support attendance if requested given the short lead time.

Bill Maier
Region IV

From: LIA08 Hoc
Sent: Tuesday, March 22, 2011 11:55 AM
To: LIA04 Hoc; Maier, Bill; LIA06 Hoc; PMT01 Hoc; Hoc, PMT12; Browder, Rachel; Erickson, Randy; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta
Subject: RE: Please help me answer this question as soon as possible

Hi Cardelia,
I spoke with Tom. An easy answer may be that the NRC was not invited to the hearings. Please check with the Region IV RSLO. If that POC was not aware of the hearings, you can check with the Region IV DRP Branch Chief and NRR project manager. If neither of them was aware, then the answer to the blog may be that the NRC may not have been aware of the hearings. You could request someone from the California Senate Select Committee to indicate if the NRC was invited.
Rani

From: LIA04 Hoc
Sent: Tuesday, March 22, 2011 11:32 AM
To: Maier, Bill; LIA08 Hoc; LIA06 Hoc; PMT01 Hoc; Hoc, PMT12; Browder, Rachel; Erickson, Randy; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; LIA04 Hoc; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05

Hoc; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta
Subject: FW: Please help me answer this question as soon as possible

Does anyone have information relative to the question below???

Cardelia Maupin
State Liaison
NRC Operations Center

From: Harrington, Holly
Sent: Tuesday, March 22, 2011 11:07 AM
To: LIA04 Hoc
Subject: Please help me answer this question as soon as possible

This question was posted as a blog comment. Before I post it, I'd like to know how to answer:

On March 21, 2011, The California Senate Select Committee on Earthquake and Disaster Preparedness held hearings on the impact and lessons learned from the disaster in Japan. Southern California Edison (SONGS) and Pacific Gas and Electric (Diablo Canyon) made presentations and responded to questioning by Chair Corbett and members of the Committee. Numerous safety related issues were raised and the Commission's licensing process was impugned.
Why wasn't NRC represented at this important meeting?

From: Harrington, Holly
Sent: Wednesday, March 23, 2011 9:42 AM
To: LIA04 Hoc
Cc: LIA06 Hoc; LIA08 Hoc; Maier, Bill; McNamara, Nancy; Erickson, Randy
Subject: RE: I'm still looking for the answer to this question:

Thank you. I just didn't want to forget about it . . .

From: LIA04 Hoc
Sent: Wednesday, March 23, 2011 9:39 AM
To: Harrington, Holly
Cc: LIA06 Hoc; LIA08 Hoc; Maier, Bill; McNamara, Nancy; Erickson, Randy
Subject: RE: I'm still looking for the answer to this question:

Holly,

I passed your question on to the NRC Region IV staff for their action. I have not received an answer from them. I am placing them on "cc" to this email to remind them of this action.

Cardelia Maupin
Liaison Team-State Liaison

From: Harrington, Holly
Sent: Wednesday, March 23, 2011 9:26 AM
To: LIA04 Hoc
Subject: I'm still looking for the answer to this question:

On March 21, 2011, The California Senate Select Committee on Earthquake and Disaster Preparedness held hearings on the impact and lessons learned from the disaster in Japan. Southern California Edison (SONGS) and Pacific Gas and Electric (Diablo Canyon) made presentations and responded to questioning by Chair Corbett and members of the Committee. Numerous safety related issues were raised and the Commission's licensing process was impugned.
Why wasn't NRC represented at this important meeting?

PPR/412

From: LIA04 Hoc
Sent: Wednesday, March 23, 2011 9:57 AM
To: Harrington, Holly
Cc: LIA06 Hoc; LIA08 Hoc; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; LIA04 Hoc; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta
Subject: ACTION CLOSED PER THIS EMAIL: Please help me answer this question as soon as possible
Attachments: March 21st Draft Agenda.doc

Holly,

Please see the response from the Region below. We believe this adequately answers the question.

From: Maier, Bill
Sent: Wednesday, March 23, 2011 9:51 AM
To: LIA08 Hoc; LIA04 Hoc; LIA06 Hoc; PMT01 Hoc; Hoc, PMT12; Browder, Rachel; Erickson, Randy; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta
Cc: Collins, Elmo; Howell, Art
Subject: RE: Please help me answer this question as soon as possible

Yes Cardelia, the "easy answer" offered by LIA08 is correct. The NRC was not invited to this hearing and it is questionable that the agency would have been able to support attendance if requested given the short lead time.

Bill Maier
Region IV

From: LIA08 Hoc
Sent: Tuesday, March 22, 2011 11:55 AM
To: LIA04 Hoc; Maier, Bill; LIA06 Hoc; PMT01 Hoc; Hoc, PMT12; Browder, Rachel; Erickson, Randy; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta
Subject: RE: Please help me answer this question as soon as possible

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Rani

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Sent: Tuesday, March 22, 2011 11:32 AM
To: Maier, Bill; LIA08 Hoc; LIA06 Hoc; PMT01 Hoc; Hoc, PMT12; Browder, Rachel; Erickson, Randy; Easson, Stuart; Flannery, Cindy; Jackson, Deborah; LIA04 Hoc; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Piccone, Josephine; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta
Subject: FW: Please help me answer this question as soon as possible

PPP\413

Does anyone have information relative to the question below???

Cardelia Maupin
State Liaison
NRC Operations Center

From: Harrington, Holly
Sent: Tuesday, March 22, 2011 11:07 AM
To: LIA04 Hoc
Subject: Please help me answer this question as soon as possible

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Why wasn't NRC represented at this important meeting?

Select Committee on Earthquake and Disaster Preparedness, Response and Recovery

The Japan Earthquake: The Impact and Lessons for California Part I

Senate Majority Leader Ellen M. Corbett, Chair

Monday March 21, 2011
12:00 p.m.
Room 4203

I. Overview – Is California at risk for an earthquake and tsunami like Japan experienced?

a. Keith L. Knudsen, Deputy Director, Earthquake Science Center, U.S. Geological Survey
b. John Parrish, California State Geologist

II. The Impact on California of the Japan Earthquake

a. Mike Dayton, Acting Secretary, California Emergency Management Agency
b. John Laird, Secretary of Natural Resources
c. John McCamman, Acting Director, Department of Fish and Game
d. Gregory Smith, Director of Disaster Services, American Red Cross Bay Area Chapter
e. Dr. Howard Backer, Interim Director, Department of Public Health

III. Are California's nuclear power plants safe?

a. James Becker Site Vice President, Diablo Canyon Power Plant, Pacific Gas and Electric
b. Caroline McAndrews, Director of Licensing for San Onofre Power Plant Southern California Edison
c. Daniel Hirsch, Lecturer in nuclear policy at UC Santa Cruz and president of the Committee to Bridge the Gap
d. Commissioner James D. Boyd, California Energy Commission

IV. Can California's Natural Gas Infrastructure Withstand a Major Seismic Event?

a. Kirk Johnson, Vice President Gas Engineering and Operations, Pacific Gas and Electric
b. Joe Rivera, Director of Gas Engineering, Southern California Gas Company
c. Michael Peevey, President
California Public Utilities Commission (invited)

From: LIA02 Hoc
Sent: Wednesday, March 23, 2011 2:39 PM
To: JapanEmbassy, TaskForce
Cc: PMT01 Hoc; LIA03 Hoc
Subject: RE: Request to Japan Meteorological Agency Thru the Japan Embassy Task Force

Mona,

Thank you so much!

From: JapanEmbassy, TaskForce [mailto:JapanEmbassyTaskForce@state.gov]
Sent: Wednesday, March 23, 2011 2:34 PM
To: LIA02 Hoc; JapanEmbassy, TaskForce
Cc: PMT01 Hoc; LIA03 Hoc
Subject: RE: Request to Japan Meteorological Agency Thru the Japan Embassy Task Force

Hello,

We've received your request and we will contact the appropriate individuals who would be able to assist you on this matter. We hope to have a response by today, during our normal business hours.

Best regards,
Mona Camacho
Emergency Action Officer
Japan Emergency Command Center
U.S. Embassy Tokyo

This email is UNCLASSIFIED.

From: LIA02 Hoc [mailto:LIA02.Hoc@nrc.gov]
Sent: Thursday, March 24, 2011 2:50 AM
To: JapanEmbassy, TaskForce
Cc: PMT01 Hoc; LIA03 Hoc
Subject: FW: Request to Japan Meteorological Agency Thru the Japan Embassy Task Force

Good morning,

Please see below request from the NRC Operations Center's Protective Measures Team. If you could kindly assist us with this we would greatly appreciate it.

Kind regards,
NRC International Liaison Desk

From: PMT01 Hoc
Sent: Wednesday, March 23, 2011 1:45 PM
To: LIA01 Hoc; LIA02 Hoc

PPP/414

Cc: Harvey, Brad; Quinlan, Kevin; Brown, David; Galletta, Thomas; Imboden, Andy; Brandon, Lou; Hoc, PMT12
Subject: Request to Japan Meteorological Agency Thru the Japan Embassy Task Force

Folks:

This is to request your assistance thru the Japan Embassy Task Force to obtain available hourly meteorological measurement data from the Japan Meteorological Agency (JMA) for specific monitoring stations near the Fukushima Nuclear Power Plant. The Task Force has been very helpful in expediting previous requests from PMT-Meteorology and focusing the requests on to the appropriate agencies or organizations. The text below can be excerpted for this current request.

Thanks,

Mike Mazaika.
PMT – Meteorology

Over the course of responding to the incidents at the Fukushima Nuclear Power Plant which began March 11, 2011, we have been trying to build a data base of representative meteorological data for the site and surrounding area. We have identified a number of monitoring stations operated by the Japan Meteorological Agency (JMA) located at or near the coast to the north and south of the facility.

Hourly measurements that are readily retrievable from the JMA website appear only to be available for the current and preceding day and must be queried on a regular basis. We do not have a complete set of hourly measurements for the identified stations and would like to obtain data for the parameters measured at these stations and for the dates indicate below. We realize that because of the devastating effects of the tsunami, several stations went out of service. In those cases, we would appreciate confirmation of the operating status thru the indicated time periods and in the case of all stations the provision of any available data during these time periods.

Prefecture	Station	Dates Needed	Current Operating Status
Fukushima	Soma	March 11 – 17	Operating
Fukushima	Haramachi	March 11 – 17	Operating
Fukushima	Namie	March 11 – 18	Not in Service
Fukushima	Tomioka	March 11 – 18	Not in Service
Fukushima	Hirono	March 11 – 18	Not in Service
Fukushima	Taira	March 11 – 18	Operating
Fukushima	Onahama	March 11 – 13, 15 – 18	Operating
Fukushima	Tamakawa (Fukushima Arpt)	March 11 – 13, 15 – 18, 21	Operating
Miyagi	Watari	March 11 – 17	Operating
Miyagi	Natori	March 11 – 18	Not in Service
Miyagi	Sendai (Observatory)	March 11 – 13, 17	Operating
Miyagi	Shiogama	March 11 – 17	Operating
Miyagi	Marumori	March 11 – 21	Operating

We are grateful for your assistance.

Thank you,

Mike Mazaika.
NRC
PMT – Meteorology

From: Henderson, Pamela
Sent: Wednesday, March 23, 2011 9:21 AM
To: PMT03 Hoc
Subject: FW: REMP Reporting Levels and Fukushima

John – more information.

From: Conatser, Richard
Sent: Wednesday, March 23, 2011 8:26 AM
To: Werner, Greg; Henderson, Pamela; Dickson, Billy; Bonser, Brian
Cc: Garry, Steven; Pedersen, Roger; Jimenez, Manuel; Clemons-Webb, Candace; Shoop, Undine
Subject: RE: REMP Reporting Levels and Fukushima

All,

I just wanted to send a follow up email to clarify a particular nuance in the email below that may not be obvious on a casual reading. The licensee is only required to report exceeding the REPORTING LEVELS in the Radiological Environmental Monitoring Program when the activity is due to effluents from their facility and it is averaged over a calendar quarter. This is why my original email says:

> **If** a nuclide concentration exceeds the REPORTING LEVES (averaged over a calendar quarter), the licensee may be required to report the data to the NRC within 30 days. The licensee should take the actions listed in their ODCM.
>
> Because the I-131 (and possibly other radionuclides) from Fukushima will elevate the "background," it will reduce the licensee's ability to differentiate releases from their site. Strong data evaluation and analyses are appropriate at all times, and are particularly applicable at this time.

Here is the nuance that may (or may not) be obvious on a casual reading. If the licensee knows that all the activity in a REMP sample is from the Fukushima facility, then a 30-day report is not required. If, however, the licensee is not able to discern whether the activity is from their facility or not, then they would need to follow their ODCM and take the appropriate actions, which may include a 30-day report to the NRC. Lastly, if the activity is from their facility, then the licensee would be required to make a 30-day report to the NRC.

The key issues are summarized below:

1. licensees need to be aware of their REPORTING LEVELS in their ODCMs,
2. the licensee's data evaluation is extremely important to discern plant-related activity from non-plant related activity,
3. licensees should not immediately assume all activity in REMP samples is from Fukushima,
4. licensees need to take the actions as outlined in their ODCMs (this is always true),
5. if a licensee is unable to make a determination whether the activity is plant-related or not, they may choose to make a 30-day Special Report as listed in their ODCM, and
6. if a licensee knows that all the activity is due to Fukushima, then a 30-day Special Report is not required (as listed in their ODCM).

You may wish to pass this along to the Inspectors in your Regions.

Best Regards,

PPP/415

Richard L. Conatser
Health Physicist
Nuclear Regulatory Commission
301-415-4039
Richard.Conatser@NRC.gov

From: Conatser, Richard
Sent: Monday, March 21, 2011 12:18 PM
To: Werner, Greg; Henderson, Pamela; Dickson, Billy; Bonser, Brian
Cc: Garry, Steven; Pedersen, Roger; Jimenez, Manuel; Clemons-Webb, Candace; Shoop, Undine
Subject: REMP Reporting Levels and Fukushima

All,

You may want to pass this along to your Inspectors who will be on inspections during the next couple of months.

The NRC's REMP REPORTING LEVELs may be exceeded as a result of plumes from Fukushima passing over REMP sampling stations. This email contains some unit conversions for your use. The table below shows the default NRC REPORTING LEVEL for I-131 in REMP samples listed in NUREG-1301 (PWRs) and NUREG-1302 (BWRs). It also converts the REPORTING LEVELS to those units commonly used at the plant sites.

I-131 Reporting Level in NUREG 1301 and NUREG-1302

	I-131	Units	I-131	Units
Drinking Water	2	pCi/L	2E-09	uCi/ml
Non-Drinking Water	20	pCi/L	2E-08	uCi/ml
Air	0.9	pCi/m3	9E-13	uCi/cc

These are default values, and the site-specific values will be in the licensees' ODCMs. The REMP REPORTING LEVELs may be exceeded as a result of plumes from Fukushima passing over REMP sampling stations. The REMP results may vary as various puffs/plumes traverse the US. **If** a nuclide concentration exceeds the REPORTING LEVES (averaged over a calendar quarter), the licensee may be required to report the data to the NRC within 30 days. The licensee should take the actions listed in their ODCM.

Because the I-131 (and possibly other radionuclides) from Fukushima will elevate the "background," it will reduce the licensee's ability to differentiate releases from their site. Strong data evaluation and analyses are appropriate at all times, and are particularly applicable at this time. This is also a good verification of licensee's analytical detection capabilities.

Best Regards,

Richard L. Conatser
Health Physicist
Nuclear Regulatory Commission
301-415-4039
Richard.Conatser@NRC.gov

From: PMT03 Hoc
Sent: Wednesday, March 23, 2011 10:44 AM
To: Hoc, PMT12
Subject: FW: Millstone

FYI and action as appropriate.

John Wray

From: Henderson, Pamela
Sent: Wednesday, March 23, 2011 10:43 AM
To: Setzer, Thomas; Clifford, James; Wilson, Peter; Weerakkody, Sunil
Cc: PMT03 Hoc; Moslak, Thomas; Jackson, Donald
Subject: Millstone

New report from Milestone on elevated levels of I-131.

2.56 E-8 uCi/ml = 26 pCi/liter. The level for a 30 day report is 20 pCi/l. However, if the licensee believes that the levels are attributable to the incident in Japan then they do not have to report... However, I heard from HQ PMT that HQ is working on issuing something similar to IN 86-32 which asked licensees to report levels concerning the Chernobyl incident...

PPP/416

From: test@ft.ctf.nrc.gov
Sent: Wednesday, March 23, 2011 9:17 AM
To: Roundtree, Amy
Subject: requested paperwork
Attachments: [Untitled].pdf

Please open the attached document. This document was digitally sent to you using an HP Digital Sending device.

PPP/417

STATEMENT
by
William Levis
President and Chief Operating Officer
PSEG Power LLC
to the
Subcommittee on Energy and Water Development
Committee on Appropriations
U.S. Senate

March 30, 2011

Chairman Feinstein, Ranking Member Alexander, and members of the subcommittee, thank you for the opportunity to appear before you today.

My name is William Levis. I am President and Chief Operating Officer of PSEG Power which is a subsidiary of Public Service Enterprise Group, headquartered in Newark, New Jersey. PSEG Power is a merchant generating company and owns approximately 14,000 megawatts of electric generating capacity. We own 100 percent of the Hope Creek nuclear generating station, 57 percent of the Salem nuclear station, and 50 percent of the Peach Bottom nuclear station. PSEG Power operates Salem and Hope Creek; Exelon operates Peach Bottom. Salem consists of two pressurized water reactors; Hope Creek is a single boiling water reactor; the Peach Bottom station has two boiling water reactors.

I appreciate your invitation to testify at today's hearing to discuss the status of the U.S. nuclear energy industry and the implications of the Fukushima nuclear accident on nuclear energy in the United States. I am testifying today on behalf of the Nuclear Energy Institute, the nuclear energy industry's Washington-based policy organization. NEI members include all companies licensed to operate commercial nuclear power plants in the United States, nuclear plant designers, major architect/engineering firms, fuel fabrication facilities, materials licensees, and other organizations and individuals involved in the nuclear energy industry.

My remarks will cover four major points:

First, U.S. nuclear power plants are safe.

Second, safety is the U.S. nuclear energy industry's top priority.

Third, the U.S. nuclear energy industry has a long history, over several decades, of continuous learning from operational events, and we have incorporated lessons learned into our nuclear plant designs and our operating practices and training. We will do the same as a result of the Fukushima accident.

And fourth, the U.S. nuclear energy industry has already taken pro-active steps to verify and validate our readiness to manage extreme events. We took these steps early – without waiting for clarity on the sequence of failures at Fukushima.

Before I address these four points, however, let me note that the U.S. nuclear energy industry works very hard not to grow complacent about safety. This is not always easy when our 104 nuclear power plants are operating well, with an average capacity factor above 90 percent for the last 10 years. Similarly, we cannot be complacent about the accident at Fukushima. I cannot tell you at this moment whether or not

we will discover previously unknown vulnerabilities at America's nuclear power plants, but I am quite confident that we will learn important lessons from Fukushima and identify additional steps we can and will take to further improve the margin of safety at our nuclear plants.

U.S. Nuclear Power Plants Are Safe

That said, we do believe U.S. nuclear power plants are safe. They are designed and operated conservatively to manage the maximum credible challenges appropriate to each nuclear power plant site. U.S. nuclear power plants have also demonstrated their ability to maintain safety through extreme conditions, including floods and hurricanes and other natural disasters.

I can think of no better summary of the status of U.S. nuclear power plants than the one delivered by President Obama to the American people on March 17. Mr. Obama said: "Our nuclear power plants have undergone exhaustive study, and have been declared safe for any number of extreme contingencies. But when we see a crisis like the one in Japan, we have a responsibility to learn from this event, and to draw from those lessons."

We invest heavily in our operating plants to ensure safe, reliable operation. The U.S. nuclear energy industry invested approximately $6.5 billion in 2009 in our 104 operating plants – to replace steam generators, reactor vessel heads and other equipment and in other capital projects.

U.S. nuclear reactors are designed to withstand earthquakes, tsunamis, hurricanes, floods, tornadoes and other natural events equal to the most significant historical event or the maximum projected event, plus an added margin for conservatism, without any breach of safety systems. We have many, many examples of U.S. nuclear power plants achieving safe shutdown during extreme events where offsite power was lost. During Hurricane Katrina in 2005, for example, the Waterford nuclear power plant in Louisiana shut down safely, lost all off-site power, and maintained safe shutdown on emergency diesel generators for three-and-a-half days until grid power was restored.

For earthquakes, nuclear plants are designed and constructed to withstand the maximum projected earthquake that could occur in its area, with additional margin added. Plant earthquake-induced ground motion is developed using a wide range of data and review of the impacts of historical earthquakes up to 200 miles away. Those earthquakes within 25 miles are studied in great detail. This research is used to determine the maximum potential earthquake that could affect the site. Each reactor is built to withstand the respective strongest earthquake; for example, a site that features clay over bedrock will respond differently during an earthquake than a hard-rock site.

It is important not to extrapolate earthquake and tsunami data from one location of the world to another when evaluating these natural hazards. These catastrophic natural events are very region- and location-specific, based on tectonic and geological fault line locations. The Tohoku earthquake that struck the Fukushima nuclear power plant occurred on a "subduction zone," the type of tectonic region that produces earthquakes of the largest magnitude. A subduction zone is a tectonic plate boundary where one tectonic plate is pushed under another plate. Subduction zone earthquakes are also required to produce the kind of massive tsunami seen in Japan.

In the continental U.S., the only subduction zone is the Cascadia subduction zone which lies off the coast of northern California, Oregon and Washington. In an assessment released last week, the California Coastal Commission concluded that a "nuclear emergency such as is occurring in Japan is extremely unlikely at the state's two operating nuclear power plants. The combination of strong ground motion and massive tsunami that occurred in Japan cannot be generated by faults near the San Onofre Nuclear Generating Station and the Diablo Canyon Power Plant."

Safety Is the U.S. Nuclear Energy Industry's Top Priority

This leads to my second point: Safety is the U.S. nuclear energy industry's top priority, and complacence about safety performance is not tolerated.

We know we operate in an unforgiving environment where the penalties for mistakes are high and where credibility and public confidence, once lost, are difficult to recover.

All of the safety-related metrics tracked by industry and the Nuclear Regulatory Commission demonstrate high levels of excellence. Forced outage rates, unplanned safety system actuations, worker radiation exposures, events with safety implications, and lost-time accident rates have all trended down, year over year, for a number of years.

We can have confidence in nuclear plant safety based on those indicators, but we should derive even greater confidence from the process that produces those indicators, from the institutions we have created to share best practices, to establish standards of excellence and to implement programs that hold us to those standards.

After the 1979 accident at Three Mile Island, the nuclear industry created the Institute of Nuclear Power Operations (INPO). In INPO, the nuclear industry — unique among American industries — has established an independent form of self-regulation through peer review and peer pressure. In fact, the President's Oil Spill Commission, in its report on the Deepwater Horizon accident, identified INPO as the model for self-regulation by the offshore oil and gas industry.

INPO is empowered to establish performance objectives and criteria, and nuclear operating companies are obligated to implement improvements in response to INPO findings and recommendations. At its headquarters in Atlanta, INPO has some 350 people monitoring nuclear plant operations and management on a daily basis. INPO evaluates every U.S. nuclear plant every two years, and deploys training teams to provide assistance to companies in specific areas identified as needing improvement during an evaluation.

INPO provides management and leadership development programs, and manages the National Academy of Nuclear Training, which conducts formal training and accreditation programs for those responsible for reactor operation and maintenance.

Among its many activities, INPO maintains an industrywide database called EPIX — for Equipment Performance and Information Exchange — and all companies are required to report equipment problems into EPIX. EPIX catalogues equipment problems and shows, for example, expected mean time between failures, which allows the industry to schedule predictive and preventive maintenance, replacing equipment before it fails, avoiding possible challenges to plant safety. INPO also maintains a system called Nuclear Network that allows companies to report and share information about operating events, to ensure that an unexpected event at one reactor is telegraphed to all, to ensure that an event at one plant is not repeated elsewhere, to ensure high levels of vigilance and readiness.

It may not be obvious to the outside world, but we have an enormous self-interest in safe operations. We preserve and enhance the asset value of our 104 operating plants first and foremost by maintaining focus on safety. Safety is the basis for regulatory confidence, and for political and public support of this technology.

The U.S. Nuclear Energy Industry Has a Long History of Continuous Learning

My third point: The U.S. industry routinely incorporates lessons learned from operating experience into its reactor designs and operations. U.S. nuclear power plants have implemented numerous plant and procedural improvements over the past 30 years. Some of these improvements have been designed to mitigate severe natural and plant-centered events similar to those experienced at the Fukushima nuclear power plant. In addition, the equipment and procedures could be used to mitigate other severe abnormal events. The type of events include a complete and sustained loss of AC power, a sustained loss of vital cooling water pumps, major fires and explosions that would prevent access to critical equipment, hydrogen control and venting, and loss of multiple safety systems.

Starting in the 1990s, U.S. nuclear power plants developed guidelines to manage and mitigate these severe events that are beyond the normal design specifications. Plants evaluated site-specific vulnerabilities and implemented plant and procedural improvements to further improve safety. These severe accident management guidelines were developed in response to probabilistic risk assessments (PRAs), which identified several high-risk accident sequences. These guidelines provide operators and emergency managers with pre-determined strategies to mitigate these events The strategies focus on protecting the containment as it assumes the fuel clad and reactor cooling system are lost.

I could point to many, many examples of improvements made to U.S. nuclear power plants over the years in response to lessons learned from operational events. Let me list just a few:

- In the 1970s, concerns were raised about the ability of the BWR Mark I containment to maintain its design during an event when steam is vented to the torus. Subsequently, every United States Operator with a Mark I containment implemented modifications to dissipate energy released to the suppression pool and stringent supports to accommodate loads that could be generated.
- As a result of the Three Mile Island accident, the industry made significant improvements to control room configuration and operator training. After that accident, which underscored the need for information to be better displayed in control rooms, all U.S. nuclear power plants installed safety parameter display systems. A safety parameter display system collects and displays critical safety information at a workstation in the control room and other locations in the plant. Information on the status of key conditions, such as reactor core cooling, is displayed in a clear format on a computer screen. The information displayed enables the nuclear plant operators to assess plant conditions rapidly and take corrective actions. Before the accident at Three Mile Island, many U.S. nuclear power plant trained their operators on generic simulators located off-site. Today, every U.S. nuclear reactor has a reactor-specific simulator on site, with one shift of operators always in training. Finally, our current emergency preparedness programs grew from the lessons we learned at TMI and we now routinely drill with our state and local emergency management agencies to ensure we can appropriately communicate with the public during emergencies.
- In 1988, the Nuclear Regulatory Commission concluded that additional Station Black Out (SBO) regulatory requirements were justified and issued the Station Black Out rule (10 CFR 50.63) to provide further assurance that a loss of both offsite and onsite emergency AC power systems would not adversely affect public health and safety. The SBO rule was based on several plant-specific probabilistic safety studies; operating experience; and reliability, accident sequence, and consequence analyses completed between 1975 and 1988.
- Since the terrorist events of September 11, 2001, U.S. nuclear plant operators identified other beyond-design-basis vulnerabilities. As a result, U.S. nuclear plant designs and operating practices since 9/11 are designed to mitigate severe accident scenarios such as aircraft impact, which include the complete loss of offsite power and all on-site emergency power sources *and* loss of large areas of the plant. The industry developed additional methods and procedures to provide cooling to the reactor and the spent fuel pool, and staged additional equipment at all U.S.

nuclear power plant sites to ensure that the plants are equipped to deal with extreme events and nuclear plant operations staff are trained to manage them. .

The U.S. Nuclear Energy Industry Has Already Taken Steps in Response to Fukushima

The U.S. nuclear energy industry has already started an assessment of the events in Japan and is taking steps to ensure that U.S. reactors could respond to events that may challenge safe operation of the facilities. These actions include:

- Verifying each plant's capability to manage major challenges, such as aircraft impacts and losses of large areas of the plant due to natural events, fires or explosions. Specific actions include testing and inspecting equipment required to mitigate these events, and verifying that qualifications of operators and support staff required to implement them are current.
- Verifying each plant's capability to manage a total loss of off-site power. This will require verification that all required materials are adequate and properly staged and that procedures are in place, and focusing operator training on these extreme events.
- Verifying the capability to mitigate flooding and the impact of floods on systems inside and outside the plant. Specific actions include verifying required materials and equipment are properly located to protect them from flood.
- Performing walk-downs and inspection of important equipment needed to respond successfully to extreme events like fires and floods. This work will include analysis to identify any potential that equipment functions could be lost during seismic events appropriate for the site, and development of strategies to mitigate any potential vulnerabilities.

Until we understand clearly what has occurred at the Fukushima Daiichi nuclear power plants, and any consequences, it is difficult to speculate about the long-term impact on the U.S. nuclear energy program. The U.S. nuclear industry, the U.S. Nuclear Regulatory Commission, the Institute of Nuclear Power Operations, the World Association of Nuclear Operators and other expert organizations in the United States and around the world will conduct detailed reviews of the accident, identify lessons learned (both in terms of plant operation and design), and we will incorporate those lessons learned into the design and operation of U.S. nuclear power plants. When we fully understand the facts surrounding the event in Japan, we will use those insights to make nuclear energy even safer.

In the long-term, we believe that the U.S. nuclear energy enterprise is built on a strong foundation:

- reactor designs and operating practices that incorporate a defense-in-depth approach and multiple levels of redundant systems
- a strong, independent regulatory infrastructure, which includes continuous assessment of every U.S. reactor by the Nuclear Regulatory Commission, with independent inspectors permanently on site and additional oversight from NRC regional offices and headquarters
- a transparent regulatory process that provides for public participation in licensing decisions, and
- a continuing and systematic process to identify lessons learned from operating experience and to incorporate those lessons.

In conclusion, Madame Chairman, let me leave you with a short-term and a longer-term perspective.

In the short term, all of us involved with the production of electricity from nuclear energy in the United States stand in awe of the commitment and determination of our colleagues in Japan, as they struggle to bring these crippled reactors to safe shutdown.

In the longer term, it will be some time before we understand the precise sequence of what happened at Fukushima, before we have a complete analysis of how the reactor performed, how equipment and fuel performed, how the operators performed. As we learn from this tragic event, however, you may rest assured that we will internalize those lessons and incorporate them into our designs and training and operating procedures.

■

From: LIA05 Hoc
Sent: Wednesday, March 23, 2011 7:14 AM
To: Dan Feighert; Andrew Seward; Harry Sherwood; John Simpson; Michelle Ralston; Steve Horwitz; Tim Greten; Vanessa E. Quinn
Attachments: Log for FEMA Liaison 03222011.docx

Per your request

Bonnie Sheffield Dayshift 0700-1500
Ken Wierman Nightshift 1500-2300
FEMA REP Liaison
NRC Operations Center
(301) 816-5187

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PPP/418

FEMA Liaison LOG
NRC Operations Center (NRCOC)
DATE: March 22, 2011

TIME	ENTRY
0630	Harry Nash, FEMA HQ reported and assumed duty at the NRCOC. Reported to the NRCOC Liaison Operations Director.
0655	FEMA Liaison Log forwarded to FEMA Contact List.
0733	NRC SITREP forwarded to FEMA Contacts.
0747	NRC HOC requested information from FEMA on next FRPCC meeting.
0850	NRC Ops Ctr tasked with providing comments on DART Team Supplement.
0910	ET Director confirmed that NRC Chairman spoke with Senior FEMA authorities who responded to DART Team Supplement tasking.
1042	Message forwarded from FEMA HQ to NRC Operations Center concerning release of FEMA SITREP information to the public. FEMA's response is to not release any information concerning FEMA SITREP to pubic.
1108	Federal Liaison confirmed receipt of FRPCC requested information from FEMA HQ.
1500	Kenneth Wierman assumed the FEMA Liaison Watch.
1500	Requested good contact information for NASA Emergency Management.
1551	Request REPP HQ attendance on a DHS - Office of Intelligence and Analysis (I&A) on response to the Fukushima Daiichi reactor in Japan during one of its periodic teleconferences with State and local stakeholders. The tentative call scheduled to take place 12noon-2pm, Thursday, March 24, 2011.
1630	Transmitted NASA Contact information to the Federal Liaison.
1635	Received the FEMA Liaison Watchbill from Al Coons. The watch rotation is scheduled through the end of April.
1812	Received request for review on "Design Basis Threat" Talking Points.
1836	Transmitted response to the aforementioned request after review by the seismology group of the Reactor Safety Team.
1837	Transmitted the 1800 NRC Status Update.
2000	Request from State Liaisons to obtain information from Ms. Helen Sterling (CBP) on information regarding radiological monitoring of aircraft, passengers, luggage and cargo. Ms. Sterling responded that she will send the information tomorrow morning.
2300	Secured the FEMA Liaison Watch
	NO FURTHER ENTRIES THIS DATE

From: ET05 Hoc
Sent: Wednesday, March 23, 2011 7:04 AM
To: FOIA Response.hoc Resource
Subject: FW: RESPONSE - Richland Safe Haven

From: Wiggins, Jim
Sent: Tuesday, March 22, 2011 7:32 PM
To: ET05 Hoc
Subject: FW: RESPONSE - Richland Safe Haven

From: Kinneman, John
Sent: Tuesday, March 22, 2011 7:31 PM
To: Wiggins, Jim; Bailey, Marissa
Subject: Re: RESPONSE - Richland Safe Haven

Will do.
Sent from NRC Blackberry
John Kinneman

From: Wiggins, Jim
To: Kinneman, John
Sent: Tue Mar 22 19:16:04 2011
Subject: FW: RESPONSE - Richland Safe Haven

TH

John...this is not a response team issue. Should be dealt with by NMSS...

From: Miller, Chris
Sent: Tuesday, March 22, 2011 5:50 PM
To: Weber, Michael
Cc: Wiggins, Jim; ET05 Hoc; Holahan, Patricia; Morris, Scott
Subject: FW: RESPONSE - Richland Safe Haven

Dori called AREVA. They believe the shipment is somewhere near transiting the Panama Canal. AREVA Transnuclear is the shipper and will have to determine where it will go since Richland can't take it. They will call Dori back once they determine where it is. Dan Noss is MC&A Supv for AREVA Richland 509-375-8380.

From: OST02 HOC
Sent: Tuesday, March 22, 2011 5:33 PM
To: Miller, Chris; Wiggins, Jim; Holahan, Patricia
Subject: FW: RESPONSE - Richland Safe Haven

For Your Info...

PPP/419

From: Weber, Michael
Sent: Tuesday, March 22, 2011 5:14 PM
To: PMT01 Hoc
Cc: OST02 HOC; ET01 Hoc; Bailey, Marissa; Frazier, Alan; Kinneman, John; Haney, Catherine; Evans, Michele
Subject: RESPONSE - Richland Safe Haven

Seems like we need to know where the 20% enriched uranium is right now.

From: Haney, Catherine
Sent: Tuesday, March 22, 2011 9:07 AM
To: Bailey, Marissa; Kinneman, John
Cc: Habighorst, Peter; Weber, Michael
Subject: Re: Richland Safe Haven

Please make the ET is the Ops center aware of this information. Use the Liaison team if you can't get to ET via HOO.

From: Bailey, Marissa
To: Kinneman, John; Haney, Catherine
Cc: Habighorst, Peter
Sent: Tue Mar 22 08:56:40 2011
Subject: FW: Richland Safe Haven

FYI – There's of shipment of 20% enriched research reactor fuel from France to Japan that now the Japanese is not ready to accept. For a while, there was discussion of whether the fuel could go to AREVA-Richland for short term storage, but that is no longer a consideration. We don't know what's been worked out, but will let you know if we hear more.

From: Habighorst, Peter
Sent: Tuesday, March 22, 2011 7:12 AM
To: Bailey, Marissa
Cc: Owens, Janice; Horn, Brian; Tuttle, Glenn
Subject: FW: Richland Safe Haven

From: Tuttle, Glenn
Sent: Tuesday, March 22, 2011 7:11 AM
To: Horn, Brian; Habighorst, Peter
Subject: FW: Richland Safe Haven

fyi

From: NOSS Dan (AREVA) [mailto:Dan.Noss@areva.com]
Sent: Monday, March 21, 2011 6:29 PM
To: Tuttle, Glenn
Subject: Richland Safe Haven

Glenn,

We have bee advised that the shipment of 20% research reactor fuel bound for Japan from France will not need to come to Richland for short term storage. I am not certain what has been worked out, but Areva Richland is not in the mix.

Thanks for your support,

Dan Noss

Supervisor, MC&A

AREVA NP Inc.

An AREVA and Siemens Company

2101 Horn Rapids

Road Richland, WA 99354

Phone: 509-375-8380

Fax: 509-375-8707

dan.noss@areva.com

From: Emche, Danielle
Sent: Wednesday, March 23, 2011 12:41 PM
To: Mitchell, Linda
Cc: LIA02 Hoc; LIA03 Hoc; Stahl, Eric
Subject: blackberries for Danielle and Eric

Linda,
I am leaving Saturday for Japan, I believe Eric is leaving on Monday. Can you let us know how our blackberries will be handled? I believe I used mine in the Japan when I was there, Eric may need to have one re-issued.
Danielle

PPP/420

From: Taylor, Robert
Sent: Wednesday, March 23, 2011 12:40 PM
To: LIA03 Hoc; LIA02 Hoc
Subject: FW: TRAVEL AUTHORIZATION FOR TAYLOR/R IS NEEDED IMMEDIATELY

LT,

I called the travel agency to have them correct the spelling of my middle name so I wouldn't have any trouble tomorrow. That is now fine. However, a person called back and left a garbled message indicating among other things that they couldn't issue my ticket until I sent them my travel authorization. The person's name was not clear on the message but he/she indicated that they were calling from the Salt Lake City office. I tried to return the call (800-585-2232) but the automated system was a nightmare to navigate.

I guess my question is, have our tickets been issued? Is there anything else the departing team needs to do?

Regards,
Rob

From: MANASSAS TRAVEL [mailto:usaid@manassastravel.com]
Sent: Wednesday, March 23, 2011 11:42 AM
To: Taylor, Robert; travel@ofda.gov; rmtpactsu_ac@ofda.gov
Subject: TRAVEL AUTHORIZATION FOR TAYLOR/R IS NEEDED IMMEDIATELY

Manassas Travel is pleased to deliver your complete travel itinerary through Sabre® Virtually There®.

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PAPP 42

https://www.virtuallythere.com/new/reservationsChron.html?host=1W&pnr=KW9H61RRH94H&name=TAYLOR&language=0&email=2

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From: Stahl, Eric
Sent: Wednesday, March 23, 2011 9:38 AM
To: MIEUSSET Thomas; CHEIKH-ALI Ahmad
Cc: LIA02 Hoc; LIA03 Hoc
Subject: Call with NRC, HSE and CNSC

Thomas and Ahmad –

Staff in our Operations Center asked me to contact you regarding French participation in a daily call concerning health physics/radiation protection/dose between the NRC Protective Measures Team, HSE and CNSC. ASN and IRSN are invited to participate in the call, which takes place daily at 2:00pm (Washington time). If your organizations would like to participate, please have them call the operator at +1 301-816-5100 and ask for the UK/Canada/*France?* call.

Thanks,
Eric

PPP/422

From: Lukes, Kim
Sent: Wednesday, March 23, 2011 10:46 AM
To: OST05 Hoc
Subject: Out of Office: California Hearing and NRC

This is an automatic reply. I will be out of the office on March 23 and return on March 24.

If you have any questions or concerns that need immediate attention, please contact my branch chief, Adelaide Giantelli, at 301-415-3521 or at Adelaide.Giantelli@nrc.gov.

Thank you!

PPP/423

From: LIA02 Hoc
Sent: Wednesday, March 23, 2011 7:40 AM
To: Kolb, Timothy
Cc: LIA03 Hoc
Subject: RE: Return travel plans

Different

Tim,

I hope you're feeling better. We will get you the assistance you need. Stand by.

From: Kolb, Timothy
Sent: Wednesday, March 23, 2011 7:08 AM
To: LIA02 Hoc
Subject: RE: Return travel plans

Information regarding filling out a travel voucher because nothing is in my etravel.

From: LIA02 Hoc
Sent: Wednesday, March 23, 2011 6:52 AM
To: Kolb, Timothy
Subject: RE: Return travel plans

What sort of assistance do you need? Is there any specific information you are looking for?

From: Kolb, Timothy
Sent: Wednesday, March 23, 2011 6:49 AM
To: LIA02 Hoc
Subject: RE: Return travel plans

Hello,
I came back early (March 19) due to health reasons. Who can I contact to get help with my travel orders and submitting my voucher?
Thanks,
Tim Kolb

From: LIA02 Hoc
Sent: Tuesday, March 22, 2011 12:35 PM
To: Liaison Japan
Cc: Matheson, Mary; Mamish, Nader; LIA03 Hoc
Subject: Return travel plans

Good morning NRC Japan Team,

Please advise the Ops Center if any members of the original team plan to remain in Japan beyond March 31. We need this information because evidently you may require supplemental travel orders. Please reply to LIA02 and LIA03 with this information.

Thank you!

PPP/424

National Liaison Desk

From: Henderson, Karen
Sent: Wednesday, March 23, 2011 8:38 AM
To: LIA02 Hoc; LIA03 Hoc
Cc: Ramsey, Jack; Smith, Brooke; Foggie, Kirk; Doane, Margaret; Mamish, Nader
Subject: FW: web addresses on the earthquake in Japan

FYI -- share as appropriate.

This information is from the Japanese Government to DOE/Ed McGinnis, U.S. representative to the International Framework for Nuclear Energy Cooperation Steering Group. (IFNEC is the current version of the Global Nuclear Energy Partnership.)

-----Original Message-----
From: naoki.kajita@cao.go.jp [mailto:naoki.kajita@cao.go.jp]
Sent: Tuesday, March 22, 2011 10:39 PM
To: Edward.McGinnis@Nuclear.Energy.Gov
Subject: web addresses on the earthquake in Japan

Dear IFNEC Steering Group Representatives,

Regarding the Tohoku Region Pacific Coast Earthquake, I would like to inform the following web addresses with a view to share the relevant information.

<Information Update on Fukushima Nuclear Power Station>

Prime Minister's Office
Countermeasures for 2011 Tohoku - Pacific Ocean Earthquake http://www.kantei.go.jp/foreign/incident/index.html

Ministry of Economy, Trade and Industry (METI) Measures and Requests in response to Tohoku - Pacific Ocean Earthquake http://www.meti.go.jp/english/index.html

Nuclear and Industrial Safety Agency (METI-NISA) Seismic Damage Information from NISA
http://www.nisa.meti.go.jp/english/index.html

Ministry of Education, Culture, Sports, Science and Technology (MEXT)
2011 Tohoku - Pacific Ocean Earthquake
http://www.mext.go.jp/english/topics/1303717.htm

Tokyo Electric Power Company (TEPCO)
http://www.tepco.co.jp/en/index-e.html

It is appreciated if the Representatives can let the people who are concerned about earthquake know about the above-mentioned information.

Naoki KAJITA
IFNEC Steering Group Vice Chair
and

PPP/425

Deputy Director General for Science and Technology Policy Cabinet Office of Japan

From: Stern, Warren <Warren.Stern@dhs.gov>
Sent: Wednesday, March 23, 2011 6:01 AM
To: LIA03 Hoc; Stern, Warren m; CAT, OPS
Cc: PittsUE@state.gov
Subject: Re: Iaea

Pls see if you can track the reports down before the Deputies committee SVTS this morning.

Than you

----- Original Message -----
From: Stern, Warren
Sent: Wednesday, March 23, 2011 05:46 AM
To: 'LIA03.Hoc@nrc.gov' <LIA03.Hoc@nrc.gov>; 'Warren.Stern@dhs.gov' <Warren.Stern@dhs.gov>; 'OPS.Cat@dhs.gov' <OPS.Cat@dhs.gov>
Cc: 'PittsUE@state.gov' <PittsUE@state.gov>
Subject: Re: Iaea

No. Additional IAEA information is also transmitted to NRC from the US Mission in Vienna and has been througout the crisis.

Thank you

----- Original Message -----
From: LIA03 Hoc [mailto:LIA03.Hoc@nrc.gov]
Sent: Wednesday, March 23, 2011 05:38 AM
To: Stern, Warren <Warren.Stern@dhs.gov>; OPS.CAT <OPS.Cat@dhs.gov>
Subject: RE: Iaea

We are getting our information from the IAEA website: http://www.iaea.org/

Not sure if you were looking for something specific. Please let me know.

Thanks

-----Original Message-----
From: Stern, Warren [mailto:Warren.Stern@dhs.gov]
Sent: Wednesday, March 23, 2011 5:35 AM
To: LIA03 Hoc; OPS.CAT
Subject: Iaea

Pls forward the most recent IAEA reports to me and dhs ops.cat.

Thank you

PPP/426

From: Stern, Warren <Warren.Stern@dhs.gov>
Sent: Wednesday, March 23, 2011 7:50 AM
To: LIA03 Hoc; Stern, Warren m; CAT, OPS
Cc: LIA11 Hoc
Subject: Re: Iaea

No. That is the point. Throughout this, the Deputies turn to me and ask about IAEA updates. I give them what I have backchannel, but also tell them NRC, DOE, EPA and State have the information through ENAC. Then I here in the background, 'ENAC??'. Not a good process. So, yes pls send login information.

Thank you

----- Original Message -----
From: LIA03 Hoc [mailto:LIA03.Hoc@nrc.gov]
Sent: Wednesday, March 23, 2011 07:45 AM
To: Stern, Warren <Warren.Stern@dhs.gov>; OPS.CAT <OPS.Cat@dhs.gov>
Cc: LIA11 Hoc <LIA11.Hoc@nrc.gov>
Subject: RE: Iaea

Warren - do you still have the ENAC log in? All of this information is coming from there.

-----Original Message-----
From: Stern, Warren [mailto:Warren.Stern@dhs.gov]
Sent: Wednesday, March 23, 2011 7:20 AM
To: LIA03 Hoc; Stern, Warren; OPS.CAT
Cc: LIA11 Hoc
Subject: RE: Iaea

Thank you! I would appreciate it if you would ensure that these keep coming to me as they are received.

-----Original Message-----
From: prvs=05696c268=LIA03.Hoc@nrc.gov
[mailto:prvs=05696c268=LIA03.Hoc@nrc.gov] On Behalf Of LIA03 Hoc
Sent: Wednesday, March 23, 2011 7:11 AM
To: Stern, Warren; OPS.CAT
Cc: LIA11 Hoc
Subject: RE: Iaea

As requested.

-----Original Message-----
From: Stern, Warren [mailto:Warren.Stern@dhs.gov]
Sent: Wednesday, March 23, 2011 5:35 AM
To: LIA03 Hoc; OPS.CAT
Subject: Iaea

Pls forward the most recent IAEA reports to me and dhs ops.cat.

prep/427

Thank you

From: LIA02 Hoc
Sent: Wednesday, March 23, 2011 12:43 PM
To: Doane, Margaret; Shaffer, Mark R; Smith, Brooke; Mamish, Nader
Cc: Foggie, Kirk; Schwartzman, Jennifer; LIA03 Hoc
Subject: RE: IAEA Clearinghouse

See my related note about the IAEA's request for us to provide information to update their "offers for assistance" table.

From: Doane, Margaret
Sent: Wednesday, March 23, 2011 12:34 PM
To: Shaffer, Mark R; Smith, Brooke; Mamish, Nader
Cc: Foggie, Kirk; Schwartzman, Jennifer; LIA02 Hoc; LIA03 Hoc
Subject: RE: IAEA Clearinghouse

Totally agree!

From: Shaffer, Mark R [mailto:ShafferMr@state.gov]
Sent: Wednesday, March 23, 2011 12:33 PM
To: Doane, Margaret; Smith, Brooke; Mamish, Nader
Cc: Foggie, Kirk; Schwartzman, Jennifer; LIA02 Hoc; LIA03 Hoc
Subject: RE: IAEA Clearinghouse

Personally, I think IAEA should contact Japan and make the offer to help. But, again, Member States (like the U.S. and others) have to be willing to play ball and give IAEA all of the information about what is being done bilaterally; otherwise the list is only going to cause more problems due to the inaccuracies.

This email is UNCLASSIFIED.

From: Doane, Margaret [mailto:Margaret.Doane@nrc.gov]
Sent: Wednesday, March 23, 2011 5:24 PM
To: Smith, Brooke; Shaffer, Mark R; Mamish, Nader
Cc: Foggie, Kirk; Schwartzman, Jennifer; LIA02 Hoc; LIA03 Hoc
Subject: RE: IAEA Clearinghouse

Putting aside the policy issues of pushing them to do yet another thing, I would prefer for the IAEA to raise this with them, because otherwise there may be confusion over whether we are pushing them to invoke the Convention, or if somehow this would be the same implication, etc. Ideally, IAEA would contact them and make this offer and make it clear that IAEA can do this even if the convention is not invoked. That message coming from a member State doesn't make sense to me.
What are your thoughts?
Margie

From: Smith, Brooke
Sent: Tuesday, March 22, 2011 7:43 PM
To: Shaffer, Mark R; Doane, Margaret; Mamish, Nader
Cc: Foggie, Kirk; Schwartzman, Jennifer; LIA02 Hoc; LIA03 Hoc
Subject: RE: IAEA Clearinghouse

prep/428

Thanks Mark.

Margie - What are you thoughts on raising this with our Japanese counterparts. Thanks, Brooke

---

From: Shaffer, Mark R [ShafferMr@state.gov]
Sent: Tuesday, March 22, 2011 7:23 AM
To: LIA02 Hoc
Cc: LIA03 Hoc; Smith, Brooke; Doane, Margaret; Schwartzman, Jennifer; Mamish, Nader
Subject: IAEA Clearinghouse

Attached is a summary of my meeting with IEC this morning.

Please note that I have determined that the **attached document is for "OFFICIAL USE ONLY" and contains information from foreign governments that should not be shared outside of official channels.**

This email is UNCLASSIFIED.

From: Leeds, Eric
To: Sheron, Brian
Cc: Weber, Michael
Subject: FW: Heads up: Meeting today with EDO
Date: Wednesday, March 23, 2011 8:43:00 AM

As we discussed. Please share with Mike Weber's other direct reports. Thanks!

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Leeds, Eric
Sent: Wednesday, March 23, 2011 8:28 AM
To: Collins, Elmo; Howell, Art; Pederson, Cynthia; West, Steven; McCree, Victor; Wert, Leonard; Dean, Bill; Lew, David; Johnson, Michael; Holahan, Gary; Evans, Michele; Wiggins, Jim
Cc: Boger, Bruce; Grobe, Jack; Ruland, William; Virgilio, Martin
Subject: Heads up: Meeting today with EDO

At this morning's 8 am, Bill asked EDO staff to set up a meeting between him and the ODs/RAs to discuss (1) impacts of responding to Fukushima – what isn't getting done (2) our need for deputies, BCs, TLs, etc to step up while folks are responding and (3) the need to keep work moving even if key members in the concurrence chain are not available.

Last I heard the meeting was to be set up for 12:30 to 1:30 eastern time in the ACRS room, but that could change.

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

ppp/429

From: Dean, Bill
To: Leeds, Eric
Subject: Re: Heads up: Japan evacuations
Date: Wednesday, March 23, 2011 2:27:16 PM

Even better! Evacuate with no rationale.
Bill Dean
Regional Administrator
Region I, USNRC
Sent from NRC BlackBerry

From: Leeds, Eric
To: Brenner, Eliot; Hayden, Elizabeth
Cc: Borchardt, Bill; Virgilio, Martin; Weber, Michael; Johnson, Michael; Holahan, Gary; Wiggins, Jim; Evans, Michele; Miller, Charles; Sheron, Brian; Uhle, Jennifer; Doane, Margaret; Mamish, Nader; Grobe, Jack; Boger, Bruce; Ruland, William; Dean, Bill; McCree, Victor; Pederson, Cynthia; Howell, Art; Batkin, Joshua
Sent: Wed Mar 23 14:24:17 2011
Subject: Heads up: Japan evacuations

FYI - I asked our contact at the NEA for info on other countries evacuating around Fukushima. Some other members of the international community followed the US recommendation. Some did other things See below and attached.

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Diane.JACKSON@oecd.org [mailto:Diane.JACKSON@oecd.org]
Sent: Wednesday, March 23, 2011 1:22 PM
To: Leeds, Eric
Subject: Your question about Japan evacuations

Eric –

I did some web searching. Canada, South Korea, UK and Australia stated an evacuation distance of 80 km/ 50 miles.

Many countries, such as France, urged their citizens in the north-east Japan and Tokyo to evacuate. In most reports, most countries do not state the reason is nuclear and they do not give a defined distance.

Attached are excerpts from reports with web sources.

Hope that helps,
Diane

PPP/430

From: Blount, Tom
To: Leeds, Eric; Boger, Bruce; McGinty, Tim
Cc: Nelson, Robert; Markley, Michael; Mensah, Tanya; Rosenberg, Stacey
Subject: FW: 2.206 Process Question/Followup: Related to Japanese EQ
Date: Wednesday, March 23, 2011 12:21:26 PM

Eric / Bruce,
Please note the advice from OGC. Looks like foreign citizen can utilize the 2.206 process in OGC's opinion.

We will proceed with this advice in mind. Another thought that was suggested was to consolidate the petitions since they spring from the same event. The process allows for that, and we will consider it, recognizing we will need Office Director level concurrence to "bundle" them.

Tom

From: Scott, Catherine
Sent: Wednesday, March 23, 2011 11:52 AM
To: Mensah, Tanya; Clark, Michael; Blount, Tom
Cc: Rosenberg, Stacey; Nelson, Robert; Sexton, Kimberly; Markley, Michael
Subject: RE: 2.206 Process Question/Followup: Related to Japanese EQ

Yes, I can inform them. Who should I contact?

From: Mensah, Tanya
Sent: Wednesday, March 23, 2011 11:47 AM
To: Clark, Michael; Scott, Catherine; Blount, Tom
Cc: Rosenberg, Stacey; Nelson, Robert; Sexton, Kimberly; Markley, Michael
Subject: RE: 2.206 Process Question/Followup: Related to Japanese EQ

Thanks Mike.

Tom: Please advise if you plan to inform the NRR ET. Thanks.

From: Clark, Michael
Sent: Wednesday, March 23, 2011 11:43 AM
To: Mensah, Tanya; Scott, Catherine; Blount, Tom
Cc: Rosenberg, Stacey; Nelson, Robert; Sexton, Kimberly
Subject: RE: 2.206 Process Question/Followup: Related to Japanese EQ

Tanya,

For now, I'd proceed on the assumption that foreign citizens can use the 2.206 process. Section 2.206 states that "Any person may file a request to institute a proceeding pursuant to § 2.202[,]" while section 2.4 defines "person" to include both "any individual" and "any foreign government or nation." Thus, under the plain language of the regulations in Part 2, it appears that an individual who is a resident or citizen of a foreign nation (and even a foreign government) can file a petition under 2.206.

PPP/431

Kimberly and I will let you know if there's any change in this position. However, in our research so far we have not found any barrier to considering 2.206 petitions from foreign citizens.

Please let us know if you have questions.

Mike Clark
Office of the General Counsel
United States Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, Maryland 20852-2738
Phone: (301) 415-2011
Facsimile: (301) 415-3725

From: Mensah, Tanya
Sent: Wednesday, March 23, 2011 8:27 AM
To: Scott, Catherine; Blount, Tom
Cc: Rosenberg, Stacey; Nelson, Robert; Clark, Michael
Subject: RE: 2.206 Process Question/Followup: Related to Japanese EQ

Hi Cathy,

Just checking to see if there has been any feedback from OGC yet. If you have already provided it to Tom, disregard my email. I will follow up with him separately.

Thanks for your time.

Tanya

From: Scott, Catherine
Sent: Tuesday, March 22, 2011 9:53 AM
To: Blount, Tom
Cc: Rosenberg, Stacey; Mensah, Tanya; Nelson, Robert; Clark, Michael
Subject: RE: 2.206 Process Question/Followup: Related to Japanese EQ

Hello Tom,

I did see the emails but just got back to the office from being away today. I'm assigning Mike Clark to follow these 2.206s on Japan EQ.

My question would be whether there is anything in the Management Directive that speaks to this? (Likely not, or you would already have your answer.) Denials of 2.206 petitions are reviewable in court, so it would seem to me that unless the policy already prohibits requests from people located outside of the US, there could be some legal risk posed by denying the request on that basis. I would like to raise this with the Legal Counsel division to see if they know whether any person outside the US would have standing to challenge us in court in any event.

I'll get back to you today.

Cathy

From: Blount, Tom
Sent: Tuesday, March 22, 2011 8:27 AM
To: Scott, Catherine
Cc: Rosenberg, Stacey; Mensah, Tanya; Nelson, Robert
Subject: 2.206 Process Question/Followup: Related to Japanese EQ

Hi Cathy –
I believe you have seen this issue, regarding citizens of other countries requesting NRC shutdown U.S. reactors, and treating those request under our 2.206 process. We (NRR) don't think that is the appropriate venue for such request, but rather we intend to respond to them as "general correspondence." Does OGC have a legal objection to such action?

Thanks in advance, looking forward to your advice on this matter....

Tom Blount
415-5710

From: Leeds, Eric
Sent: Tuesday, March 22, 2011 7:42 AM
To: Boger, Bruce
Cc: McGinty, Tim; Blount, Tom
Subject: RE: 2.206 Process Question/Followup: Related to Japanese EQ

I agree. Let's tell OGC what we're doing and let them stop us.

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Boger, Bruce
Sent: Monday, March 21, 2011 9:10 PM
To: Leeds, Eric
Cc: McGinty, Tim; Blount, Tom
Subject: Fw: 2.206 Process Question/Followup: Related to Japanese EQ

Giving non-US residents 2.206 "rights" is not reasonable at all. They should work through the Canadian system. A nice letter is plenty for me.

From: Blount, Tom
To: McGinty, Tim; Boger, Bruce
Sent: Mon Mar 21 08:40:28 2011
Subject: FW: 2.206 Process Question/Followup: Related to Japanese EQ

Can the 2.206 process get any more...."attention??"
Just fyi....as you can see it's being worked...

From: Mensah, Tanya
Sent: Monday, March 21, 2011 8:22 AM
To: Markley, Michael
Cc: Guzman, Richard; Tam, Peter; Lyon, Fred; Polickoski, James; Salgado, Nancy; Banic, Merrilee; Rosenberg, Stacey; Scott, Catherine; Blount, Tom; Quay, Theodore; Burnell, Scott
Subject: 2.206 Process Question/Followup: Related to Japanese EQ

Good morning all,

OPA apparently is receiving letters from individuals that reside outside of the US (UK, Canada, etc.). They are only forwarding the letters to me that request immediate actions to shut down reactors as 2.206 petitions - which I then request ticketing for via the EDO.

This past Friday, the question was raised by Scott Burnell, "does the NRC need to treat letters from individuals that reside in other countries under the 2.206 process?"

To my knowledge, a 2.206 can be submitted by any member of the public. It does not specify that the petitioners have to reside in the US (or be US citizens) in order for us to treat their concerns under the 2.206 process. I emailed our OGC contact for the 2.206 process (Cathy Scott) on Friday to ask her this question and am awaiting a response.

In the meantime, Rich was planning to contact his petitioner (who resides in Canada) early this week. I asked Rich this morning to please hold off with contacting the petitioner to discuss the 2.206 process. I want to avoid an awkward situation in the event that OGC verifies that we should not be treating these letters under 2.206 (for individuals that reside outside of the US).

Cathy is copied on this email and I am hoping she will be able to respond to all shortly.

Thanks for your time,

Tanya

From: Markley, Michael
Sent: Friday, March 18, 2011 4:53 PM
To: Mensah, Tanya
Cc: Guzman, Richard; Tam, Peter; Lyon, Fred; Polickoski, James; Salgado, Nancy
Subject: G20110174 ticket re: NMP

Tanya,

Rich Guzzman has the lead for this petition.

Mike

From: Droggitis, Spiros
Sent: Wednesday, March 23, 2011 10:11 AM
To: Schmidt, Rebecca; Riley (OCA), Timothy
Subject: FW: Status Updates for OCA
Attachments: USNRC Japan Plant Condition Updates March23 0700EDT.pdf

Here it is...

From: LIA07 Hoc
Sent: Wednesday, March 23, 2011 10:09 AM
To: LIA12 Hoc; Droggitis, Spiros
Subject: Status Updates for OCA

Please find attached a 0700 EDT (March 23, 2011) Japanese nuclear power plants status update from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami.

Please note that this information is "Official Use Only" and is only being shared within the federal family.

Please call the Headquarters Operations Officer at 301-816-5100 with questions.

Yen

Yen Chen
US Nuclear Regulatory Commission
LIA07.HOC@nrc.gov (Operations Center)

PPP/432

From: Virgilio, Martin
To: nucfed@aol.com; Miller, Charles; Holahan, Gary; Grobe, Jack; Sanfilippo, Nathan
Cc: Borchardt, Bill; Weber, Michael; Muessle, Mary; Andersen, James; Ash, Darren
Subject: Near Term Review
Date: Wednesday, March 23, 2011 3:04:43 AM

All

Let me start by thanking you for agreeing to participate on the Task Group that will be chartered to identify near term actions in response to the ongoing accident at Fukushima Diiachi reactors.

Yesterday, I spoke with Bill Borchardt and Charlie Miller about this assignment. Bill expects that you will be working on this project full time at least until the 30 day quick look report is developed and the Commission is briefed on its contents.

While the specifics of the actions are still being finalized through the SRM development, it is likely that we will be asked to consider whether NRC should take actions to improve NRC and licensee programs to enhance safety; and, identify specific topics/areas for longer term assessment.

I have suggested to Charlie that we have a kick off meeting on Thursday morning. This would be an opportunity to align on the charter of the group, expected products and methods for conducting the review and developing recommendations.

One item that I would like to see us address on Thursday is internal stakeholder involvement. We may want to have a session early next week with the folks who have been serving on the site team and in the ops center to gather their insights.

I have periodically pulsed Chuck Casto about areas that we should consider as part of our near term lessons learned. Chuck has suggested we look at B5b and in particular the location of the equipment, environmental conditions where actions will have be taken, and whether in there will be sufficient number of licensee staff needed to execute the recovery strategies. He also suggested we consider multiple simultaneous accidents at a single site, NPPs where fire coping strategies include an induced SBO, and that we look at our SBO requirements.

Marty

PPP/433

From:	Hoc, PMT12
To:	Leeds, Eric
Cc:	ET05 Hoc
Subject:	FW: RESPONSE - ISSUE AN UPDATE IN ON REPORTING RADIOACTIVITY MEASUREMENTS ATTRIBUTED TO FUKUSHIMA-DAIICHI
Date:	Wednesday, March 23, 2011 7:23:28 PM

PMT is currently reviewing information based on a draft of the old IN. We will forward to any recipient you identify tomorrow. Recommend that a press release be issued.

From: PMT01 Hoc
Sent: Wednesday, March 23, 2011 7:20 PM
To: Hoc, PMT12; PMT07 Hoc
Subject: FW: RESPONSE - ISSUE AN UPDATE IN ON REPORTING RADIOACTIVITY MEASUREMENTS ATTRIBUTED TO FUKUSHIMA-DAIICHI

fyi

From: Weber, Michael
Sent: Wednesday, March 23, 2011 7:11 PM
To: Leeds, Eric
Cc: Zimmerman, Roy; ET01 Hoc; ET05 Hoc; OST02 HOC; PMT01 Hoc; LIA06 Hoc; LIA08 Hoc
Subject: RESPONSE - ISSUE AN UPDATE IN ON REPORTING RADIOACTIVITY MEASUREMENTS ATTRIBUTED TO FUKUSHIMA-DAIICHI

Outstanding!

From: Leeds, Eric
Sent: Wednesday, March 23, 2011 6:15 PM
To: Weber, Michael
Cc: Grobe, Jack; Virgilio, Martin; McGinty, Tim; Boger, Bruce
Subject: FW: ACTION - ISSUE AN UPDATE IN ON REPORTING RADIOACTIVITY MEASUREMENTS ATTRIBUTED TO FUKUSHIMA-DAIICHI

Finally got to this email..... I will proceed as we discussed. As to the regulatory vehicle, I've discussed with Jack and we think we have a way to do it without upsetting our processes. NRR has for action.

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Virgilio, Martin
Sent: Wednesday, March 23, 2011 3:06 PM
To: Weber, Michael; Leeds, Eric
Cc: Grobe, Jack; Rosenberg, Stacey; Quay, Theodore; RST01 Hoc; PMT01 Hoc; ET07 Hoc; ET05 Hoc; OST02 HOC; Ordaz, Vonna; Moore, Scott; Wittick, Brian; FOIA Response.hoc Resource; LIA06 Hoc; LIA08 Hoc
Subject: Re: ACTION - ISSUE AN UPDATE IN ON REPORTING RADIOACTIVITY MEASUREMENTS ATTRIBUTED TO FUKUSHIMA-DAIICHI

PPP/434

Mike/Eric

I have communicated our interest to NEI. They have agreed to coordinate this with the industry and send the information to NRC and whoever else needs to see it. Eric please give Tony Pietrangelo a call.

Marty

From: Weber, Michael
To: Leeds, Eric
Cc: Grobe, Jack; Rosenberg, Stacey; Quay, Theodore; RST01 Hoc; PMT01 Hoc; ET07 Hoc; ET05 Hoc; OST02 HOC; Ordaz, Vonna; Moore, Scott; Virgilio, Martin; Wittick, Brian; FOIA Response.hoc Resource; LIA06 Hoc; LIA08 Hoc
Sent: Wed Mar 23 14:01:28 2011
Subject: ACTION - ISSUE AN UPDATE IN ON REPORTING RADIOACTIVITY MEASUREMENTS ATTRIBUTED TO FUKUSHIMA-DAIICHI

Good afternoon, Eric. One of the actions coming out of the current agency response to the emergency at Fukushima-Daiichi is the need to issue an Information Notice requesting (?) NPP licensees (and others?) to report anomalous measurements of radioactivity that may be attributed to the emergency at Fukushima. We sent out a similar IN in 1986 following the accident at Chernobyl (IN 86-32). In today's parlance, it might be a generic communication other than an IN, but that is a call that NRR should make.

Based on the latest reporting, we have been informed of detections of trace level detections of I-131 at Nine Mile, Ginna, Kewaunee (rainwater), Songs, and Diablo Canyon. Cs-137 has also been detected at trace levels at the California plants. We can expect similar measurements during the next several weeks/months. Our intent would be to compile these measurements at NRC and then share them with DOE/EPA for an integrated assessment across the US with monitoring stations operated by DOE and EPA.

Thanks

From: Nuclear Plant Journal
To: Leeds, Eric
Subject: NPJ E-News March 23, 2011 Fukushima Update
Date: Wednesday, March 23, 2011 3:13:43 PM

Having trouble viewing this email? Click here

Nuclear Plant Journal E-News

Japan Update
March 23, 2011

Dear ERIC J,
In this issue of NPJ E-News you'll find an update of the Fukushima Nuclear Plants in Japan. Information is current as of March 23, 2011, 13:00 CDT. All items are directly quoted, without any editing.

In this issue

TEPCO Update

JAIF Status Update

Status Document

TEPCO Update

From the TEPCO website:

- At 11:00 am on March 23rd, the injection of sea water to spent fuel pool was conducted, and finished approximately at 1:20 pm on the same day.
- At 4:20 pm on March 23rd, light gray smoke was observed belching from Unit 3 building. The situation was reported to the fire department at 4:25 pm on March 23rd. The parameters of the reactor, the reactor containment vessel of Unit 3, and monitored figures around the site's immediate surroundings remained stable without significant change. To be safe, workers in the main control room of Unit 3 and around Unit 3 evacuated to a safe location.
- From approximately 10:00 am on March 23rd, water discharge from the concrete pumping vehicle was conducted and ended at approximately 1:00 pm on the same day.

Click for more...

Status Updates of TEPCO Facilities (from the JAIF website)

- Tokyo Fire Department will spray water to Unit-3 in this afternoon through cooperation with Osaka Fire Department.
- The operation to inject water to the spent fuel pool of Unit-4 was started with special vehicle around 10:00. This vehicle has a long arm that enables to pour water to a target. (11:10,

PPP/435

March 23).

- TEPCO will conduct test operation for pumps, which are to inject water into the reactor at unit-3. External AC power to the main control room of Unit-3 became available at 13:43 of March 22. (10:55, March 23).

Click for more...

JAIF Status Update
A PDF document provides a simple summary of each of the units at Fukushima nuclear power plants. This is a multi-page document that also provides a chronology of events and a map that details the status of each of the Japanese nuclear units.

Quick Links...

- NPJ Website
- Cost-free Subscription (to NPJ)
- JAIF
- TEPCO
- U.S. NRC Actions on Japan

Contact Information
phone: 630-313-6739
email: NPJ@goinfo.com

Forward email to an associate.

This email was sent to ejl@nrc.gov by anu@goinfo.com
Update Profile/Email Address | Instant removal with SafeUnsubscribe™ | Privacy Policy.

Nuclear Plant Journal | 1400 Opus Place, Suite 904 | Downers Grove | IL | 60515

From: Hayden, Elizabeth
To: Anderson, Brian
Cc: Burnell, Scott; Sheehan, Neil; Screnci, Diane; Leeds, Eric; Beasley, Benjamin
Subject: FW: Need talking points on GSI-199
Date: Wednesday, March 23, 2011 1:51:51 PM

Brian,

Scott's plate is overflowing, so could you please take on this task (see below) that explains what the agency has done and is planning to do with respect to GSI-199 (including GL, planned inspections, analysis) with an approximate timeline? NRR contacts would be Pat Hiland and David Skein and in RES it would be Annie Kammerer. FYI—we put out a press release Sept. 8 about the seismic research. There was also a communication plan developed with a list of 27 plants (which may now be expanded). If you could pull a very rough set of bullets together by COB today or early tomorrow morning, that would help immensely.

Also, check the NRR Sharepoint site and Bob Nelson, NRR, about communications regarding the Temporary Instruction that Eric Leeds said will go out today—we need to find out more on what that is about.

Thanks,

Beth Hayden
Office of Public Affairs
U.S. Nuclear Regulatory Commission
--- Protecting People and the Environment
301-415-8202
elizabeth.hayden@nrc.gov

From: Hayden, Elizabeth
Sent: Wednesday, March 23, 2011 12:30 PM
To: Burnell, Scott
Cc: Screnci, Diane; Sheehan, Neil
Subject: Need talking points on GSI-199

Scott, Neil

I need you to draft some talking points on GSI-199 that summarizes briefly what has happened between the USGS data in 2008 to what we did with that information and what we are doing now and plan to do in the future (GL, analysis, inspections per what timeline?) We also need to clarify what the list of 27 plants means, whether it has expanded to include all plants, etc.

A specific question from Hannah Northey, Greenwire, is when did NRC start looking at plants with regard to the 2008 data from USGS? Please call her at 202-446-0468 to clarify specifics on GSI-199.

Beth Hayden
Senior Advisor

PRP/4366

Office of Public Affairs
U.S. Nuclear Regulatory Commission
--- Protecting People and the Environment
301-415-8202
elizabeth.hayden@nrc.gov

From: Maier, Bill
Sent: Wednesday, March 23, 2011 12:06 PM
To: OST05 Hoc; LIA04 Hoc; Easson, Stuart; Flannery, Cindy; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta
Subject: RE: HHS-organized calls - 2 call types...

Rich,

My thoughts are that HQs should do the speaking since the questions likely to be asked will best be answered by the NRC entity that is leading the NRC response.

Bill Maier

From: OST05 Hoc
Sent: Wednesday, March 23, 2011 11:03 AM
To: Maier, Bill; LIA04 Hoc; Easson, Stuart; Flannery, Cindy; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta
Subject: HHS-organized calls - 2 call types...
Importance: High

Note that HHS has organized 2 "recurring" call types, one with all 50 Governors/their staff, and one with just Western Governors and the Pacific Island Countries.

All 50 States and invited Federal Agencies:

Each Tuesday and Thursday evening – 5:00 pm EDT; NRC is often asked to lead off as to current status. The next call is tomorrow (Thursday) at 5:00. Mr. Natarajan of HHS has provided tomorrow's bridge line information which is located taped between LIA04 and OST05: 877-855-4797; Passcode: Japan Call. HQ State Liaison should determine who will speak to that call.

Western States and Pacific Island Countries and invited Federal Agencies:

Tonight – 8:00 EDT – HHS holds a call with Western States and Pacific Island Countries. Not certain how often. BILL: If we are asked to provide summary information, I believe RIV should do the speaking. Your thoughts?

Rich Turtil

NRC State Liaison – Liaison Team
Incident Response Center

ppp/437

From: Jaczko, Gregory
To: Leeds, Eric
Subject: RE: Your question about Japan evacuations
Date: Wednesday, March 23, 2011 5:53:43 PM

---

thanks

From: Leeds, Eric
Sent: Wednesday, March 23, 2011 5:53 PM
To: Jaczko, Gregory
Subject: Your question about Japan evacuations

Chairman –

As we discussed. See the attached for how other foreign governments handled the Fukushima evacuations. A number followed our lead.

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Diane.JACKSON@oecd.org [mailto:Diane.JACKSON@oecd.org]
Sent: Wednesday, March 23, 2011 1:22 PM
To: Leeds, Eric
Subject: Your question about Japan evacuations

Eric –

I did some web searching. Canada, South Korea, UK and Australia stated an evacuation distance of 80 km/ 50 miles.

Many countries, such as France, urged their citizens in the north-east Japan and Tokyo to evacuate. In most reports, most countries do not state the reason is nuclear and they do not give a defined distance.

Attached are excerpts from reports with web sources.

Hope that helps,
Diane

PPP/438

CANADIAN NUCLEAR SAFETY COMMISSION (CNSC): March 17, 2011 19:08 EDT: "Given the evolving situation, Canadians located within 80 km of the Fukushima Nuclear Power Plant should consider, as a further precautionary measure, evacuating this area. The directions of the Japanese government and local emergency response personnel should also be followed by all Canadians in Japan."

CANADA FOREIGN AFFAIRS AND INTERNATIONAL TRADE: 23 March, 2011 "Following damage to the Fukushima nuclear power station in Okumacho, Canadians are strongly advised to follow the advice issued by the Japanese authorities. An evacuation order is in effect for the zone within 20 km of the Fukushima Nuclear Power Plant. Japanese authorities recommend that people between 20 km and 30 km from the plant remain indoors with windows and doors closed and refrain from using ventilation systems. Given the evolving situation, Canadians located within 80 km of the plant are advised that they should, as a further precautionary measure, evacuate this area. The directions of the Japanese government and local emergency response personnel should also be followed by all Canadians in Japan. "

Kyodo News: March 18, Kyodo

http://english.kyodonews.jp/news/2011/03/79157.html

"S. Korea to mobilize military planes to evacuate nationals from Japan"

On Thursday, South Korea upgraded a safety advisory telling its citizens in Japan to stay at least 80 kilometers away from the crippled nuclear reactors in Fukushima Prefecture, more than doubling the previous evacuation distance of 30 km amid rising fears of exposure to radiation.

Australian Business Traveller: 18 March 2011

http://www.ausbt.com.au/australian-government-to-japan-travellers-leave-now-tokyo-unsafe

ARPANSA [the Australian Radiation Protection and Nuclear Safety Agency] recommended that Australians within 80 kilometres of the Fukushima Nuclear Power Plant move out of the area as a precautionary measure.

Travel Weekly: Mar 17, 2011 07:43

"Nuclear fears in Japan prompt FCO warning"

http://www.travelweekly.co.uk/Articles/2011/03/17/36516/nuclear-fears-in-japan-prompt-fco-warning.html

The Government is chartering aircraft to evacuate Britons from Japan to Hong Kong as concerns heighten over fallout from the stricken Fukushima nuclear plant.

The Foreign and Commonwealth Office updated its travel advice today, saying: "Due to the evolving situation at the Fukushima nuclear facility and potential disruptions to the supply of goods, transport, communications, power and other infrastructure, British nationals currently in Tokyo and to the north of Tokyo should consider leaving the area.

"The UK government is chartering flights from Tokyo to Hong Kong to supplement commercially available options for those wishing to leave Japan."

Britons were urged to remain outside an 80km radius of the nuclear plant "as an additional precautionary measure," saying the call was in line with the US government's advice to its citizens in Japan.

"If you are currently between 30km and 80km from the facility, we advise you to leave the area or take shelter indoors if you are unable to travel," the FCO said. Britons seeking to leave Japan were advised to use commercial flights as their first option or register interest in the charter option to Hong Kong.

BBC report: 18 march 2011

http://www.bbc.co.uk/news/world-asia-pacific-12775329

"Foreign evacuations"

- US - providing flights for people who wish to leave, advising 50-mile exclusion zone around Fukushima
- France - urging people to leave northern Japan and Tokyo, sending government planes to fly French out
- UK - advising nationals to leave north-east and Tokyo, chartering flights out
- China - bringing thousands to Niigata for evacuation
- Australia - people with non-essential roles to leave Japan

China says it has evacuated more than 6,000 of its nationals from quake-hit areas, mostly to Niigata on Japan's west coast, and is laying on six to eight additional flights to bring them home.

South Korea has said it will mobilise military ships and aircraft to evacuate its citizens if the situation worsens. At the moment it has told its nationals to stay 50 miles away from the plant.

Most other countries have also advised their nationals to evacuate from the north-eastern region of Japan or to leave the country altogether if they can.

Financial Times report Published: March 17 2011 17:14

"Foreign governments step up evacuations"

http://www.ft.com/cms/s/0/592cdc28-50b1-11e0-9227-00144feab49a.html#axzz1HRMbjqdg

In the clearest sign yet that foreign governments are losing confidence in the Japanese government's ability to contain radioactivity from the crippled reactors, embassies including Australia, China, South Korea and Thailand upgraded their warnings to nationals in Japan.

The US and UK governments on Thursday said they were arranging charter flights for their nationals to leave Japan. The UK and Australia also expanded the evacuation zone to 80km in line with advice from the US to its nationals.

World News Company report: March 17 2011

http://www.worldnewsco.com/4528/residents-radius-80-km-fukushima-nuclear-power-plant/

The government of United States called on their citizens within a radius of 80 kilometers from the **Fukushima nuclear power plant** to leave the area. U.S. warning shows the evacuation radius which is wider than the evacuation order issued by Japanese government.

The Japanese government had previously urged people living within a radius of 20 kilometers from the *Fukushima nuclear power plant* to flee to other places.

The Japanese government also urged people residing within a radius of 32 kilometers from the Fukushima nuclear power plant to not leave the house if they can not leave the area.

While the British Foreign Office said, English people should now consider to go from Tokyo and the northeast region of Japan.

"Concerning the situation in the Fukushima nuclear facilities, the last suggestion of The UK Government Chief Scientific Adviser (GCSA) is for those who are outside the exclusion zone established by the Japanese authorities, no real problems to worry about the **health** of human society. This advice is kept under review constantly," the statement of British Foreign Office.

"However, due to the situation that developed at the Fukushima nuclear facilities and potential disruptions to supply of goods, transportation, communications, electricity and other infrastructure, British citizens who currently resides in Tokyo and the north of Tokyo to consider leaving the area," thus, the official statement of British Foreign Office as reported by the Daily Telegraph on Thursday (March 17, 2011).

The Swiss government also urged its citizens to leave Tokyo and northeastern Japan. Previously, the Australian government had also urged its citizens residing in Tokyo, near Fukushima nuclear power plant and other areas affected by earthquake and tsunami to go to

evacuate. The call of evacuation of residents also issued by the governments of South Korea and France.

International Business Time: March 17, 2011 9:45 PM AEST

http://au.ibtimes.com/articles/123822/20110318/uk-japan.htm

As foreigners in Japan become increasingly desperate to flee the country, the British government has chartered planes to fly Britons in the country from Tokyo to Hong Kong.

"The UK government is chartering flights from Tokyo to Hong Kong to supplement commercially available options for those wishing to leave Japan," said a spokesman for the Foreign Office.

"Due to the evolving situation at the Fukushima nuclear facility and potential disruptions to the supply of goods, transport, communications, power and other infrastructure, British nationals in Tokyo and to the north of Tokyo should consider leaving the area," a UK government spokesman stated.

Britain follows other nations, including France, Turkey and China, which have already advised its nations to leave Japan

From:	Craver, Patti
To:	Titus, Brett; Cusumano, Victor; Scales, Kerby; Heida, Bruce; Valentine, Nicholee; Cartwright, William; Hughey, John
Cc:	Nguyen, Quynh; Meighan, Sean; Ruland, William; Lubinski, John; Hiland, Patrick; Cheok, Michael; Blount, Tom; Brown, Frederick; Giitter, Joseph; Leeds, Eric; Grobe, Jack; Boger, Bruce; Meighan, Sean; Nguyen, Quynh
Subject:	FOIA 2011-0119
Date:	Wednesday, March 23, 2011 10:09:42 AM
Attachments:	How to respond to a FOIA request.pdf
Importance:	High

Good Morning,

Please refer to the attached "how to respond to a FOIA request" that I sent with the originial tasking of the FOIA request. Note on page 4, that when searching your emails, the search must include your inbox, sent box and the trash box. It is not necessary to include the properties.

Any emails in your inbox from the OP center (HOO, HOC, HOC1 or HOC2) do not need to be captured. NSIR will provide them.

I received the question below from a staff member and wanted to share it hoping it will help with the collection of documents:

In general, who (i.e., the sender, any one person, everybody) should identify a communications with a broad distribution? Technically, everybody should identify the records. Hopefully, divisions/branches will come up with a system to capture them. (i.e. if the division director sent an e–mail to the entire division, only the TA should print those, or if an e-mail is sent from a branch chief to his staff, only the branch chief should print those or who ever is designated).

Please let me know if you have any additional questions and I appreciate your effort to complete this request in an expedited manner.
Thanks,
Patti Craver
FOIA Coordinator
Infrastructure Services Branch
Program Management, Policy Development
and Analysis Staff
Office of Nuclear Reactor Regulation
(301) 415-1513
patti.craver@nrc.gov

PPP/439

How To Respond To An Initial FOIA Request

What is the Freedom of Information Act (FOIA)?

The FOIA was passed by Congress in 1966. It permits any person, whether a citizen or not, to request records in possession and control of a Federal agency, and the agency must provide access to those records unless they are exempted from disclosure by one of the nine exemption categories in the Act. You should follow the steps listed below as you process a FOIA request. Each step is explained following the list.

_____ Step 1: Make sure you clearly understand what records the requester is seeking.

_____ Step 2: Determine if you are likely to have records subject to the request.

_____ Step 3: Provide an estimate of search and review time and an estimate of pages if required.

_____ Step 4: What to do if expedited processing is required.

_____ Step 5: Search for records responsive to the request.

_____ Step 6: Determine if records are to be released or withheld from the requester.

_____ Step 7: Bracket information that should be withheld.

_____ Step 8: Organize the records responsive to the request and submit them to you office FOIA coordinator.

_____ Step 9: Submit your response package to the FOIA/PA caseworker.

Step 1: <u>Make sure you clearly understand what records the requester is seeking.</u>

The FOIA/PA caseworker will make every effort to clarify the scope of the request before forwarding the request to the office FOIA coordinators. However, if you have questions about the request you should contact your office FOIA coordinator. If you believe you need additional clarification on the scope of the request, you should ask your office FOIA coordinator to request that the agency FOIA/PA caseworker responsible for overseeing processing of the request contact the requester for clarification or alternatively arrange a conference call with the requester at which time you may ask questions or offer suggestions to further define the scope of the request. Note that <u>no contact should be made with the requester unless approved by the agency FOIA/PA caseworker</u> so that all contacts with the requester meet the needs of all others who have a role in processing the request.

Step 2: <u>Determine if you are likely to have records subject to the request.</u>

Based on your knowledge of the subject matter of the request, you should determine if you will have records responsive to the request. You are only required to look for records where you believe it is reasonable to expect you will locate paper or electronic records covered by the subject matter of the request.

ML060590485

Only agency records that are in existence on the date NRC received the request are subject to a FOIA request. Agency records are records created or obtained by the agency and under the agency control at the time of request. This includes records created by the NRC staff, records submitted to the NRC by applicants, licensees, contractors, Federal and state agencies, international organizations and members of the public.

No records that are potentially responsive to the FOIA request may be destroyed after receipt of the FOIA request. However, there is no need to reconstruct a record that was destroyed prior to receipt of a request nor does NRC have to inform the requester that a record does not exist since it was destroyed prior to receipt of the request. As a matter of discretion, you may include records that can be released that were created after the date a request was received if you believe it would provide a clearer picture of agency actions regarding the subject of the request.

The agency is not obligated to create a record to respond to a request. Neither does the FOIA require an agency to answer questions that are asked in a request.

Some records may be determined to be **personal records** in that they may relate to the subject of the request but have not been circulated to anyone else in the agency, are not filed with any other agency records, and you were not required to create or retain them. These records still have to be identified and retained, but the agency does not have to invoke an exemption to withhold them. The agency does have to inform the requester that there are records that have been deemed to be personal records and the number of pages. Management Directive 3.1, Freedom of Information Act, contains a Personal Record Consideration Checklist that should be filled out by the owner of the personal records and submitted to the office FOIA coordinator. Contact your office FOIA coordinator for retention requirements.

Also, if you believe responsive records may be located in other offices, or with persons who may have been previously involved in the subject matter as staff in your organization or a member of a team or project, provide that information promptly to your office FOIA coordinator. The FOIA/PA caseworker will then contact the additional office(s) to begin searching for subject records.

Step 3: Provide an estimate of search and review time and pages if required

Within **four** (4) working days of your office's receipt of the request, your office may be required to provide to the FOIA/PA caseworker an estimate of the amount of time expected to be required to search for, and review records, and an estimate of the number of pages (or inches) you expect will be released to the requester. This includes pages that may be released in part. Whether your office will need to provide an estimate will depend upon whether or not the requester has been granted a fee waiver. The instructions on the FOIA E-Mail Assignment Form sent to your office FOIA coordinator will inform you if a fee waiver has been granted. If granted, fee estimates are not required. Proceed to Step 5. Otherwise if fees are required, your estimates must be given to your office FOIA coordinator within the time frame specified by your office.

Fee estimate for **search time** should include all time required to locate records responsive to the FOIA request. This includes time spent locating folders in file cabinets, looking for relevant records within file folders, and searching ADAMS and other databases, and consulting with others regarding the location of responsive records. **Review time** includes the actual time each person who will be involved in the review of the records will spend determining

if the records can be released in their entirety or in part and the process of bracketing any information that will be proposed to be withheld. Duplication estimate is based of the number of pages likely to be released to the requester and **does not** include the staff-hours used to copy the records.

Step 4: **What to do if expedited processing is required.**

Your office FOIA coordinator will inform you if a request has been granted expedited processing. If a request has been granted expedited processing, you should process the expedited FOIA request before processing any previous FOIA requests. Contact your office FOIA coordinator for more specific directions if needed.

Step 5: **Search for records responsive to the request**

a. Begin your search when instructed by the office FOIA coordinator.

Your office FOIA coordinator will tell you when to begin your search. If you had to provide a search, review or page estimate, you can expect that there may be a delay before you are instructed to begin your search. A search can begin only when a request is "perfected," which means when all fee related or other issues are resolved. If no estimates are required, your office FOIA coordinator will advise you to immediately begin your search for records.

b. Inform your office FOIA coordinator if you believe other offices or persons have responsive records.

If you believe responsive records may be located in other offices, or with persons who may have been previously involved in the subject matter as staff in your organization or a member of a team or project, provide that information promptly to your office FOIA coordinator. Notify your office FOIA coordinator when you are aware the Commissioners or the EDO, or a Deputy EDO has been involved in the subject matter and may have responsive records or the records may be the subject of an ongoing investigation. This information is valuable because it will ensure that the agency as a whole does an adequate search for responsive records. If you know others who are processing the same request or who should be, it may be useful to work closely with them, even if they are in other offices to both ensure an adequate search and to make the search more efficient.

c. Search all relevant files.

You must conduct, based on your knowledge of the subject matter, an adequate search of those paper and electronic files where you believe it is reasonable to expect to locate records covered by the subject matter of the request. You must include in your search the following:

(1) paper records under your personal control including working papers you have retained in your possession
(2) paper records maintained in your office
(3) paper records in the NRC File Center

(4) e-mails including property sheets in the Received, Sent, Archives, and Trash files. Note that since trash files are still within your control, e-mails responsive to a FOIA request in the trash folder must be identified, retrieved, printed out, and processed. You should also move the e-mail out of the trash folder to eliminate the possibility that an automatic deletion of e-mail will destroy the only copy.
(5) electronic records in ADAMS Main Library and Legacy Library including all versions.
(6) other electronic files, including but not limited to WordPerfect, Microsoft Word, spreadsheets, presentation files including those files stored on disks
(7) databases including those files stored on disks
(8) audio or video files or tapes.

d. Record computer search criteria

When a computer database such as ADAMS is searched to locate records responsive to a request, the search criteria used for conducting the search must be provided with the office response. The Department of Justice has advised agencies in order to justify that they have done an adequate search they must maintain computer search criteria. The search criteria must be provided even if no records are identified as a result of the computer search.

e. Download or print information from computer spreadsheets or databases.

If the requested information is in a database or spreadsheet and is retrievable by using an existing computer program or by minor program modifications or simple computer instructions, the subject information should be provided. If a program would have to be written, inform your office FOIA coordinator.

f. If a record is already publicly available you only have to identify the ADAMS accession number and a description of the record and page count. No copy is required to be made. Otherwise you will have to provide a copy of all responsive records.

Step 6: Determine if records are to be released or withheld from the requester.

After you have searched and located records, you should review the records to determine if any information in the records should be withheld under any of the FOIA exemptions. In particular you should be on alert for personal privacy information, allegation information, investigative related records, proprietary information, classified, or safeguards information. When you have questions you should refer to the applicable management directive or contact your office FOIA coordinator.

Sometimes while reviewing records you will find that they contain not only information that is subject to the request but also information that is outside the scope of the request. If an entire page of a record is outside of the scope of the request, you should mark the page at the top to indicate it is "Outside-of-Scope." This page will not be provided to the requester. If outside-of-scope information is on a page containing information that is subject to the request, the outside-of-scope information must be marked "Outside-of-Scope." The requester will be provided a redacted copy of the record that does not reveal the information that is outside-of-scope. It is not necessary to apply any FOIA exemptions to the outside-of-scope information.

Brief descriptions of the FOIA Exemptions are noted below. Descriptions are also found in NRC Management Directive 3.1, Freedom of Information Act, and 10 CFR 9.17. Your office FOIA coordinator can also provide additional information.

Exemption 1: Information properly classified pursuant to an Executive Order. This includes information classified as Confidential National Security Information (C/NSI); Secret National Security Information (S/NSI) or Top Secret National Security Information (TS/NSI). **PROVIDE A FORESEEABLE HARM STATEMENT ONLY IF NOT OBVIOUS**

Exemption 2: Information relating solely to internal personnel rules and procedures.

Low 2: This exemption has historically applied to internal information of a trivial nature, such as NRC parking lists or room numbers for NRC office buildings. Public release of such information would typically cause no harm, so the agency should generally authorize discretionary release of Exemption 2(low) records.

High 2: More substantial internal matters the disclosure of which would risk circumvention of a legal requirement where the information is predominantly internal and disclosure significantly risks circumvention of statutes or agency regulations. Some examples are: critical infrastructure systems and assets, and vulnerability assessments. Other information properly withheld under this exemption includes general guidelines for conducting investigations, computer programs and source codes, bridge passcodes, agency credit card numbers, and crediting plans for future vacancies. **A FORESEEABLE HARM STATEMENT MUST BE PROVIDED FOR EXEMPTION 2(HIGH)**

Exemption 3: Information specifically exempted from public disclosure by statute. This includes (1) safeguards information (*Section 147 of Atomic Energy Act (AEA)*); (2) Restricted Data (RD) including Restricted Data classified at the CONFIDENTIAL (C/RD), SECRET (S/RD), and TOP SECRET (TS/RD) levels (*Sections 141-145 of the AEA*), (3) voluntary submitted critical infrastructure information (6 U.S.C. 133(a)(1)(A). and (4) contractor proposals not incorporated into the contract (*41 U.S.C., Section 253b(m)(1)*. **PROVIDE A FORESEEABLE HARM STATEMENT ONLY IF NOT OBVIOUS**

Exemption 4: Trade Secrets or commercial or financial information. This includes (1) confidential business (proprietary) information; (2) licensee's physical protection or material control and accounting program information for special nuclear material (see 10 CFR2.390(d)(1)); and (3) information submitted by a foreign source and received in confidence pursuant to 2.390(d)(2).

For confidential business (proprietary) information submitted by a company, provide a copy of the company's affidavit providing a statement of the reasons supporting the company's request that the information should be protected from public disclosure and the NRC's determination letter sent to the company. If your office determines that the information continues to be proprietary, the FOIA/PA staff, with OGC concurrence, will inform the requester in the NRC's response to the request. If you believe the record or portions are no longer proprietary, indicate those portions in your response. The FOIA/PA Officer will send a letter to the submitting company when an initial determination is made that information the

company claims as proprietary should be disclosed. The letter gives the company the opportunity to object to disclosure and if the company has any objection it must provide the agency a statement specifying the grounds why the information continues to be proprietary. The FOIA staff in consultation with OGC and the originating office will review the statement and reach a final agency decision and inform the company and the requester of that decision. **PROVIDE A FORESEEABLE HARM STATEMENT ONLY IF NOT OBVIOUS**

Exemption 5: Interagency or intraagency records that are not available through discovery during litigation. This is normally referred to as predecisional information and includes information that would reveal (1) a deliberative process but only those portions which reveal advice, opinions, and recommendations, (2) attorney work-products and (3) records covered by the attorney-client privilege. This exemption=s goal is to encourage the open, frank, and candid exchange of opinions needed for good decision making, protect against premature disclosure of public policies, and protect against public confusion by disclosure of reasons and rationale that are not in fact actual reasons for agency decisions. Note that final agency decisions and interpretations can not be withheld under this exemption. **A FORESEEABLE HARM STATEMENT MUST BE PROVIDED FOR EXEMPTION 5, DELIBERATIVE PROCESS ONLY. ATTORNEY-CLIENT PRIVILEGE AND ATTORNEY-WORK PRODUCT DO NOT REQUIRE A FORESEEABLE HARM STATEMENT**

Exemption 6: Information if released would result in a clearly unwarranted invasion of personal privacy. For example, this includes social security numbers, home addresses, home or personal telephone, cell and pager numbers, personal non-government e-mail addresses, date of birth, marital status, number of children, and non-job related interests, personal medical, financial, performance and disciplinary information. For application packages, candidate evaluations, personnel forms SF 50 and SF 52, and appraisal-related records, guidance can be obtained from your office FOIA coordinator. **PROVIDE A FORESEEABLE HARM STATEMENT ONLY IF NOT OBVIOUS**

Exemption 7: Records compiled for law enforcement purposes. Sections A, C, and D are the most frequently used parts of this exemption.

7A: Disclosure could reasonably be expected to interfere with an enforcement proceeding. This exemption is used for records involved in an open allegation file, an ongoing investigation by the Office of Investigation (OI) or Office of the Inspector General (OIG), or in an ongoing enforcement action. **PROVIDE A FORESEEABLE HARM STATEMENT ONLY IF NOT OBVIOUS**

7B: Would deprive a person of a fair trial or an impartial adjudication. **PROVIDE A FORESEEABLE HARM STATEMENT ONLY IF NOT OBVIOUS**

7C: Disclosure could reasonably be expected to constitute an unwarranted invasion of personal privacy. (See examples under Exemption 6.) Note the threshold for invoking Exemption 7C is less than that for Exemption 6 because Exemption 6 requires that the invasion of personal privacy be clearly unwarranted. **PROVIDE A FORESEEABLE HARM STATEMENT ONLY IF NOT OBVIOUS**

7D: Information consists of names of individuals and other information the disclosure of which could reasonably be expected to reveal the identities of confidential sources. Confidential sources generally must have a written confidentiality agreement with the NRC. However that is not required by the OIG. **PROVIDE A FORESEEABLE HARM STATEMENT ONLY IF NOT OBVIOUS**

7E: Disclosure would reveal techniques and procedures for law enforcement investigations or prosecutions, or guidelines that could reasonably be expected to risk circumvention of the law. **PROVIDE A FORESEEABLE HARM STATEMENT ONLY IF NOT OBVIOUS**

7F: Disclosure could reasonably be expected to endanger the life or physical safety of an individual. **PROVIDE A FORESEEABLE HARM STATEMENT ONLY IF NOT OBVIOUS**

If you have questions regarding the application of exemptions you should consult with your own management or office FOIA coordinator

Step 7: Bracket information that should be withheld.

If the entire record is to be withheld write at the top of the first page: "Withhold All" and note the applicable FOIA exemption(s). If only a part of a record is to be withheld, whether it be part of a page, paragraph, or sentence, the information should be enclosed in brackets preferably using a red pencil and the applicable FOIA exemption noted in the margin next to the brackets. The FOIA requires that information that can be released be segregated from that which is withheld, thus it is important that you carefully consider what information can be released and what must be withheld. In particular, facts in predecisional records must be segregated from any advise, opinions or recommendations or other deliberative process information that is to be withheld. Also, make sure that information you are proposing to be withheld has not already been released to the public. Finally, remember you are only to bracket information to be withheld. The FOIA /PA Specialist is responsible for actually deleting withheld information in records prior to their release to the requester.

Step 8: Organize the records responsive to the request and submit them to your office FOIA coordinator.

Organize the responsive records into the following categories and list on separate pages as follows. Remember that all responsive records must be provided to the office FOIA coordinator regardless of whether they will be released or withheld in whole or in part. (Note the suggested format for compiling a list of records is as follows: Record Date, Originator, Originator Organization, Brief Subject and Page Count.)

(1) **Records Already Publicly Available** - if in ADAMS (main and legacy libraries) include the ADAMS Accession Number or include a printout if the records were identified via an ADAMS search along with the criteria used to perform the search.

(2) **Records Being Released in Their Entirety** - if the record is already in the ADAMS but not publicly available include the record's ADAMS Accession Number.

(3) **Records Containing Security-Related Information** - these records will be released only to the requester and not made publicly available in ADAMS until a third FOIA request is received for the same record. When a third request is received, the record will be made publicly available in ADAMS.

(4) **Records Being Released in Part** with the exemption(s) noted ***(a foreseeable harm statement must be provided for exemptions 2(high) and 5(Deliberative Process).***

(5) **Records Being Withheld in Their Entirety** with the exemption(s) noted ***(a foreseeable harm statement must be provided for exemptions 2(high) and 5(Deliberative Process).***

(6) **Records to be Referred to the Originating Office, Agency, or Company**.

(a) Identify any records submitted to the Commission or a Commissioner and provide a recommendation whether the record should be released or withheld because NRC policy requires Commission approval of the recommendation.

(b) Identify if any responsive record(s) involve(s) a subject for which litigation is either ongoing or is probable. This will ensure coordination with the Office of General Counsel, the NRC Solicitor, and when necessary the Department of Justice.

(c) Where an email contains the exchange between two or more offices, the submitting office is responsible for making a disclosure determination on the portions of the email originated by its staff and indicating the originating office(s) for the remaining portions.

(d) If a record contains proprietary information, remember to provide a copy of any affidavit provided by the submitted and any NRC decision letter. If the decision is still pending on submitted request for proprietary treatment of the record please note that in the response. Also since a letter will be sent to the submitted by the FOIA/PA Officer, please provide an address if it is not apparent on the record.

Step 9: **Submit your response package to the FOIA/PA caseworker.**

Within **ten** (10) working days, your office is required to submit records to the FOIA/PA caseworker handling the processing of the request. You should provide your office FOIA coordinator your response package within the time frame specified by your office. If you can not respond within your office's time frame, you should obtain your management approval and inform your office FOIA coordinator as soon as possible and explain why a delay will occur and when you expect to provide the complete response.

Your transmittal memo to the FOIA/PA caseworker must indicate whether the response does or does not contain security-related information. Your memo must also provide foreseeable harm statements for exemptions 2(high) and 5*(Deliberative Process)*. You only need to provide a foreseeable harm statement for exemptions 1, 3, 4, 6, 7A and 7C if the reason

is not obvious. While each document or portion of a document protected by exemptions 2(high) and 5*(Deliberative Process)* must be addressed in a foreseeable harm statement, a single statement may cover multiple documents or multiple portions of documents, provided that the harm foreseen, and the reasons why the harm is foreseen, are the same for each. While foreseeable harm statements do not need to be lengthy, they should be reasonably specific.

You should include in your response the actual search time and review time you spent on processing the request.

Do not put your office FOIA response in ADAMS. The FOIA/PA caseworker will place the FOIA request, NRC's response(s) to the requester (including the appendices and records) in ADAMS should the determination be made that the FOIA can be made publicly available.

From: Milligan, Patricia
To: Leeds, Eric
Subject: RE: Your question about Japan evacuations
Date: Wednesday, March 23, 2011 6:16:05 PM

Road trip!!

From: Leeds, Eric
Sent: Wednesday, March 23, 2011 6:08 PM
To: Milligan, Patricia
Subject: RE: Your question about Japan evacuations

Oh boy, the 50 mile call has created a firestorm. I was talking with Tony Pietrangelo from NEI and he's also struggling explaining it to everyone. What is so hard??????

Thanks for being there at the meeting with NYS. I understand we didn't use you as much as we should have. When I go on the road with this stuff, I'm going to need your help!

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Milligan, Patricia
Sent: Wednesday, March 23, 2011 5:56 PM
To: Leeds, Eric
Subject: RE: Your question about Japan evacuations

When you're good, you're good -;) you can't imagine how many of my friends from industry have been calling with a @@@@^#%@$ are you doing to us?? I imagine after yesterday's meeting Bill Dean will have his hands full at the end of cycle meetings espc Vermont... BWR Mark1, license extension, tritium ....

From: Leeds, Eric
Sent: Wednesday, March 23, 2011 5:54 PM
To: Weber, Michael
Cc: Milligan, Patricia
Subject: FW: Your question about Japan evacuations

I can't recall if I included you on this – interesting how other countries followed our PAR for Fukushima.

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Diane.JACKSON@oecd.org [mailto:Diane.JACKSON@oecd.org]
Sent: Wednesday, March 23, 2011 1:22 PM

PDR/440

To: Leeds, Eric
Subject: Your question about Japan evacuations

Eric –

I did some web searching. Canada, South Korea, UK and Australia stated an evacuation distance of 80 km/ 50 miles.

Many countries, such as France, urged their citizens in the north-east Japan and Tokyo to evacuate. In most reports, most countries do not state the reason is nuclear and they do not give a defined distance.

Attached are excerpts from reports with web sources.

Hope that helps,
Diane

From: Leeds, Eric
To: Weber, Michael
Subject: RE: RESPONSE - Your question about Japan evacuations
Date: Wednesday, March 23, 2011 6:08:00 PM

Getting punchy..... Great idea for the LT. I shared with the Chairman.

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Weber, Michael
Sent: Wednesday, March 23, 2011 5:57 PM
To: Leeds, Eric
Subject: RESPONSE - Your question about Japan evacuations

You did. Thanks for sharing. I plan to share this with the Liaison Team for information.

From: Leeds, Eric
Sent: Wednesday, March 23, 2011 5:54 PM
To: Weber, Michael
Cc: Milligan, Patricia
Subject: FW: Your question about Japan evacuations

I can't recall if I included you on this – interesting how other countries followed our PAR for Fukushima.

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

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Sent: Wednesday, March 23, 2011 1:22 PM
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Attached are excerpts from reports with web sources.

PPP/441

Hope that helps,
Diane

From:	Leeds, Eric
To:	Weber, Michael
Cc:	Milligan, Patricia
Subject:	FW: Your question about Japan evacuations
Date:	Wednesday, March 23, 2011 5:54:00 PM
Attachments:	Japan evacuation.doc

I can't recall if I included you on this – interesting how other countries followed our PAR for Fukushima.

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

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Hope that helps,
Diane

CANADIAN NUCLEAR SAFETY COMMISSION (CNSC): March 17, 2011 19:08 EDT: "Given the evolving situation, Canadians located within 80 km of the Fukushima Nuclear Power Plant should consider, as a further precautionary measure, evacuating this area. The directions of the Japanese government and local emergency response personnel should also be followed by all Canadians in Japan."

CANADA FOREIGN AFFAIRS AND INTERNATIONAL TRADE: 23 March, 2011
"Following damage to the Fukushima nuclear power station in Okumacho, Canadians are strongly advised to follow the advice issued by the Japanese authorities. An evacuation order is in effect for the zone within 20 km of the Fukushima Nuclear Power Plant. Japanese authorities recommend that people between 20 km and 30 km from the plant remain indoors with windows and doors closed and refrain from using ventilation systems. Given the evolving situation, Canadians located within 80 km of the plant are advised that they should, as a further precautionary measure, evacuate this area. The directions of the Japanese government and local emergency response personnel should also be followed by all Canadians in Japan. "

Kyodo News: March 18, Kyodo

http://english.kyodonews.jp/news/2011/03/79157.html

"S. Korea to mobilize military planes to evacuate nationals from Japan"

On Thursday, South Korea upgraded a safety advisory telling its citizens in Japan to stay at least 80 kilometers away from the crippled nuclear reactors in Fukushima Prefecture, more than doubling the previous evacuation distance of 30 km amid rising fears of exposure to radiation.

Australian Business Traveller: 18 March 2011

http://www.ausbt.com.au/australian-government-to-japan-travellers-leave-now-tokyo-unsafe

ARPANSA [the Australian Radiation Protection and Nuclear Safety Agency] recommended that Australians within 80 kilometres of the Fukushima Nuclear Power Plant move out of the area as a precautionary measure.

Travel Weekly: Mar 17, 2011 07:43

"Nuclear fears in Japan prompt FCO warning"

http://www.travelweekly.co.uk/Articles/2011/03/17/36516/nuclear-fears-in-japan-prompt-fco-warning.html

The Government is chartering aircraft to evacuate Britons from Japan to Hong Kong as concerns heighten over fallout from the stricken Fukushima nuclear plant.

The Foreign and Commonwealth Office updated its travel advice today, saying: "Due to the evolving situation at the Fukushima nuclear facility and potential disruptions to the supply of goods, transport, communications, power and other infrastructure, British nationals currently in Tokyo and to the north of Tokyo should consider leaving the area.

"The UK government is chartering flights from Tokyo to Hong Kong to supplement commercially available options for those wishing to leave Japan."

Britons were urged to remain outside an 80km radius of the nuclear plant "as an additional precautionary measure," saying the call was in line with the US government's advice to its citizens in Japan.

"If you are currently between 30km and 80km from the facility, we advise you to leave the area or take shelter indoors if you are unable to travel," the FCO said. Britons seeking to leave Japan were advised to use commercial flights as their first option or register interest in the charter option to Hong Kong.

BBC report: 18 march 2011

http://www.bbc.co.uk/news/world-asia-pacific-12775329

"Foreign evacuations"

- US - providing flights for people who wish to leave, advising 50-mile exclusion zone around Fukushima
- France - urging people to leave northern Japan and Tokyo, sending government planes to fly French out
- UK - advising nationals to leave north-east and Tokyo, chartering flights out
- China - bringing thousands to Niigata for evacuation
- Australia - people with non-essential roles to leave Japan

China says it has evacuated more than 6,000 of its nationals from quake-hit areas, mostly to Niigata on Japan's west coast, and is laying on six to eight additional flights to bring them home.

South Korea has said it will mobilise military ships and aircraft to evacuate its citizens if the situation worsens. At the moment it has told its nationals to stay 50 miles away from the plant.

Most other countries have also advised their nationals to evacuate from the north-eastern region of Japan or to leave the country altogether if they can.

Financial Times report Published: March 17 2011 17:14

"Foreign governments step up evacuations"

http://www.ft.com/cms/s/0/592cdc28-50b1-11e0-9227-00144feab49a.html#axzz1HRMbjqdg

In the clearest sign yet that foreign governments are losing confidence in the Japanese government's ability to contain radioactivity from the crippled reactors, embassies including Australia, China, South Korea and Thailand upgraded their warnings to nationals in Japan.

The US and UK governments on Thursday said they were arranging charter flights for their nationals to leave Japan. The UK and Australia also expanded the evacuation zone to 80km in line with advice from the US to its nationals.

World News Company report: March 17 2011

http://www.worldnewsco.com/4528/residents-radius-80-km-fukushima-nuclear-power-plant/

The government of United States called on their citizens within a radius of 80 kilometers from the **Fukushima nuclear power plant** to leave the area. U.S. warning shows the evacuation radius which is wider than the evacuation order issued by Japanese government.

The Japanese government had previously urged people living within a radius of 20 kilometers from the *Fukushima nuclear power plant* to flee to other places.

The Japanese government also urged people residing within a radius of 32 kilometers from the Fukushima nuclear power plant to not leave the house if they can not leave the area.

While the British Foreign Office said, English people should now consider to go from Tokyo and the northeast region of Japan.

"Concerning the situation in the Fukushima nuclear facilities, the last suggestion of The UK Government Chief Scientific Adviser (GCSA) is for those who are outside the exclusion zone established by the Japanese authorities, no real problems to worry about the **health** of human society. This advice is kept under review constantly," the statement of British Foreign Office.

"However, due to the situation that developed at the Fukushima nuclear facilities and potential disruptions to supply of goods, transportation, communications, electricity and other infrastructure, British citizens who currently resides in Tokyo and the north of Tokyo to consider leaving the area," thus, the official statement of British Foreign Office as reported by the Daily Telegraph on Thursday (March 17, 2011).

The Swiss government also urged its citizens to leave Tokyo and northeastern Japan. Previously, the Australian government had also urged its citizens residing in Tokyo, near Fukushima nuclear power plant and other areas affected by earthquake and tsunami to go to

evacuate. The call of evacuation of residents also issued by the governments of South Korea and France.

International Business Time: March 17, 2011 9:45 PM AEST

http://au.ibtimes.com/articles/123822/20110318/uk-japan.htm

As foreigners in Japan become increasingly desperate to flee the country, the British government has chartered planes to fly Britons in the country from Tokyo to Hong Kong.

"The UK government is chartering flights from Tokyo to Hong Kong to supplement commercially available options for those wishing to leave Japan," said a spokesman for the Foreign Office.

"Due to the evolving situation at the Fukushima nuclear facility and potential disruptions to the supply of goods, transport, communications, power and other infrastructure, British nationals in Tokyo and to the north of Tokyo should consider leaving the area," a UK government spokesman stated.

Britain follows other nations, including France, Turkey and China, which have already advised its nations to leave Japan

From: Holahan, Patricia
Sent: Wednesday, March 23, 2011 5:54 PM
To: ET05 Hoc
Subject: FW: Relaxing protective action criteria
Attachments: Relaxing protective action criteria EDITS 03-22-2011.doc

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From: Hoc, PMT12
Sent: Wednesday, March 23, 2011 5:53 PM
To: Holahan, Patricia
Subject: FW: Relaxing protective action criteria

Q&A for chairman on relaxing protective actions.

From: PMT03 Hoc
Sent: Wednesday, March 23, 2011 4:17 PM
To: Hoc, PMT12
Subject: Relaxing protective action criteria

Fyi...

From: Hoc, PMT12
Sent: Tuesday, March 22, 2011 2:33 PM
To: PMT03 Hoc
Subject: FW:

Please use this distribution list for your email to the chairman on iodine.

From: Hoc, PMT12
Sent: Tuesday, March 22, 2011 1:01 PM
To: Jaczko, Gregory
Cc: Virgilio, Martin; Weber, Michael; Johnson, Michael; Miller, Charles; Moore, Scott; Cool, Donald; Tappert, John; Borchardt, Bill; Wiggins, Jim; Carpenter, Cynthia; Ordaz, Vonna; Batkin, Joshua; Coggins, Angela; Lubinski, John; Zimmerman, Roy; FOIA Response.hoc Resource; PMT03 Hoc; Lewis, Robert
Subject:

Chairman,

Please see the requested information regarding the process for relaxing protective action recommendations.

PMT

PPP/442

Q: What are the criteria that the NRC would use to relax its previous protective action recommendation.

A: Brief response: Within the United States the decision to relax a protective action decision is based on confidence that any significant additional release is unlikely and on actual environmental measurements obtained and analyzed by the Federal Radiological Monitoring and Assessment Center (FRMAC) and that the plant is in a stable condition. These decisions are generally not made until the radioactivity release has been terminated and the source of the release is under control. The primary criteria for the decision to relocate a population from the affected area or allow re-entry to the affected area would be protective action guidance provided by the Environmental Protection Agency in its "Manual of Protective Action Guides and Protective Actions for Nuclear Incidents," EPA 400-R-92-001, May 1992. Generally, re-entry would not be allowed until the projected dose (based on actual measurements) due to ground deposition was less than 2 rem in the first year, or limiting doses as defined for the second through 50 years.

Explanation

For events which occur at nuclear facilities licensed by the Nuclear Regulatory Commission (NRC), the radiological annex to the National Response Framework, (NRF) defines the relationships between the Federal, state, and local emergency response organizations. In the early phase of the emergency, the operator of the facility (licensee) is expected, amongst other actions, to assess the conditions and recommend evacuation or sheltering protective actions to the affected state and local emergency response organizations. These protective actions recommendations may be based on plant status and prognosis, the results of radiological assessments and projections, or a combination of both. The NRC performs independent assessments of the conditions as a matter of regulatory oversight, and works with the licensee to resolve differences. The state and local

emergency response organizations consider the licensee's recommendation and decide upon the protective actions that will be implemented.

The early phase of the response ends when the radioactivity releases have been terminated, the plant is in a stable condition and the source of the radioactivity release is under control. The intermediate phase commences at this point.

Once the protective action decision (and any subsequent revisions) has been implemented, the decision to relax the protective actions and allow public re-entry to the affected areas is based on reassurance of no further release and on actual measurements and samples obtained in the affected area. The FRMAC, along with the affected states and local organizations, perform this assessment as the basis for decisions regarding relaxation of the protective actions to allow re-entry. The agencies that comprise the Interagency FRMAC, by statute, have the monitoring and assessment assets necessary to accomplish these tasks. Although the NRC will have representatives at the FRMAC, the NRC is not the lead federal agency for environmental monitoring under the radiological annex to the NRF, the lead is EPA.

In the United States, the EPA has established protective action guides for the intermediate phase that requires that the general population be relocated outside of the affected area if the projected effective dose equivalent from external gamma radiation from ground deposition and the committed effective dose equivalent from inhalation from re-suspended materials exceeds 2 rem in the first year. Re-entry would generally not occur as long as the projected dose in the first year exceeds 2 rem. It is important to note that are post plume assessments are based on the results of actual field measurements and sampling results. In the context of the Japanese event, these principals would still be generally applicable, although US field assessment capability should be augmented with available Japanese data.

CRITERIA

1. Radioactivity releases have been terminated and the source of the radioactivity release is under control.

2. Decision to allow public re-entry is based on field measurements and samples obtained from the affected area once the above criteria are satisfied.

3. Re-entry would not generally occur as long as the projected dose in the first years exceeds 2 rem, or exceeds 0.5 rem in the second year, or exceeds 5 rem in 50 years, depending on which case is most limiting.

M:\PMT\Relaxing protective action criteria.doc

From: Ralph, Melissa
Sent: Wednesday, March 23, 2011 3:21 PM
To: Marshall, Jane
Subject: FW: RESOURCE MAILBOX NEEDED FOR RESPONSE TO JAPAN EVENT

Importance: High

This is the only email I have on this FOIA thing. I didn't respond to it because I didn't know what was going on. I asked Andrea Wimbush to forward on what she has. There was also some traffic in the OST01 email box, but I don't have access to that.

-Melissa

From: Nichols, Russell
Sent: Tuesday, March 22, 2011 7:43 AM
To: Frazier, Alan
Cc: Andersen, James; Mullins, Charles; Sanchez, Nicola; Croston, Sean; Raphael, Mary Jean; Sealing, Donna; Crockett, Steven; Hirsch, Patricia; Holzle, Catherine; Stone, Rebecca; Ralph, Melissa; Fiske, Jonathan
Subject: RE: RESOURCE MAILBOX NEEDED FOR RESPONSE TO JAPAN EVENT
Importance: High

Alan,

Mary Jean is trying to find out the intent of this box because it is causing confusion for staff. We think NSIR set it up so that NSIR staff and staff who are augmenting the Ops Center or otherwise temporarily working in NSIR, but who normally work in other offices, can put their emails in it that they have received/sent based on their NSIR-support role. We're trying to confirm that but so far have not received a response to emails or phone calls.

We are not aware of any effort by NSIR to do an agency-wide collection of emails that are under the purview of other NRC offices. We recommend against that because the subject matter experts in each office should review the emails.

Our intent this morning is to go hunt down Rebecca Stone, Melissa Ralph, or Jonathan Fiske in person to get an answer because my OIS ET want to know what's going on. NSIR should not be doing an agency-wide effort without first coordinating with the OIS FOIA staff. If you find out, please let us know.

Russ Nichols, Branch Chief
Information Services Branch
Information and Records Services Division
Office of Information Services
(301) 415-6874

From: Holzle, Catherine
Sent: Monday, March 21, 2011 4:19 PM
To: Frazier, Alan
Cc: Andersen, James; Mullins, Charles; Sanchez, Nicola; Croston, Sean; Raphael, Mary Jean; Sealing, Donna; Nichols, Russell; Crockett, Steven; Hirsch, Patricia
Subject: RE: RESOURCE MAILBOX NEEDED FOR RESPONSE TO JAPAN EVENT

PRP/443

From: Stone, Rebecca
Sent: Tuesday, March 22, 2011 3:19 AM
To: Frazier, Alan
Subject: RE: RESOURCE MAILBOX NEEDED FOR RESPONSE TO JAPAN EVENT

I haven't heard anything yet but I am not really pursuing it. I am working every night shift so this isn't high on my list of priorities. I'll let you know if I hear anything.

From: Frazier, Alan
Sent: Monday, March 21, 2011 8:37 AM
To: Stone, Rebecca
Cc: Habighorst, Peter; Fiske, Jonathan
Subject: RE: RESOURCE MAILBOX NEEDED FOR RESPONSE TO JAPAN EVENT

Please let me know if you hear what the "users" listed below are supposed to be doing with this mailbox. I followed the process to get access.

From: Stone, Rebecca
Sent: Saturday, March 19, 2011 3:13 AM
To: Frazier, Alan
Subject: RE: RESOURCE MAILBOX NEEDED FOR RESPONSE TO JAPAN EVENT

I was briefed on this when I came in for my night shift. Apparently we received multiple FOIA requests for all correspondence regarding the Japan events yesterday afternoon. They have been expidited so a task force was put together and I guess both of our names came up. I don't have mouch more information. I will keep in touch...

Rebecca

From: Frazier, Alan
Sent: Friday, March 18, 2011 2:13 PM
To: Stone, Rebecca
Subject: Re: RESOURCE MAILBOX NEEDED FOR RESPONSE TO JAPAN EVENT

What is this?

From: ET02 Hoc
To: Turner, Joseph
Cc: Jackson, Karen; Khan, Omar; Stone, Rebecca; Fiske, Jonathan; Frazier, Alan; Habighorst, Peter; ET05 Hoc
Sent: Fri Mar 18 14:07:09 2011
Subject: RESOURCE MAILBOX NEEDED FOR RESPONSE TO JAPAN EVENT

We need a resource mailbox set up for the response to the Japan Events as follows:

Name: FOIA Response.hoc@nrc.gov

Owner: Rebecca Stone
Users: Jonathan Fiske
Peter Habighorst

Alan Frazier
ET05.hoc

Thanks. Please let me know when this has been completed...Karen Jackson 301-881-5100 x5804 or 301-538-7984

From: Nichols, Russell
Sent: Tuesday, March 22, 2011 7:43 AM
To: Frazier, Alan
Cc: Andersen, James; Mullins, Charles; Sanchez, Nicola; Croston, Sean; Raphael, Mary Jean; Sealing, Donna; Crockett, Steven; Hirsch, Patricia; Holzle, Catherine; Stone, Rebecca; Ralph, Melissa; Fiske, Jonathan
Subject: RE: RESOURCE MAILBOX NEEDED FOR RESPONSE TO JAPAN EVENT

Importance: High

Alan,

Mary Jean is trying to find out the intent of this box because it is causing confusion for staff. We think NSIR set it up so that NSIR staff and staff who are augmenting the Ops Center or otherwise temporarily working in NSIR, but who normally work in other offices, can put their emails in it that they have received/sent based on their NSIR-support role. We're trying to confirm that but so far have not received a response to emails or phone calls.

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Russ Nichols, Branch Chief
Information Services Branch
Information and Records Services Division
Office of Information Services
(301) 415-6874

From: Holzle, Catherine
Sent: Monday, March 21, 2011 4:19 PM
To: Frazier, Alan
Cc: Andersen, James; Mullins, Charles; Sanchez, Nicola; Croston, Sean; Raphael, Mary Jean; Sealing, Donna; Nichols, Russell; Crockett, Steven; Hirsch, Patricia
Subject: RE: RESOURCE MAILBOX NEEDED FOR RESPONSE TO JAPAN EVENT

I have not heard of any such thing being done in response to FOIA requests in the past or what the creator/s of the mailbox would expect to accomplish by it. Mary Jean Raphael, of the FOIA Office, is handling the three requests from an AP reporter on the Japan situation and may be consulted on pulling together responsive records for these requests.

From: Frazier, Alan
Sent: Monday, March 21, 2011 3:59 PM
To: Holzle, Catherine; Mullins, Charles; Sanchez, Nicola; Croston, Sean
Cc: Andersen, James
Subject: FW: RESOURCE MAILBOX NEEDED FOR RESPONSE TO JAPAN EVENT

Good Afternoon,

It is my understanding from this string of emails that last Friday staff in the Ops Center requested the creation of a mailbox to help with the collection of records to address multiple FOIA requests related to the NRC's Japan nuclear event response. I, and several others, we identified as "users" of the mailbox. I have access to the mailbox but have so far only looked a few of the 300+ emails.

Since you all are our FOIA experts, I wanted to 1) see if you were aware of this new mailbox, and 2) see if you know what the mailbox users are supposed to be doing with the mailbox, if anything.

Any insights you could provide would be greatly appreciated.

Regards,

Alan L. Frazier
Executive Technical Assistant
Office of the Executive Director for Operations
U.S. Nuclear Regulatory Commission
301-415-1763

From: Frazier, Alan
Sent: Monday, March 21, 2011 8:38 AM
To: Stone, Rebecca
Cc: Habighorst, Peter; Fiske, Jonathan
Subject: RE: RESOURCE MAILBOX NEEDED FOR RESPONSE TO JAPAN EVENT

Please let me know if you hear what the "users" listed below are supposed to be doing with this mailbox. I followed the process to get access.

From: Stone, Rebecca
Sent: Saturday, March 19, 2011 3:13 AM
To: Frazier, Alan
Subject: RE: RESOURCE MAILBOX NEEDED FOR RESPONSE TO JAPAN EVENT

I was briefed on this when I came in for my night shift. Apparently we received multiple FOIA requests for all correspondence regarding the Japan events yesterday afternoon. They have been expidited so a task force was put together and I guess both of our names came up. I don't have mouch more information. I will keep in touch...

Rebecca

From: Frazier, Alan
Sent: Friday, March 18, 2011 2:13 PM
To: Stone, Rebecca
Subject: Re: RESOURCE MAILBOX NEEDED FOR RESPONSE TO JAPAN EVENT

What is this?

From: ET02 Hoc
To: Turner, Joseph
Cc: Jackson, Karen; Khan, Omar; Stone, Rebecca; Fiske, Jonathan; Frazier, Alan; Habighorst, Peter; ET05 Hoc

Sent: Fri Mar 18 14:07:09 2011
Subject: RESOURCE MAILBOX NEEDED FOR RESPONSE TO JAPAN EVENT

We need a resource mailbox set up for the response to the Japan Events as follows:

Name: FOIA Response.hoc@nrc.gov

Owner: Rebecca Stone
Users: Jonathan Fiske
Peter Habighorst
Alan Frazier
ET05.hoc

Thanks. Please let me know when this has been completed...Karen Jackson 301-881-5100 x5804 or 301-538-7984

From: McGinty, Tim
Sent: Wednesday, March 23, 2011 11:15 PM
To: ET05 Hoc
Subject: Out of Office: ops center update

Tim is in the Ops Center on 3rd shift for the remainder of the week of March 21. I will return on March 28. Ted Quay or Tom Blount can be reached at 301-415-1282.

Thanks, Tim

PRP/444

From: ET05 Hoc
Sent: Wednesday, March 23, 2011 5:50 PM
To: Willis, Joseph
Subject: FW: WINS article on emerging lessons from Fukushima Daiichi event
Attachments: Fukushima Lessons learned.pdf

From: Wiggins, Jim
Sent: Wednesday, March 23, 2011 4:20 PM
To: ET05 Hoc
Subject: Fw: WINS article on emerging lessons from Fukushima Daiichi event

---

From: Diec, David
To: Wiggins, Jim; Layton, Michael; Correia, Richard; Holahan, Patricia; McDermott, Brian; Thaggard, Mark; Morris, Scott; Erlanger, Craig; Evans, Michele
Cc: Huyck, Doug; Jones, Cynthia; Fragoyannis, Nancy
Sent: Wed Mar 23 14:16:02 2011
Subject: WINS article on emerging lessons from Fukushima Daiichi event

FYI

David

please consider the environment before printing this email

PPD445

A WINS
SPECIAL PUBLICATION

Emerging lessons from the Fukushima Daiichi accident:

Maintaining Nuclear Security in a complex crisis

WORLD INSTITUTE FOR NUCLEAR SECURITY

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This WINS Special Publication has been produced in response to recent events in Japan and highlights the actions that should now be taken by the international security community.

WINS sends its condolences to those who have lost loved ones, relatives and friends. Thanks and best wishes to those who battle to render safe the nuclear reactors and restore power to cooling systems.

For the future – we should always do our best to learn from experience and use events such as those in Japan as an opportunity to learn lessons from this tragedy; for the security and off site responders to work more closely with nuclear scientists, engineers and safety specialists to understand and prepare for extreme events.

Dr. Roger Howsley
Executive Director – World Institute for Nuclear Security

It speaks volumes about perceptions surrounding the safety of nuclear power that the natural disasters that struck Northern Japan on 11th March, causing destruction and loss of life within the world's fourth biggest economy, have been overshadowed by the events at the Fukushima Daiichi nuclear reactors.

What are the implications for nuclear security, both in Japan and abroad, of the events unfolding at Fukushima?

Introduction

This WINS Special Bulletin provides expert analysis of the potential security risk issues emerging from the major accident that crippled the Fukushima Daiichi Nuclear Power Station and identifies key recommendations for Nuclear Security Managers when dealing with low probability and high impact risks. Our analysis is based on open source intelligence and media reporting, combined with our specialist knowledge of nuclear safety and security issues.

What happened?

On the 11 March 2011 a massive earthquake measuring 9.0 on the Richter Scale causes widespread structural damage across much of North East Japan. This seismic event caused a Tsunami that compounded the damage by the initial quake. The initial earthquake and subsequent Tsunami are then followed by more than 50 aftershocks.

At the time of the initial seismic event three of Fukushima's six reactors were operational. Following the earthquake Fukushima Daiichi Nuclear Power Station and other nuclear plants in the region automatically shut down. The Fukushima Daiichi Nuclear Power Station's diesel powered backup generators started up but failed shortly afterwards mostly likely due to water ingress and damage from the tsunami. Backup batteries were available but only had a life expectancy of about eight hours. The re-supply of diesel fuel for the generators has proved difficult because of the damage to local infrastructure. Consequently this sustained loss of power caused problems with the reactor and spent fuel pool cooling systems.

Crisis response plans were put in place against the backdrop of widespread destruction. The Japanese emergency services evacuated approximately 3,000 people and implemented a 6.2 mile exclusion zone around the plant, rising to 170,000 persons from the expanded 12 mile radius zone.

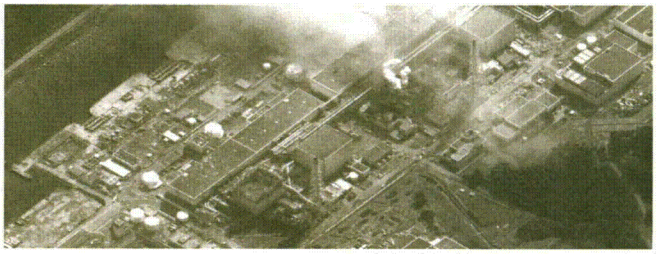
Foreign nationals were advised by their own Governments to leave the country and many international companies evacuated their staff unilaterally. One hundred thousand Japanese military personnel are involved in the rescue operation. The Japanese Central Bank has been forced to inject more than ¥15,000 billion into the money markets to bolster liquidity.

What was the impact on Nuclear Security?

Aerial imagery and media reporting reveals that the earthquake and tsunami damaged much of the physical security protection and defensive measures at the plant, as well as rendering communications ineffective. The mobile telephone networks were damaged further hampering operations.

The sudden and unexpected catastrophic consequences meant that many on-site security personnel and off-site emergency responders were caught up in the crisis and either incapable of responding or committed elsewhere on humanitarian rescue.

The ensuing reactor cooling crisis led to fires, explosions and the leakage of radiation causing a partial evacuation of the site. Media reporting and official statements suggested that only essential maintenance engineers remained on site due to human health fears over rising radiation readings at the plant.



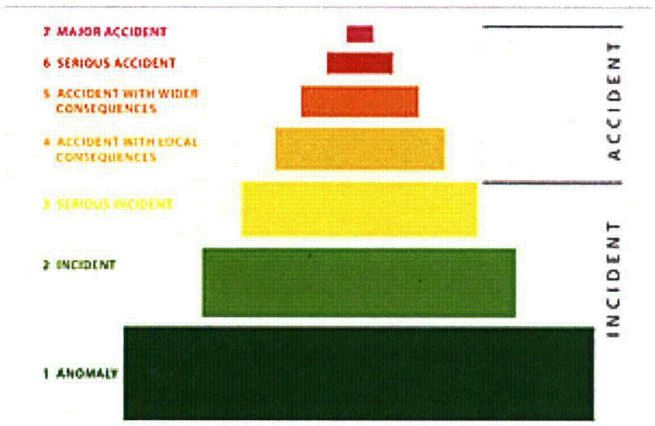
The sustained loss of electrical power not only at Fukushima Daiichi but also regionally will have reduced the effectiveness of automated security systems, including Closed Circuit Television Systems (CCTV), perimeter alarms and Intruder Detection Systems (IDS) and potentially compromised electronic access control and barrier systems.
Internationally, pressure groups descended on nuclear plants around the world and staged protests against the development of new nuclear power stations.

Interoperability of nuclear safety & security

The crisis at Fukushima Daiichi has been viewed almost exclusively as a nuclear safety event. There has been no mention of security issues relating to the events even though staffing at the plant has been reduced to essential operational staff only.

Whilst the priority is clearly safety-driven in order to avoid further catastrophe and risks to human health it is also important to consider the security risks and implications. The nuclear plant is operating at reduced staffing and security critical systems are potentially compromised by power loss and damage to infrastructure.

What are the exported risks to nuclear security?



Aside from the economic risks, the complex crisis raises a number of security issues. Whilst some of these issues are local, many will have had a far wider impact and all require consideration by the international nuclear security community.

In the short term the events in Japan will increase protestor activity – in all its guises. Public, political and regulatory pressure will also dictate that current risk mitigation measures at existing sites are reviewed and plans for future sites will come under increased scrutiny. In the medium term it is likely that finite resources will be directed away from security to reinforce safety which will continue to dominate the risk agenda.

The scenes of a major disaster involving nuclear facilities has been witnessed by a new generation of aspiring terrorists that can see the enormous human, economic and political impact of such an event. Nuclear and radioactive materials are now more likely to be targeted by terrorists than previously.

So What?

The Fukushima accident is currently assigned by Japan an INES rating of 5 for Units 1 – 3, and a rating of 3 for Unit 4. The wider impact implied goes beyond health issues; it is an indication to the global nuclear security community to analyse the implications for their own plants.

What Next?

Actions that should now be taken may include:

- ✓ **Revisiting Contingency Plans**
  Although testing incredible risks drives up costs and undermines the value of testing, there is now a need to redefine what should be considered a credible threat to safety and security. Are the assumptions underpinning your plans still valid? Have you appreciated the cascade effect? Consider the transfer of risk from global nuclear incidents early and revise the triggers and warnings used to initiate contingency plans.

- ✓ **Revising Risk Communication Management Plans**
  The distributed effect from Fukushima goes beyond health to more fundamental issues of public perception of risk. Disinformation can lead to costly increased protest activity, which can be mitigated by pre-emptive information campaigns.

- ✓ **Recognise the need for Situational Awareness**
  Developing situational awareness goes beyond command and control. True situational awareness requires *all* decision-makers and stakeholders to have access to the best information at the appropriate time. The Fukushima accident has shown the challenges inherent in managing information in a complex crisis.

- ✓ **Review Impact of Catastrophic Security System Failure**
  How might you maintain basic security and access control when electricity fails for an extended period of time and an element of the physical security system is compromised? What might you realistically expect from external security providers in the event of a complex crisis affecting your site?

- ✓ **Threat Review**
  The scenes of destruction, confusion and mass disruption caused by the nuclear accident at Fukushima may only serve to reinforce the intent of adversary groups who view disruption of nuclear material as a means to achieve their aims. It could be argued that the events in Japan have only served to heighten the risk to nuclear material elsewhere and to increase the threat in future post-incident scenarios

- ✓ **Reassess 'Secured by Design'**
  Any activity to review the underpinning assumptions about the security of your site might well require a more fundamental review of the design principles that may have been applied to achieve 'Security by Design'.

- ✓ **'Security Continuity'**
  Just like the broader issues of Business Continuity and associated standards, the nuclear security domain needs to review existing practices and challenge operational assumptions that differentiate it from mainstream security professionals. The additional risk factors demand that nuclear security continue to deliver 'security confidence' in the most demanding of circumstances, such as Fukushima Daiichi. The protection of security High Value Assets (HVA) and fall-back/fail-over security control rooms need to be factored into security planning design.

Key Actions for Nuclear Operators and Security Managers

You should consider:

- ☐ Review and update existing security risk assessments

- ☐ Review your security capability to operate in complex crises and low frequency but high impact incidents

- ☐ Review and update security and related contingency plans

- ☐ Test, exercise or war-game the unthinkable, but credible, threat combinations for the purposes of due diligence.

- ☐ Revise the media and information plans in anticipation of an increase in public concern and/or objections to your plant.

- ☐ Review the reliance on external enablers within your contingency plans (such as power, functional communications and the rule of law).

- ☐ Accountable government departments will need to confirm the requirement for armed, trained and protected law enforcement able to operate in a radiological environment.

- ☐ Re-examine the legal responsibilities and potential liabilities (including insurance cover) associated with nuclear terrorism

How WINS can help you:

We will work with you to:

- Share international best practice
- Independently debrief incidents and assess and analyze organizational learning
- Undertake an independent and trusted review of your security risk assessments
- Undertake an independent and trusted security capability audit(s)
- Conduct an independent and trusted review of existing security contingency plans
- Test, exercise and review existing contingency plans
- Design, build and deliver security management workshops
- Design, build and deliver "stress-testing" and war gaming for senior security executives and Board level members
- Develop and update existing security and related contingency plans

About the authors:

Roger Howsley is Executive Director of the World Institute for Nuclear Security. He is a former Chair of a Nuclear Police Authority and Director of Security for a multinational fuel cycle company, and lead the organisation's response to the events of 9/11.

Philip Hannah is a nuclear security consultant with extensive experience of crisis planning and managing risk in high pressure international environments. He has been involved in developing nuclear security strategy, exercising contingency plans and developing security capabilities for a number of clients.

Malcolm Baker advises on risk, crisis and consequence management in the protective security and Homeland security domains. He has extensive experience delivering security related strategy, policymaking and building operational capability, both nationally and internationally, in response to national security risks and threats. He is also a recognized expert in developing contingency plans and associated exercise regimes.

From: Noonan, Amanda
Sent: Wednesday, March 23, 2011 12:09 PM
To: OST05 Hoc
Subject: RE: HHS-organized calls - 2 call types...

Didn't Dave McIntyre ask to be informed about these calls? Hopefully he will lead off....

Amanda Noonan
Management Analyst, FSME/DILR
301-415-2551
amanda.noonan@nrc.gov

From: OST05 Hoc
Sent: Wednesday, March 23, 2011 12:03 PM
To: Maier, Bill; LIA04 Hoc; Easson, Stuart; Flannery, Cindy; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtil, Richard; Virgilio, Rosetta
Subject: HHS-organized calls - 2 call types...
Importance: High

Note that HHS has organized 2 "recurring" call types, one with all 50 Governors/their staff, and one with just Western Governors and the Pacific Island Countries.

All 50 States and invited Federal Agencies:

Each Tuesday and Thursday evening – 5:00 pm EDT; NRC is often asked to lead off as to current status. The next call is tomorrow (Thursday) at 5:00. Mr. Natarajan of HHS has provided tomorrow's bridge line information which is located taped between LIA04 and OST05: 877-855-4797; Passcode: Japan Call. HQ State Liaison should determine who will speak to that call.

Western States and Pacific Island Countries and invited Federal Agencies:

Tonight – 8:00 EDT – HHS holds a call with Western States and Pacific Island Countries. Not certain how often. BILL: If we are asked to provide summary information, I believe RIV should do the speaking. Your thoughts?

Rich Turtil

NRC State Liaison – Liaison Team
Incident Response Center

PPP/446

From: Wiggins, Jim
Sent: Wednesday, March 23, 2011 4:24 PM
To: ET05 Hoc
Subject: Fw: FEMA at NEMA

----- Original Message -----
From: Miller, Chris
To: McDermott, Brian; Wiggins, Jim
Sent: Wed Mar 23 13:48:29 2011
Subject: Re: FEMA at NEMA

Casual conversation, no commitments. But Bill is in a position to provide this help, and has oversight over Federal Coordinating Officers who are the point people at FEMA to manage domestic disasters.

----- Original Message -----
From: Miller, Chris
To: McDermott, Brian; Wiggins, Jim
Sent: Wed Mar 23 13:27:29 2011
Subject: FEMA at NEMA

Bumped into Bill Carwile (Assoc Admin for Response and Recovery) and Eric Smith (senior Logistics SES) of FEMA. They offered full support to any planning or logistics needs we had for the Japanese event.
chris

PPP/47

From: LIA05 Hoc
Sent: Thursday, March 24, 2011 12:50 PM
To: Dan Feighert; Andrew Seward; Harry Sherwood; John Simpson; Michelle Ralston; Steve Horwitz; Tim Greten; Vanessa E. Quinn
Subject: NRC NR 11-056
Attachments: 2011.3.24 NRC NR 11-056.pdf

Per request.

Bonnie Sheffield Dayshift 0700-1500
Ken Wierman Nightshift 1500-2300
FEMA REP Liaison
NRC Operations Center
(301) 816-5187

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PPP/448

NRC NEWS

U.S. NUCLEAR REGULATORY COMMISSION
Office of Public Affairs Telephone: 301/415-8200
Washington, D.C. 20555-0001
E-mail: opa.resource@nrc.gov Site: www.nrc.gov
Blog: http://public-blog.nrc-gateway.gov

No. 11-056 March 24, 2011

NRC SEEKS COMMENT ON PROPOSED RULE TO CERTIFY GE-HITACHI ESBWR REACTOR DESIGN

The U.S. Nuclear Regulatory Commission is seeking comments on a proposed rule that would certify GE-Hitachi Nuclear Energy's Economic Simplified Boiling-Water Reactor (ESBWR) design for use in the United States.

The design certification process provides for early public participation and resolution of safety issues for proposed reactor designs. NRC certification, in the form of a final rule, means the design meets the agency's applicable safety requirements. If an applicant for a nuclear power plant license references a certified design, the applicant need not submit safety information for the design. Instead, the license application and the NRC's safety review would address the remaining safety issues for the proposed nuclear power plant.

The design to be certified is fully described in a "design control document," which would be approved (incorporated by reference) in the design certification rule. The NRC has also prepared an environmental assessment of the design to support the rulemaking. The environmental assessment discusses possible design alternatives that could be included in the design certification to mitigate potential severe accidents. The NRC invites public comments on the design control document and environmental assessment as part of this rulemaking. These documents are available through the Federal e-Rulemaking web site at http://www.regulations.gov by searching under Docket ID **NRC-2010-0135**.

GE-Hitachi Nuclear Energy submitted an application for certification of the ESBWR standard plant design on Aug. 24, 2005. The ESBWR is a 1,594 megawatt electric, natural circulation reactor. The ESBWR includes passive safety features that would cool down the reactor after an accident without the need for human intervention. These passive features include:

- enhanced natural circulation via a taller reactor vessel, a shorter core and improved water flow through the vessel;
- an isolation condenser system to control water levels and remove decay heat while the reactor is pressurized, and;
- a gravity-driven cooling system to maintain water levels when the reactor pressure has dropped.

The NRC conducted an extensive technical evaluation of the design and issued a final safety evaluation report (FSER) in March 2011. The FSER provides the basis for the design certification now being considered for addition to NRC's regulations at 10 CFR Part 52. The FSER is available through http://www.regulations.gov by searching under Docket ID **NRC-2010-0135**.

The NRC is currently reviewing a Combined License application, referencing the ESBWR design certification application, from the Detroit Edison Company for Fermi Unit 3. The NRC has certified four other standard reactor designs: the Advanced Boiling Water Reactor (ABWR), System 80+, AP600, and AP1000, and the agency has published proposed rules to amend the ABWR and the AP1000.

The public can view the NRC's Federal Register notice at http://edocket.access.gpo.gov/2011/pdf/2011-6839.pdf. Comments may be submitted for 75 days following publication. Comments may be submitted via http://www.regulations.gov under Docket ID **NRC-2010-0135**; by e-mail to Rulemaking.Comments@nrc.gov; by mail to Secretary, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555-0001, ATTN: Rulemakings and Adjudications Staff; or by fax to Secretary, U.S. Nuclear Regulatory Commission, at 301-492-3466.

More information about the ESBWR design review can be found on the NRC's website at http://www.nrc.gov/reactors/new-reactors/design-cert/esbwr.html.

###

News releases are available through a free *listserv* subscription at the following Web address: http://www.nrc.gov/public-involve/listserver.html. The NRC homepage at www.nrc.gov also offers a SUBSCRIBE link. E-mail notifications are sent to subscribers when news releases are posted to NRC's website.

From: JapanEmbassy, TaskForce <JapanEmbassyTaskForce@state.gov>
Sent: Thursday, March 24, 2011 5:15 AM
To: PMT01 Hoc
Cc: LIA03 Hoc; LIA02 Hoc
Subject: RE: Request to Japan Meteorological Agency Thru the Japan Embassy Task Force

Andy,

Thank you for the clarification. We will follow up with JMA and get back to you as quickly as possible.

Naomi Walcott
Emergency Action Officer
Japan Emergency Command Center
U.S. Embassy Tokyo

SBU
This email is UNCLASSIFIED.

From: PMT01 Hoc [mailto:PMT01.Hoc@nrc.gov]
Sent: Thursday, March 24, 2011 4:57 PM
To: JapanEmbassy, TaskForce; LIA02 Hoc
Cc: LIA03 Hoc
Subject: RE: Request to Japan Meteorological Agency Thru the Japan Embassy Task Force

Website NRC is looking at is www.jma.go.jp/en (Japan Meteorological Agency)
The pathway on the website that is of our interest to the request below is Home > Weather and Earthquakes > Latest Weather (Weather Observation Table) > Table of Hourly Weather Observations (Today/Yesterday) > and then the site of interest, for example Fukushima > Soma or Miyagi > Sendai
Here are the final destinations
e.g. Sendai http://www.jma.go.jp/en/amedas_h/today-34392.html?groupCode=23&areaCode=000
e.g. Soma http://www.jma.go.jp/en/amedas_h/today-36151.html?groupCode=25&areaCode=000

this website (and others for the other sites listed below) is useful so that we can see what the observed conditions are and can compare to our forecasts. The current day's observations are listed, and there is a link to yesterday's observations
e.g. Sendai yesterday http://www.jma.go.jp/en/amedas_h/yesterday-34392.html?areaCode=000&groupCode=23
e.g. Soma yesterday http://www.jma.go.jp/en/amedas_h/yesterday-36151.html?areaCode=000&groupCode=25

Measurements Desired-Most Useful
Time
Precipitation
Wind Speed (m/s)
Wind Direction

The other measurements (temperature, sunshine duration) displayed on the website are useful, but not essential.
If the below request is too much information to ask, let us know and we will make a list of prioritized sites.

PPP 1449

Thank you,
Andy Imboden, PMT01 (Meteorologist)

From: JapanEmbassy, TaskForce [mailto:JapanEmbassyTaskForce@state.gov]
Sent: Thursday, March 24, 2011 3:17 AM
To: LIA02 Hoc; PMT01 Hoc
Cc: LIA03 Hoc
Subject: RE: Request to Japan Meteorological Agency Thru the Japan Embassy Task Force

Dear Mike (and NRC International Liaison Desk),

We are working on this matter but would like to clarify a couple points. Could you provide the website where you have found the data you've been looking at? Also, exactly what kind of measurements are you seeking? (This latter question may be answered if we know what JMA website you've been using.)

Thanks very much,

Naomi Walcott
Emergency Action Officer
Japan Emergency Command Center
U.S. Embassy Tokyo

This email is UNCLASSIFIED.

From: LIA02 Hoc [mailto:LIA02.Hoc@nrc.gov]
Sent: Thursday, March 24, 2011 2:50 AM
To: JapanEmbassy, TaskForce
Cc: PMT01 Hoc; LIA03 Hoc
Subject: FW: Request to Japan Meteorological Agency Thru the Japan Embassy Task Force

Good morning,

Please see below request from the NRC Operations Center's Protective Measures Team. If you could kindly assist us with this we would greatly appreciate it.

Kind regards,
NRC International Liaison Desk

From: PMT01 Hoc
Sent: Wednesday, March 23, 2011 1:45 PM
To: LIA01 Hoc; LIA02 Hoc
Cc: Harvey, Brad; Quinlan, Kevin; Brown, David; Galletta, Thomas; Imboden, Andy; Brandon, Lou; Hoc, PMT12
Subject: Request to Japan Meteorological Agency Thru the Japan Embassy Task Force

Folks:

This is to request your assistance thru the Japan Embassy Task Force to obtain available hourly meteorological measurement data from the Japan Meteorological Agency (JMA) for specific monitoring stations near the Fukushima Nuclear Power Plant. The Task Force has been very helpful in expediting previous requests from PMT-Meteorology and focusing the requests on to the appropriate agencies or organizations. The text below can be excerpted for this current request.

Thanks,

Mike Mazaika.
PMT – Meteorology

Over the course of responding to the incidents at the Fukushima Nuclear Power Plant which began March 11, 2011, we have been trying to build a data base of representative meteorological data for the site and surrounding area. We have identified a number of monitoring stations operated by the Japan Meteorological Agency (JMA) located at or near the coast to the north and south of the facility.

Hourly measurements that are readily retrievable from the JMA website appear only to be available for the current and preceding day and must be queried on a regular basis. We do not have a complete set of hourly measurements for the identified stations and would like to obtain data for the parameters measured at these stations and for the dates indicate below. We realize that because of the devastating effects of the tsunami, several stations went out of service. In those cases, we would appreciate confirmation of the operating status thru the indicated time periods and in the case of all stations the provision of any available data during these time periods.

Prefecture	Station	Dates Needed	Current Operating Status
Fukushima	Soma	March 11 – 17	Operating
Fukushima	Haramachi	March 11 – 17	Operating
Fukushima	Namie	March 11 – 18	Not in Service
Fukushima	Tomioka	March 11 – 18	Not in Service
Fukushima	Hirono	March 11 – 18	Not in Service
Fukushima	Taira	March 11 – 18	Operating
Fukushima	Onahama	March 11 – 13, 15 – 18	Operating
Fukushima	Tamakawa (Fukushima Arpt)	March 11 – 13, 15 – 18, 21	Operating
Miyagi	Watari	March 11 – 17	Operating
Miyagi	Natori	March 11 – 18	Not in Service
Miyagi	Sendai (Observatory)	March 11 – 13, 17	Operating
Miyagi	Shiogama	March 11 – 17	Operating
Miyagi	Marumori	March 11 – 21	Operating

We are grateful for your assistance.

Thank you,

Mike Mazaika.
NRC
PMT – Meteorology

From: Emche, Danielle
Sent: Thursday, March 24, 2011 4:59 PM
To: LIA03 Hoc
Subject: RE: RI Request on TP re: coordination with Japanese Govt on PAR

Oh, yes! Thank you! We had a conversation and they want us to share the assujmptions verbally, like we did with France, UK and Canada. The assistant secretary, DOS has also asked NRC to share this. Can you ask the PMT lead about a teleconference tomorrow to do a verbal? I could also listen in from home. We do have an arrangement for technical exchange now in place with Taiwan, so from OIP's standpoint, we're covered.
Danielle

From: LIA03 Hoc
Sent: Thursday, March 24, 2011 4:54 PM
To: Emche, Danielle
Subject: RE: RI Request on TP re: coordination with Japanese Govt on PAR

Thanks Danielle. I'll start working on it then.

Any updates on your AIT/TECRO meeting today to put in the transition log/report?

We still have your BB and laptop over here ☺

Thanks!
-Jenny

From: Emche, Danielle
Sent: Thursday, March 24, 2011 4:53 PM
To: LIA03 Hoc
Cc: LIA02 Hoc; Abrams, Charlotte
Subject: RE: RI Request on TP re: coordination with Japanese Govt on PAR

Jenny,
I am not aware that anyone else is working on this and your ideas would be helpful. Maybe the PMT and ET should perhaps weight in too, before Jack sees it and then I would print it and show it to Margie. My thoughts are to include some discussion about complicating factors that led to our decision:
-the scale of the tragedy and impact it had upon the Government of Japan and infrastructure,
-the fact that it was not an NRC licensee, so we had limited information
-certain plume models; therefore,
the U.S. needed to make a conservative decision.
I'm sure you also have some excellent ideas.
Danielle

From: LIA03 Hoc
Sent: Thursday, March 24, 2011 4:42 PM
To: Abrams, Charlotte
Cc: LIA02 Hoc; Ramsey, Jack; Emche, Danielle
Subject: RE: RI Request on TP re: coordination with Japanese Govt on PAR

Charlotte,

PPP/45D

Is this something that you'd like Janice and I to work on during our shift or are you guys taking care of it back in the office? It should be sent back to LIA04 when complete. It's not a problem for me to do it over here and send to you guys for consideration. I just don't want to duplicate efforts.

Thanks!
-Jenny

From: LIA02 Hoc
Sent: Thursday, March 24, 2011 4:36 PM
To: LIA03 Hoc
Subject: FW: RI Request on TP re: coordination with Japanese Govt on PAR

From: LIA04 Hoc
Sent: Thursday, March 24, 2011 4:31 PM
To: LIA01 Hoc; LIA02 Hoc
Subject: RE: RI Request on TP re: coordination with Japanese Govt on PAR

From: LIA02 Hoc
Sent: Wednesday, March 23, 2011 4:46 PM
To: Doane, Margaret; Ramsey, Jack
Cc: Abrams, Charlotte; Emche, Danielle; LIA04 Hoc
Subject: FW: RI Request on TP re: coordination with Japanese Govt on PAR

Hi Margie – OPA has deferred this issue to OIP. Specifically, it seems the States are concerned with how the NRC came to their 50 mile decision. The perception among the states is that the NRC made this decision in a vacuum. They want us to provide them with a talking point on whether the U.S. coordinated with Japan before we issued the 50 mile directive.

Thanks for your help.

From: LIA04 Hoc
Sent: Wednesday, March 23, 2011 4:30 PM
To: LIA02 Hoc; LIA03 Hoc
Cc: OST05 Hoc
Subject: RI Request on TP re: coordination with Japanese Govt on PAR

Please see Nancy McNamara's email below. OPA called back and said NRC coordinated with the Department of the State but that OIP should have awareness of the question and would be the better contact to craft/provide a talking point on this issue. RI is looking for a TP they can provide to the States.

Thanks, Alison
State Liaison
NRC HQ Operations Center
301-816-5193

From: LIA04 Hoc
Sent: Wednesday, March 23, 2011 3:41 PM
To: Harrington, Holly; McIntyre, David

Cc: OST05 Hoc
Subject: RI Request on TP re: coordination with Japanese Govt on PAR

Dave/Holly, please see highlight before. It is regarding the concern over the PAR recommendation from the angle of whether or not the U.S. government coordinated with Japan before issuance. Are the RSLOs able to convey any information to that effect. All the TPs and blog entries I have seen on this topic are regarding the 50 miles vs. 10 miles.

Thanks,

Alison Rivera
State Liaison
NRC HQ Operations Center
301-816-5193

From: McNamara, Nancy
Sent: Wednesday, March 23, 2011 2:30 PM
To: LIA04 Hoc; OST05 Hoc
Cc: Tifft, Doug; Maier, Bill; Logaras, Harral; Trojanowski, Robert; Barker, Allan; Turtil, Richard
Subject: Request for Consideration

Our states are still struggling with answering questions concerning the NRC making a PAR. One of the many concerns by the States is that during an event in the US, the NRC would publically issue a PAR disagreeing with the State's Protective Action Decision without discussing our disagreement with the State first. We all know that in theory, the expectation during a real event is that when the NRC is informed of the State's PAD and should we disagree with that PAD we would discuss it with the Governor or lead decision maker prior to going to the public.

However, the perception on the recent issuance of the PAR is that the NRC worked in a vacuum and did not coordinate our decision and public issuance with the Japanese Govt. I don't believe this was the case. I understand we had discussions with the Japanese Gov't and there was a mutual understanding between the US and Japan of our intentions.

We believe it would helpful to our States if we can tell them that the process worked the same as would be expected to occur during a US event. Can we do that? If so, what would be the talking point?

From: Emche, Danielle
Sent: Thursday, March 24, 2011 5:00 PM
To: LIA03 Hoc
Subject: RE: RI Request on TP re: coordination with Japanese Govt on PAR

I'm sending my better half over to pick them up asap.

From: LIA03 Hoc
Sent: Thursday, March 24, 2011 4:54 PM
To: Emche, Danielle
Subject: RE: RI Request on TP re: coordination with Japanese Govt on PAR

Thanks Danielle. I'll start working on it then.

Any updates on your AIT/TECRO meeting today to put in the transition log/report?

We still have your BB and laptop over here ☺

Thanks!
-Jenny

From: Emche, Danielle
Sent: Thursday, March 24, 2011 4:53 PM
To: LIA03 Hoc
Cc: LIA02 Hoc; Abrams, Charlotte
Subject: RE: RI Request on TP re: coordination with Japanese Govt on PAR

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-certain plume models; therefore,
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I'm sure you also have some excellent ideas.
Danielle

From: LIA03 Hoc
Sent: Thursday, March 24, 2011 4:42 PM
To: Abrams, Charlotte
Cc: LIA02 Hoc; Ramsey, Jack; Emche, Danielle
Subject: RE: RI Request on TP re: coordination with Japanese Govt on PAR

Charlotte,
Is this something that you'd like Janice and I to work on during our shift or are you guys taking care of it back in the office? It should be sent back to LIA04 when complete. It's not a problem for me to do it over here and send to you guys for consideration. I just don't want to duplicate efforts.

Thanks!

PPP/451

-Jenny

From: LIA02 Hoc
Sent: Thursday, March 24, 2011 4:36 PM
To: LIA03 Hoc
Subject: FW: RI Request on TP re: coordination with Japanese Govt on PAR

From: LIA04 Hoc
Sent: Thursday, March 24, 2011 4:31 PM
To: LIA01 Hoc; LIA02 Hoc
Subject: RE: RI Request on TP re: coordination with Japanese Govt on PAR

From: LIA02 Hoc
Sent: Wednesday, March 23, 2011 4:46 PM
To: Doane, Margaret; Ramsey, Jack
Cc: Abrams, Charlotte; Emche, Danielle; LIA04 Hoc
Subject: FW: RI Request on TP re: coordination with Japanese Govt on PAR

Hi Margie – OPA has deferred this issue to OIP. Specifically, it seems the States are concerned with how the NRC came to their 50 mile decision. The perception among the states is that the NRC made this decision in a vacuum. They want us to provide them with a talking point on whether the U.S. coordinated with Japan before we issued the 50 mile directive.

Thanks for your help.

From: LIA04 Hoc
Sent: Wednesday, March 23, 2011 4:30 PM
To: LIA02 Hoc; LIA03 Hoc
Cc: OST05 Hoc
Subject: RI Request on TP re: coordination with Japanese Govt on PAR

Please see Nancy McNamara's email below. OPA called back and said NRC coordinated with the Department of the State but that OIP should have awareness of the question and would be the better contact to craft/provide a talking point on this issue. RI is looking for a TP they can provide to the States.

Thanks, Alison
State Liaison
NRC HQ Operations Center
301-816-5193

From: LIA04 Hoc
Sent: Wednesday, March 23, 2011 3:41 PM
To: Harrington, Holly; McIntyre, David
Cc: OST05 Hoc
Subject: RI Request on TP re: coordination with Japanese Govt on PAR

Dave/Holly, please see highlight before. It is regarding the concern over the PAR recommendation from the angle of whether or not the U.S. government coordinated with Japan before issuance. Are the RSLOs able to convey any information to that effect. All the TPs and blog entries I have seen on this topic are regarding the 50 miles vs. 10 miles.

Thanks,

Alison Rivera
State Liaison
NRC HQ Operations Center
301-816-5193

From: McNamara, Nancy
Sent: Wednesday, March 23, 2011 2:30 PM
To: LIA04 Hoc; OST05 Hoc
Cc: Tifft, Doug; Maier, Bill; Logaras, Harral; Trojanowski, Robert; Barker, Allan; Turtil, Richard
Subject: Request for Consideration

Our states are still struggling with answering questions concerning the NRC making a PAR. One of the many concerns by the States is that during an event in the US, the NRC would publically issue a PAR disagreeing with the State's Protective Action Decision without discussing our disagreement with the State first. We all know that in theory, the expectation during a real event is that when the NRC is informed of the State's PAD and should we disagree with that PAD we would discuss it with the Governor or lead decision maker prior to going to the public.

However, the perception on the recent issuance of the PAR is that the NRC worked in a vacuum and did not coordinate our decision and public issuance with the Japanese Govt. I don't believe this was the case. I understand we had discussions with the Japanese Gov't and there was a mutual understanding between the US and Japan of our intentions.

We believe it would helpful to our States if we can tell them that the process worked the same as would be expected to occur during a US event. Can we do that? If so, what would be the talking point?

From: LIA02 Hoc
Sent: Thursday, March 24, 2011 7:32 PM
To: LIA03 Hoc
Subject: FW: RI Request on TP re: coordination with Japanese Govt on PAR

From: Doane, Margaret
Sent: Thursday, March 24, 2011 7:25 PM
To: LIA02 Hoc; Ramsey, Jack
Cc: Abrams, Charlotte; Emche, Danielle; LIA04 Hoc; Brenner, Eliot
Subject: RE: RI Request on TP re: coordination with Japanese Govt on PAR

Hi. I would suggest that Eliot work with the Chairman's office on this matter. OIP was not involved in this issue and it's sensitive. We don't have any information on how any information was shared.
Margie

From: LIA02 Hoc
Sent: Wednesday, March 23, 2011 4:46 PM
To: Doane, Margaret; Ramsey, Jack
Cc: Abrams, Charlotte; Emche, Danielle; LIA04 Hoc
Subject: FW: RI Request on TP re: coordination with Japanese Govt on PAR

Hi Margie – OPA has deferred this issue to OIP. Specifically, it seems the States are concerned with how the NRC came to their 50 mile decision. The perception among the states is that the NRC made this decision in a vacuum. They want us to provide them with a talking point on whether the U.S. coordinated with Japan before we issued the 50 mile directive.

Thanks for your help.

From: LIA04 Hoc
Sent: Wednesday, March 23, 2011 4:30 PM
To: LIA02 Hoc; LIA03 Hoc
Cc: OST05 Hoc
Subject: RI Request on TP re: coordination with Japanese Govt on PAR

Please see Nancy McNamara's email below. OPA called back and said NRC coordinated with the Department of the State but that OIP should have awareness of the question and would be the better contact to craft/provide a talking point on this issue. RI is looking for a TP they can provide to the States.

Thanks, Alison
State Liaison
NRC HQ Operations Center
301-816-5193

From: LIA04 Hoc
Sent: Wednesday, March 23, 2011 3:41 PM
To: Harrington, Holly; McIntyre, David

PPP/452

Cc: OST05 Hoc
Subject: RI Request on TP re: coordination with Japanese Govt on PAR

Dave/Holly, please see highlight before. It is regarding the concern over the PAR recommendation from the angle of whether or not the U.S. government coordinated with Japan before issuance. Are the RSLOs able to convey any information to that effect. All the TPs and blog entries I have seen on this topic are regarding the 50 miles vs. 10 miles.

Thanks,

Alison Rivera
State Liaison
NRC HQ Operations Center
301-816-5193

From: McNamara, Nancy
Sent: Wednesday, March 23, 2011 2:30 PM
To: LIA04 Hoc; OST05 Hoc
Cc: Tifft, Doug; Maier, Bill; Logaras, Harral; Trojanowski, Robert; Barker, Allan; Turtil, Richard
Subject: Request for Consideration

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We believe it would helpful to our States if we can tell them that the process worked the same as would be expected to occur during a US event. Can we do that? If so, what would be the talking point?

From: Maupin, Cardelia
Sent: Thursday, March 24, 2011 10:26 AM
To: OST05 Hoc
Subject: Out of Office: State Contacts for KI.xlsx

I am working from an alternative work site. I will periodically check my emails. I can also be reached through the NRC Operator.

PPP/453

From: Turtil, Richard
Sent: Thursday, March 24, 2011 11:20 AM
To: LIA04 Hoc; OST05 Hoc
Cc: LIA11 Hoc; LIA01 Hoc
Subject: FW: CBP

Fyi...

From: MCALEENAN, KEVIN K. [mailto:KEVIN.Mcaleenan@dhs.gov]
Sent: Thursday, March 24, 2011 11:17 AM
To: Turtil, Richard; nbm8@cdc.gov; tupin.edward@epa.gov
Cc: fvd3@cdc.gov; hvr9@cdc.gov; Nitin.Natarajan@hhs.gov; SIMMONS, PATRICK; REESE, IRA S
Subject: Re: CBP

Yes. Matthew, can you identify a time. Pat/Ira, stand by for call information.

Kevin McAleenan
Deputy Assistant Commissioner
Office of Field Operations

From: prvs=0575f424f=Richard.Turtil@nrc.gov <prvs=0575f424f=Richard.Turtil@nrc.gov>
To: Marano, Nina (CDC/OID/NCEZID) <nbm8@cdc.gov>; MCALEENAN, KEVIN K.; tupin.edward@epa.gov <tupin.edward@epa.gov>
Cc: Brunette, Gary W. (CDC/OID/NCEZID) <fvd3@cdc.gov>; McAdam, David (CDC/OID/NCEZID) <hvr9@cdc.gov>; Natarajan, Nitin (OS) <Nitin.Natarajan@hhs.gov>
Sent: Thu Mar 24 10:53:29 2011
Subject: RE: CBP

Might McAleenan (DHS), Tupin (EPA), and me (Turtil, NRC) speak today prior to this evening's call with States coordinated by HHS? How about at 2:00 pm today. I can arrange for a bridge line.

Rich
Richard Turtil, Chief
Intergovernmental Liaison Branch
Office of Federal and State Materials and Environmental Management Programs
U.S. Nuclear Regulatory Commission
301-415-2308
800-368-5642

From: Marano, Nina (CDC/OID/NCEZID) [mailto:nbm8@cdc.gov]
Sent: Thursday, March 24, 2011 10:50 AM
To: Turtil, Richard; 'KEVIN.Mcaleenan@dhs.gov'
Cc: Brunette, Gary W. (CDC/OID/NCEZID); McAdam, David (CDC/OID/NCEZID); Natarajan, Nitin (OS)
Subject: Re: CBP

Here is the EPA contact for the cargo screening guidelines.
'tupin.edward@epa.gov'

prop/454

From: McNamara, Nancy
Sent: Thursday, March 24, 2011 12:04 PM
To: LIA04 Hoc; OST05 Hoc
Subject: Followup to NH Legislature Request

Apologize if I wasn't clear as to what assistance I am requesting from the Liaison Team on my previous email

The Region is seeking approval for either the Region or HQs to support the NH Legislatures request.

PROP/455

From: LIA11 Hoc
Sent: Thursday, March 24, 2011 11:27 AM
To: OS Secretarys Operations Center
Cc: LIA01 Hoc; LIA11 Hoc; LIA04 Hoc; OST05 Hoc; Turtil, Richard
Subject: CBP and other guidance

Per the request on the ESF-8 call today, can you please provide NRC HOC with any guidance for passengers, baggage and other importation guidance; especially those expected to be issued today.

Lia01.hoc@nrc.gov
Lia11.hoc@nrc.gov
Lia04.hoc@nrc.gov
Ost05.hoc@nrc.gov

Thanks,

Ted Smith
NRC Operations Office
Federal Liaison Desk

PPP A56

From: PMT03 Hoc
Sent: Thursday, March 24, 2011 2:24 PM
To: Hoc, PMT12
Subject: FW: I-131 found at Limerick

FYI and action as appropriate.

John

From: Henderson, Pamela
Sent: Thursday, March 24, 2011 2:10 PM
To: OST05 Hoc
Cc: McNamara, Nancy; LIA04 Hoc; LIA03 Hoc; PMT03 Hoc; Hoc, PMT12; Tifft, Doug; Nimitz, Ronald; Screnci, Diane; Weerakkody, Sunil; Lew, David; Dean, Bill; Rogge, John; Krohn, Paul; DiPaolo, Eugene; Clifford, James; Roberts, Darrell; Dionne, Bruce; Furia, Joseph; Hinson, Felicia; McKinley, Raymond; Moslak, Thomas; Noggle, James; Rolph, Ronald
Subject: I-131 found at Limerick

Just heard from Limerick that the licensee detected I-131 in rain water samples. They found 47 pCi/l on-site and 76 pCi/l at their condensate storage dike. A sample taken offsite in Stowe, PA at 92 pCi/l. The licensee believes the activity is due to fallout from Fukushima.

PPP/457

From: LIA05 Hoc
Sent: Thursday, March 24, 2011 2:52 PM
To: Feighert, Dan; Andrew Seward; Harry Sherwood; John Simpson; Michelle Ralston; Steve Horwitz; Tim Greten; Vanessa E. Quinn
Subject: NRC OPA Talking Poinyts From Yesterday
Attachments: Talking Points 12.pdf

FYI,

In case you did not see these.

Bonnie Sheffield Dayshift 0700-1500
Ken Wierman Nightshift 1500-2300
FEMA REP Liaison
NRC Operations Center
(301) 816-5187

******~~FOR OFFICIAL USE ONLY~~******
~~DO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY~~

PPP/458

Quake_TP_3_23.docx

OPA

TALKING POINTS

JAPAN NUCLEAR SITUATION

As of 3/23/2011 2:30 PM

Updates in Red

CONTENTS

1. **The Safety of U.S. Nuclear Power Plants**
2. **Monitoring Radiation in the United States**
3. **The Situation in Japan**

PART 1: THE SAFETY OF U.S. NUCLEAR POWER PLANTS

- The NRC is always looking to learn information that can be applied to U.S. reactors and we will analyze the information that comes from this incident. President Obama has asked the agency to conduct a comprehensive review of the safety of U.S. nuclear plants; the agency will do so.

- The NRC issued an Information Notice on March 18 to all of its operating nuclear power plants describing the effects of the March 11 earthquake and tsunami on Japanese nuclear power plants. The purpose of the Information Notice is to inform the plants of the most recent information available to the NRC. The NRC expects U.S. nuclear power plants will review the entire notice to determine how it applies to their facilities and consider actions, as appropriate.

- U.S. nuclear power plants are built to withstand environmental hazards, including earthquakes. Even those plants that are located outside of areas with extensive seismic activity are designed for safety in the event of such a natural disaster.

- The NRC requires that safety-significant structures, systems, and components be designed to take into account the most severe natural phenomena historically reported for the site and surrounding area. The NRC then adds a margin for error to account for the limitations on historical data. In other words, U.S. nuclear power plants are designed to be safe based on historical data to predict the area's maximum credible earthquake.

- In response to MSNBC.com report ranking US NPPs according to vulnerability to earthquakes: The NRC does not rank nuclear power plants according to their vulnerability to earthquakes. This "ranking" was developed by an MSNBC reporter using partial information and an even more partial understanding of how we evaluate plants for seismic risk. Each plant is evaluated individually according to the geology

of its site, not by a "one-size-fits-all" model - therefore such rankings or comparisons are highly misleading.

- In the 1980s and 1990s, the NRC required several changes to the BWR Mark I containments at U.S. plants to ensure they could continue to deal with severe events. The first issue involved the design's large circular tube, or "torus," which holds enough water to safely condense the large volumes of steam that could be released during a severe event. The NRC became aware in the mid-late 1970s that designers might have underestimated the forces the torus would have to withstand during an event. The NRC laid out an appropriate generic approach to resolving the issue in August 1982, and individual reactors carried out their plant-specific torus reinforcement efforts.

- The second issue involved the potential for containment failure following an extended loss of decay heat removal capability. Under the Mark I Containment Performance Improvement program that ran from the late 1980s into the early 1990s, all Mark I BWRs operating at that time installed hardened vent systems to provide an additional decay heat removal capability to protect against containment overpressure failure. The containment vent system could also be used to control hydrogen concentrations in containment. Two units, Browns Ferry 1 and 3, were in extended shutdown at that time, and hardened vents were installed before those reactors restarted. In addition most plants provided an alternate water injection capability that is independent of normal and emergency power supplies and enhanced the reliability of the automatic depressurization system to reduce the likelihood of a challenge to containment. Furthermore, in 2003, the Commission issued the "Hydrogen Rule" (10CFR50.44) that required all BWR Mark I plants to operate in an inert atmosphere to preclude the possibility of a hydrogen explosions in containment.

- The NRC recommendation related to a 50-mile evacuation zone for Americans near the affected nuclear power plants in Japan is consistent with the same kind of approach that

would be used in the United States should a comparable, although extremely unlikely, event take place here.

- In November 1976, a federal task force was formed to look at salient emergency planning issues for U.S. nuclear power plants. Out of that comprehensive evaluation came a recommendation that a 10-mile-radius EPZ would assure that "prompt and effective actions can be taken to protect the public in the event of an accident" at a plant. This was based on research showing the most significant impacts of an accident would be expected in the immediate vicinity of a plant and therefore any initial protective actions, such as evacuations or sheltering in place, should be focused there. That does not mean the protective actions could not expand beyond the 10-mile radius. Rather, emergency planners have always known such actions could be necessary if the situation warranted it. (See NUREG 0654/FEMA-REP-1.)

- Following the events of Sept. 11, 2001, NRC required all nuclear plant licensees to take additional steps to protect public health and safety in the event of a large fire or explosion. In accordance with NRC regulations, all nuclear power plants are required to maintain or restore cooling for the reactor core, containment building, and spent fuel pool under the circumstances associated with a large fire or explosion. These requirements include using existing or readily available equipment and personnel, having strategies for firefighting, operations to minimize fuel damage, and actions to minimize radiological release to the environment. In general, mitigative strategies are plans, procedures, and pre-staged equipment whose intent is to minimize the effects of adverse events. If needed, these mitigative strategies could also be used during natural phenomena such as earthquakes, tornadoes, floods, and tsunami.

PART 2: MONITORING RADIATION IN THE UNITED STATES

- The NRC is working closely with our federal partners to monitor radiation releases from the Japanese nuclear power plants. Given the results of the monitoring and distance between Japan and Hawaii, Alaska, U.S. Pacific Territories and the U.S. West Coast, the NRC expects the U.S. to avoid any harmful levels of radioactivity. Reports of radiation being detected in the United States are all far below levels that would present a health risk. Additional questions regarding monitoring of the radioactive release should be referred to DOE at 202 586 4940.

- The Department of Energy has been designated the lead agency for communicating information to the states regarding monitoring of radiation heading toward or over the United States. The DOE's Lawrence Livermore National Laboratory (National Atmospheric Release Assessment Center) is monitoring weather patterns over the Pacific Ocean. The Environmental Protection Agency maintains air monitoring stations throughout the country and has reinforced its monitoring effort. DOE will provide aerial monitoring. Questions about this effort should be directed to DOE at 202 586 4940.

- The Environmental Protection Agency has increased its radiation monitoring in the western U.S. Data from the EPA's RadNet is available on the EPA's website.

- [Only if specifically asked] The NRC is aware that Diablo Canyon nuclear power plant in California, among others, have detected a very low level of radiation. The site believes that the source of the radiation is likely the Fukushimi Daiichi nuclear power plant in Japan. The amounts detected are barely detectable on the instruments and pose no danger to public health and safety. The NRC continues to believe, based on all available information, that no harmful levels of radiation will reach U.S. territory. This information has been shared with the U.S. Department of Energy and the U.S. Environmental Protection Agency. Additional questions regarding monitoring of the radioactive release should be referred to DOE at 202 586 4940.

- In accordance with established protocols, U.S. Customs and Border Protection (CBP) employs several types of radiation detection equipment in its operations at both air and sea ports, and uses this equipment, along with specific operational protocols, to resolve any security or safety risks that are identified with inbound travelers and cargo. Out of an abundance of caution, CBP has issued field guidance reiterating its operational protocols and directing field personnel to specifically monitor maritime and air traffic from Japan. CBP will continue to evaluate the potential risks posed by radiation contamination on inbound travelers and cargo and will adjust its detection and response protocols, in coordination with its interagency partners, as developments warrant.

PART 3: THE SITUATION IN JAPAN

- As of Sunday, March 20, 2011, the NRC continues to monitor the nuclear crisis in Japan stemming from the March 11 earthquake and tsunami. NRC's top priorities are the continued assessment of radiological conditions, dose predictions, and protective action recommendations. This effort focuses primarily on conditions in Japan around the vicinity of the Fukushima Daiichi nuclear power plant. The NRC is also working with DOE to model the flow of radiation across the Pacific Ocean toward the United States.

- A team of ~~10~~ NRC experts continues to assist Japanese efforts in Tokyo as part of a USAID-sponsored assistance effort. [If asked: One team member fell ill and returned to the US. Numbers in the team and names change; please check if asked.]

- The Commission was briefed by the NRC staff on the situation in Japan at a public meeting on Monday, March 21, 2011. A transcript for the public commission meeting held yesterday has been posted. The meeting included an overview of NRC actions related to the Japanese emergency and the possible short- and long-term activities for the NRC. The transcript can be found here: http://www.nrc.gov/reading-rm/doc-collections/commission/recent/2011/. And the slides from the meeting are located at: http://www.nrc.gov/reading-rm/doc-collections/commission/slides/2011/20110321/staff-slides-03212011-meeting-rev1.pdf.

- Chairman Jaczko gave opening remarks at the meeting. He said, in part, "We have a responsibility to the American people to undertake a systematic and methodical review of the safety of our own domestic nuclear facilities, in light of the natural disaster and the resulting nuclear emergency in Japan. Beginning to examine all available information is an essential part of our effort to analyze the event and understand its impact on Japan and implications for the United States. Our focus is always on keeping plants and radioactive materials in this country safe and secure."

A copy of his full opening remarks can be found here: http://www.nrc.gov/reading-rm/doc-collections/news/2011/11-054.pdf

- Based on calculations performed by NRC experts, we continue to believe that it is appropriate for U.S. residents within 50 miles of the Fukushima reactors to evacuate. Our recommendation is based on NRC guidelines for public safety that would be used in the United States under similar circumstances.

- The 10-mile EPZ reflects the area where projected doses from design basis accidents at nuclear power plants would not exceed the EPA's protective action guidelines, and we are confident that it would be adequate even for severe accidents. However, the 10-mile zone was always considered a base for emergency response that could be expanded if the situation warranted. The situation in Japan, with four reactors experiencing exceptional difficulties simultaneously, creates the need to expand the EPZ beyond the normal 10-mile radius, based on our limited data and conservative assumptions.

- The NRC is closely monitoring information about the spent fuel pools as well as radiation levels at the Japanese nuclear power plants. Given the totality of the situation, the NRC's recommendation for U.S. residents within 50 miles of the Fukushima reactors to evacuate remains unchanged. That recommendation was based on actual radiation levels in the nuclear complex.

- The Japanese government has formally asked for U.S. assistance in responding to nuclear power plant cooling issues triggered by an earthquake and tsunami on March 11.

- The NRC is coordinating its actions with other federal agencies as part of the U.S. government response. The NRC's headquarters Operations Center was activated at the beginning of the event and has been monitoring the situation on a 24-hour basis ever since.

From: LIA04 Hoc
Sent: Thursday, March 24, 2011 11:42 AM
To: Turtil, Richard
Subject: FW: Urgent Request from NH Legislature

Importance: High

Rich,

Nancy needs an answer today on whether NRC can attend. She said that Region I can support, but she wants it run by and approved by HQ on whether NRC can attend, and if so, who (RI or HQ staff). Who approves this? Can we get an answer today?

Thanks,
Cindy

From: McNamara, Nancy
Sent: Thursday, March 24, 2011 11:27 AM
To: LIA04 Hoc; OST05 Hoc
Cc: Dean, Bill; Turtil, Richard; Roberts, Darrell; Clifford, James; Wilson, Peter; Lew, David; Weerakkody, Sunil; Wittick, Brian
Subject: Urgent Request from NH Legislature
Importance: High

The New Hampshire State Legislature has requested a representative from the NRC to speak at a session on April 4, 2010 at 1:00 pm focusing on the Japanese Event in relation to the power plants within their jurisdiction (Seabrook, Vermont Yankee). The State Homeland Security and Emergency Response Director (our SLO) has been asked to speak to issues within the State's purview on offsite safety and response and emergency plans.

They would like the NRC to address the following:
Are people in New Hampshire at risk for same type of event?
Safety systems at the Seabrook and Vermont Yankee plants that would prevent a similar occurrence.
Is there more risk there than in New Hampshire?

There was no preference from the State whether the NRC representative be from the Region or Headquarters.

The NH Legislature is a very large body of 400 members. It would be on the House docket but we can expect members from both sides be present. The meeting is open to the public and they probably expect some media to attend.

IMMEDIATE ACTION:
They would like to receive confirmation from the NRC on our attendance TODAY so they may place it on the docket.

PPP/459

From: LIA04 Hoc
Sent: Thursday, March 24, 2011 12:30 PM
To: LIA06 Hoc
Subject: FW: Urgent Request from NH Legislature

Importance: High

Mike,

RI can support this. Is this something that you want to run by the ET at your next meeting before I respond to RI to move forward with their attendance at the NH State Legislature?

Thanks,
Cindy

****
Cindy Flannery
State Liaison – Liaison Team
NRC Operation Center

From: McNamara, Nancy
Sent: Thursday, March 24, 2011 11:27 AM
To: LIA04 Hoc; OST05 Hoc
Cc: Dean, Bill; Turtil, Richard; Roberts, Darrell; Clifford, James; Wilson, Peter; Lew, David; Weerakkody, Sunil; Wittick, Brian
Subject: Urgent Request from NH Legislature
Importance: High

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The NH Legislature is a very large body of 400 members. It would be on the House docket but we can expect members from both sides be present. The meeting is open to the public and they probably expect some media to attend.

IMMEDIATE ACTION:
They would like to receive confirmation from the NRC on our attendance TODAY so they may place it on the docket.

PPP/460

From: McNamara, Nancy
Sent: Thursday, March 24, 2011 1:31 PM
To: LIA04 Hoc
Cc: Turtil, Richard; LIA06 Hoc; Piccone, Josephine
Subject: RE: Urgent Request from NH Legislature

Thank you for the quick response.

From: LIA04 Hoc
Sent: Thursday, March 24, 2011 1:22 PM
To: McNamara, Nancy
Cc: Turtil, Richard; LIA06 Hoc; Piccone, Josephine
Subject: RE: Urgent Request from NH Legislature

Nancy,

I discussed this with Josie and Rich. I also discussed this with the Liaison Team Director and he has briefed the Executive Team in the Operation Center.

Please move forward with attendance/participation by a RI representative.

Thanks,
Cindy

****
Cindy Flannery
State Liaison – Liaison Team
NRC Operation Center

From: McNamara, Nancy
Sent: Thursday, March 24, 2011 11:27 AM
To: LIA04 Hoc; OST05 Hoc
Cc: Dean, Bill; Turtil, Richard; Roberts, Darrell; Clifford, James; Wilson, Peter; Lew, David; Weerakkody, Sunil; Wittick, Brian
Subject: Urgent Request from NH Legislature
Importance: High

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Safety systems at the Seabrook and Vermont Yankee plants that would prevent a similar occurrence.
Is there more risk there than in New Hampshire?

There was no preference from the State whether the NRC representative be from the Region or Headquarters.

RPP/461

The NH Legislature is a very large body of 400 members. It would be on the House docket but we can expect members from both sides be present. The meeting is open to the public and they probably expect some media to attend.

IMMEDIATE ACTION:
They would like to receive confirmation from the NRC on our attendance TODAY so they may place it on the docket.

From: test@ft.ctf.nrc.gov
Sent: Thursday, March 24, 2011 10:32 PM
To: PMT07 Hoc; PMT11 Hoc
Attachments: [Untitled].pdf

Please open the attached document. This document was digitally sent to you using an HP Digital Sending device.

PPP/462

Congressional Research Service

The Japanese Nuclear Accident: Technical Aspects

Jonathan Medalia
Specialist in Nuclear Weapons Policy

March 25, 2011

Congressional Research Service
7-5700
www.crs.gov

CRS Report for Congress
Prepared for Members and Committees of Congress

Summary

This report provides information on technical aspects of the Japanese nuclear accident.

Many atoms are stable; they remain in their current form indefinitely. Other atoms are unstable, or radioactive. They "decay" or "disintegrate," transforming into atoms of a different element. In the process of decay, they emit various types of radiation, each with its own characteristics and potential for human health effects.

Nuclear reactors use uranium or mixed oxides (uranium oxide and plutonium oxide, or MOX) for fuel. Uranium and plutonium atoms fission, or split, releasing both energy and neutrons that cause additional fissions. A nuclear reactor's core consists of fuel rods made of uranium or MOX encased in zirconium, and neutron-absorbing control rods that are removed or inserted to start or stop the fission process. This assembly is placed underwater to carry off excess heat. The accident at the Fukushima Daiichi nuclear power plant prevented cool water from being added to the core of several reactors, causing water to evaporate and temperature to rise. High heat could melt the fuel rods and potentially lead to a major release of radioactive materials into the air.

When uranium and plutonium fission, they split into smaller atoms that are highly radioactive and generate much heat; indeed, fuel rods that have just been removed from a reactor are much more radioactive, and hotter, than unused fuel rods. After fuel rods can no longer efficiently produce energy, they are considered "spent" and are placed in cooling pools of water for several years to keep them from overheating while the most radioactive materials decay. A concern about Daiichi reactor 3 is that it is the only one that uses MOX fuel, which has more plutonium than is found in conventional uranium spent fuel rods; plutonium poses a much greater health threat than does uranium. A concern about the spent fuel pool at reactor 4 is that it may have little or no water, yet has more fuel rods than pools at the other five reactors, as it contains all the active fuel rods that were temporarily removed from the reactor core in November 2010 to permit plant maintenance in addition to spent fuel rods.

A nuclear reactor cannot explode like an atomic bomb because the concentration of the type of uranium or plutonium that fissions easily is too low to support a runaway chain reaction, and a nuclear weapon requires one of two configurations, neither of which is present in a reactor.

Some types of radiation have enough energy to knock electrons off atoms, creating "ions" that are electrically charged and are highly reactive. Ionizing radiation is thus harmful to living cells. It strikes people constantly, but in doses low enough to have negligible effect. The concern about the reactor accident is that it will release highly radioactive materials that pose a danger to human health. For example, cesium-137 emits powerful gamma rays, which can penetrate the body like x-rays and damage cells. Ingesting iodine-131 increases the risk of thyroid cancer. Potassium iodide tablets protect the thyroid, but there is no need to take them absent an expectation of ingesting iodine-131.

While some radioactive material from the Japanese accident may reach the United States, it appears most unlikely that this material will result in harmful levels of radiation. In traveling thousands of miles between the two countries, some radioactive material will decay, some will be washed out of the air by rain, and its concentration will diminish as it disperses.

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Introduction

The Japanese earthquake and tsunami of March 2011 caused extensive damage to the Fukushima Daiichi Nuclear Power Plant (NPP). This damage has released some radioactive materials, and there are widespread fears about the health effects of current and possible future releases. These fears, and public concern about radiation in general, have attracted the world's attention even though the number of casualties resulting from this accident is a tiny fraction of those resulting from the earthquake and tsunami. This report presents scientific and technical aspects of these issues to provide a framework for answering many questions about this event.

What Is Radiation?[1]

Many atoms are stable: they will remain in their current form indefinitely. Some atoms are unstable, or radioactive. They "decay" or "disintegrate," i.e., transform into atoms of a different element, such as through emission of radiation, which permits the atom to reach a more stable state.[2] The most common types of radiation emitted in decay, and their characteristics, are:

- Alpha particles are two protons plus two neutrons. They are electrically charged and massive by subatomic standards, and travel relatively slowly, so they lose energy quickly in matter. They travel only an inch in air, and are stopped by a sheet of paper or the dead outer layers of skin.
- Beta particles (an electron or positron[3]) are electrically charged, so are readily absorbed by matter, but are much less massive than alpha particles or neutrons. Depending on their energy, some are stopped by outer layers of skin, while others can penetrate several millimeters. They can travel up to several feet in air.
- Neutrons are typically emitted by heavy atoms like uranium and plutonium. They have no electrical charge and may be highly penetrating, depending on their speed. They can travel tens of meters in air; energetic neutrons can penetrate the body. They are stopped by hydrogen-containing material like plastic or water.
  can be slow-down
- Gamma rays are photons released during radioactive decay. Photons may be thought of as packets of electromagnetic energy; radio waves, light, and x-rays are less-energetic photons. Photons have no rest mass. Gamma ray energies vary widely. Those of medium to high energies are highly penetrating and can travel hundreds of meters in air. Stopping them requires a dense material like lead. thick

Several measurements are useful in discussing radioactivity. Radioactivity is measured in units of curies (Ci), where 1 Ci = 3.7×10^{10} disintegrations per second. Specific activity—curies per gram—measures how radioactive a material is. Half-life is the time for half the atoms in a mass of a radionuclide to decay. Specific activity is inversely related to half-life: a material that decays

[1] This section was written by Jonathan Medalia, Specialist in Nuclear Weapons Policy, Foreign Affairs, Defense, and Trade Division.

[2] For descriptions of radiation, see Roger Eckhardt, "Ionizing Radiation—It's Everywhere," *Los Alamos Science*, no. 23, 1995, http://www.fas.org/sgp/othergov/doe/lanl/00326627.pdf, and U.S. Environmental Protection Agency, "Radiation: Ionizing and Non-Ionizing," http://www.epa.gov/radiation/understand/index.html.

[3] A positron is a positively-charged electron.

not always

rapidly gives off a large amount of radiation, but disappears (by decaying into another element) quickly. For example, radioactive iodine-131 is intensely radioactive. It has a specific activity of 124,000 curies per gram and a half-life of 8 days; in 10 half-lives (80 days), 99.9 percent of the iodine-131 created at a given time will have decayed into another element. In contrast, uranium-235 has a specific activity of 0.000002 curies per gram and a half-life of 700 million years; it emits so little radiation that it is safe to handle without gloves, but it would take 7 billion years (10 half-lives) for 99.9 percent of it to decay.[4] These measures deal with the rate of decay. Energy released per decay is measured differently. One measure is the electron volt or, more commonly, thousands of electron volts (keV).[5] The penetrating power of gamma rays, and thus their threat to human health, increases as their energy increases. ?

Each radioactive atom, or "radionuclide," decays in a specific way. For example, when uranium-235 decays,[6] it emits gamma rays, most of which are of 186 keV (a low energy) or less, and alpha particles; cesium-137 emits beta particles and gamma rays, virtually all of which are of 662 keV, a medium energy. Each radionuclide that emits gamma rays does so in a unique pattern, or "spectrum," of energies that is the primary characteristic used to identify many radionuclides.

Radioactivity and Nuclear Reactors[7] [8]

Some heavy atoms, such as uranium-235 and various isotopes of plutonium, "fission" when struck by a neutron. In fission, an atom typically (1) splits into two lighter atoms, called "fission products"; (2) releases two or three neutrons; and (3) emits vast quantities of radiation. Fission products are often highly radioactive, such as cesium-137 and ~~iodine-131~~. Sr-90

Uranium-235 and plutonium-239 can support a nuclear chain reaction: to oversimplify, one neutron fissions one atom, which releases two neutrons that fission two atoms, releasing four neutrons that fission four atoms, and so on. Neutrons thus drive chain reactions. In an atomic bomb, the chain reaction proceeds in a fraction of a second, releasing vast quantities of energy ~~all at once~~. In a nuclear reactor, operators carefully control the rate of fission with neutron-absorbing material, such as boron, or other means. If fission proceeds too quickly, it gets out of control, in which case the fuel rods generate so much heat that they melt. If fission proceeds too slowly, such as when neutron-absorbing control rods are inserted into the reactor core, the chain reaction stops. Fission that proceeds at the desired rate releases energy over several years from one load of fuel. The energy heats water to generate steam that spins turbines to generate electricity. The ability of boron to absorb large quantities of neutrons explains why boric acid was added to seawater in an attempt to cool the Fukushima Daiichi reactors and spent fuel pools.

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[4] For data on half-lives and other characteristics of radionuclides, see Lawrence Berkeley National Laboratory, "Exploring the Table of Isotopes," http://ie.lbl.gov/education/isotopes.htm, and U.S. Department of Energy. Office of Environmental Management. "Table B.1. Characteristics of important radionuclides," http://www.orau.org/ptp/PTP%20Library/library/DOE/Misc/Table%20B_1_%20Characteristics%20of%20Important%20Radionuclides.htm.

[5] "An electron volt is a measure of energy. An electron volt is the kinetic energy gained by an electron passing through a potential difference of one volt." Fermi National Accelerator Laboratory, "How Big Is an Electron Volt?," http://www-bd.fnal.gov/public/electronvolt.html.

[6] The number following the name of an element is the number of protons plus neutrons in the nucleus.

[7] This section was written by Jonathan Medalia, Specialist in Nuclear Weapons Policy, Foreign Affairs, Defense, and Trade Division, and Mark Holt, Specialist in Energy Policy, Resources, Science, and Industry Division.

[8] For the status of each reactor, see "Status of the Nuclear Reactors at the Fukushima Daiichi Power Plant," *New York Times,* http://www.nytimes.com/interactive/2011/03/16/world/asia/reactors-status.html.

A nuclear reactor cannot explode like an atomic bomb because the fuels and configurations differ. In nature, uranium is 99.3 percent uranium-238 and 0.7 percent uranium-235. Only the latter is "fissile," that is, it will fission when struck by neutrons moving at relatively slow speeds. To make fuel for a bomb or a reactor, the fraction of uranium-235 must be increased through "enrichment."[9] An atomic bomb uses uranium enriched to about 90 percent uranium-235 ("highly enriched uranium," HEU), while the enrichment level for nuclear reactor fuel is about 5 percent ("low enriched uranium," LEU). LEU does not have enough uranium-235 to support a chain reaction of the sort found in an atomic bomb. In addition, a bomb must be configured in one of two ways to create a large enough mass (a "critical mass") to support a runaway chain reaction; reactors are arranged in an entirely different configuration.

A nuclear reactor uses pellets of LEU or mixed oxides (MOX, i.e., uranium oxide and plutonium oxide) for fuel. Fuel rods—thin zirconium tubes typically between 12 and 15 feet long—hold the fuel. According to one report,

> Zirconium is the metal of choice in this application because it absorbs relatively few of the neutrons produced in a fission reaction and because the metal is highly resistant to both heat and chemical corrosion.
>
> Low neutron absorption is vital to any structural material used in a nuclear reactor because large numbers of neutrons produced by the reaction must be free to interact simultaneously with all the nuclear fuel confined inside hundreds of fuel rods. This interaction sustains the necessary chain reaction throughout the reactor's core.[10]

Even with control rods fully inserted to halt the nuclear chain reaction, the radioactive decay of the fuel rods (primarily from fission products) generates heat, which must be dissipated. At Daiichi, cooling was done by pumping cool water into the reactor. If the heat is not dissipated, the rods become so hot that they melt or burn. A fire would loft particles of radioactive material into the air. If fuel rods become too hot, their zirconium cladding may also react with water and produce hydrogen, which is believed to have caused the explosions at Daiichi units 1-3. This explains the urgency of the efforts to keep the fuel rods cool, and why the reactors suffered major damage when backup cooling systems failed.

As the fuel fissions in a reactor, the fraction of fission products in fuel rods increases. When the ratio of fission products to fissile material rises to the point at which a fuel rod can no longer efficiently maintain a chain reaction, it is referred to as spent fuel. "Spent" seems to imply that the fuel has been used up, and is therefore less dangerous, than fresh uranium fuel, but this is not necessarily the case. When fuel rods are first removed from a nuclear reactor, they have a high level of short-lived radionuclides, unlike new fuel rods, so they are intensely radioactive. This radioactivity generates intense heat, so spent fuel rods are placed in pools of water to cool them, typically for several years, until most of the short-lived radionuclides decay. If a pool is drained, the fuel rods would heat up, melt, and perhaps burn. This possibility led to concern about the spent fuel rods at Daiichi reactor 4:

> The spent fuel pools can be even more dangerous than the active fuel rods, as they are not contained in thick steel containers like the reactor core. As they are exposed to air, the

[9] For information on the enrichment process, see U.S. Nuclear Regulatory Commission. "Fact Sheet on Uranium Enrichment," May 15, 2009, http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/enrichment.html.

[10] "Zirconium: Covering for Fuel Rods," *New York Times*, June 9, 1995, http://www.nytimes.com/1995/06/09/nyregion/zirconium-covering-for-fuel-rods.html.

> zirconium metal cladding on the rods can catch fire, and a deadly mix of radioactive elements can spew into the atmosphere. ...
>
> According to Tokyo Electric [Power Company]'s data, the spent fuel pool at the No. 4 reactor contains 548 fuel assemblies that were in use at the reactor until last November, when they were moved to the storage pool on the site. That means that the fuel rods were only recently taken out of active use and that their potential to burn and release radioactivity is higher than spent fuel in storage for a longer period.[11]

Another danger comes from MOX fuel because even very small amounts of plutonium, if inhaled, can cause lung cancer. This explains the concern about Daiichi reactor 3, as it is the only one that uses MOX fuel, although plutonium is also created during the irradiation of uranium fuel.

potentially

Health Effects of Ionizing Radiation[12]

Humans are continuously exposed to significant amounts of ionizing radiation from various naturally occurring and manmade sources. Because of its relatively high energy level, ionizing radiation is capable of producing significant biological change. Ionizing radiation gets its name from the fact that it causes ionization — ejection of electrons — when it interacts with atoms in the molecules that constitute cells and tissue. This process creates charged, often unstable, and highly reactive entities. The ensuing reactions may result in permanent molecular damage. Radiation disrupts cell division, which is why the most sensitive tissues are those in which cells frequently divide, such as skin, hair, bone marrow (where precursor cells give rise to new blood cells), and the cells that line the stomach and small intestine. Ionizing radiation may also damage DNA in chromosomes, resulting in mutations that are responsible for long-term effects such as the development of cancer.

Sources of Radiation Exposure

Naturally occurring sources of ionizing radiation to which all humans are exposed include cosmic radiation from outer space and terrestrial radiation from radioactive materials in rock deposits and soil. The Earth's atmosphere acts as a shield against cosmic radiation, so exposure levels increase with altitude (especially when flying). The most important source of terrestrial exposure is the inhalation of radon, which is produced by the radioactive decay of naturally occurring uranium.

In the United States, radiation exposure as a result of medical practice has increased significantly over the past 25 years as a result of the growing use of CT scans and nuclear medicine procedures to diagnose and treatment disease. Other manmade sources of radiation account for a relatively small fraction of the U.S. population's total exposure. Those sources include consumer products (e.g., cigarettes, building materials, appliances); industrial, security, educational, and research activities, including nuclear power generation; and various types of occupational exposure.

[11] David Sanger, Matthew Wald, and Hiroko Tabuchi, "U.S. Sees 'Extremely High' Radiation Level at Plant, Focusing on Spent Fuel's Impact," *New York Times*, March 17, 2011, p. 13.

[12] This section was written by Jonathan Medalia, Specialist in Nuclear Weapons Policy, Foreign Affairs, Defense, and Trade Division, and C. Stephen Redhead, Specialist in Health Policy, Domestic Social Policy Division.

Measuring Exposure: Absorbed Dose v. Equivalent Dose

Human exposure is measured by the amount of energy that ionizing radiation deposits in a unit mass of tissue. This is called the *absorbed dose*. The international unit for the absorbed dose is the gray (Gy), which replaced an earlier unit of dose, the rad (short for "radiation absorbed dose"). One gray equals 100 rad. The biological impact of ionizing radiation, however, depends not just on the absorbed dose (i.e., the amount of energy absorbed) but on the type of radiation. For example, an alpha particle is more damaging to biological tissue than a beta particle or gamma radiation because of its mass, electrical charge, and slow speed. Alpha particles lose their energy much more densely along the relatively short path they travel though biological tissue. Thus, 1 Gy of alpha radiation is more harmful than 1 Gy of beta or gamma radiation. $W_T = 20$

20 X

Radiation scientists use another quantity, called *equivalent dose*, which allows them to measure all types of exposure on an equal basis. Equivalent dose is equal to the absorbed dose multiplied by a factor that takes into account the relative effectiveness of each type of radiation to cause harm. For beta particles and gamma radiation, the factor is set at 1; that is, the absorbed dose equals the equivalent dose. For alpha particles the factor is set at 20, which means that the equivalent dose is 20 times the absorbed dose. This reflects the fact that alpha radiation is more harmful than beta and gamma radiation. The international unit for the equivalent dose is the sievert (Sv). So 1 Sv of alpha radiation to the lung would create the same risk of lung cancer as 1 Sv of beta radiation. The sievert is a large unit relative to common exposures, so the more common unit is the millisievert (mSv), which is one-thousandth of a sievert. The sievert replaced an earlier unit of equivalent dose, the rem, which is still widely used in the United States. One sievert = 100 rem; 1 mSv = 100 millirem (mrem).

The National Council on Radiation Protection and Measurement (NCRP) estimates that the *average annual equivalent dose* to an individual in the United States is 6.2 mSv (620 mrem).[13] Of that amount, 3.1 mSv (310 mrem) is from natural background sources, primarily inhalation of radon and its decay products, and 3.0 mSv (300 mrem) is from diagnostic and therapeutic medical procedures. The remaining 0.1 mSv (10 mrem) is from consumer products, industrial activities, and occupational exposure, among other sources. For comparison, the radiation dose from a jet airplane flight is 0.5 millirems (mrem) per hour in the air; from a chest x-ray, 6 mrem; and from living at an altitude of one mile, about 50 mrem/year.[14] **Table 1** shows various doses and their health consequences or regulatory limits.

[13] National Council on Radiation Protection and Measurement, "Ionizing Radiation Exposure of the Population of the United States," report no. 160, 2009.

[14] American Nuclear Society, "Radiation Dose Chart," http://www.ans.org/pi/resources/dosechart/. This interactive chart permits the user to adjust values to find an approximation of his or her total annual dose.

Table 1. Radiation Dose Levels

Dose, mSv	Dose, rem	Source number	Comments
1/yr	0.1/yr	(2)	NRC requires its licensees to "limit maximum radiation exposure to individual members of the public" to this level.
6.2/yr	0.62/yr	(1)	Average U.S. individual's total effective radiation dose in 2006.
20	2	(7)	Federal Emergency Management Agency and Environmental Protection Agency recommend relocating the public from an area if the expected dose in the first year after a radiological incident is above this level.
50/yr	5/yr	(2)	NRC requires its licensees to "limit occupational radiation exposure to adults working with radioactive materials" to this level.
100	10	(6)	A National Research Council committee defines "low dose" of certain types of ionizing radiation, such as gamma rays, as this level or below.
0-250	0-25	(3)	For an "acute" (i.e., received over a short time) whole-body external dose of ionizing radiation, "No detectable clinical effects; small increase in risk of delayed cancer and genetic effects."
250	25	(4)	Japan raised the permitted dose for emergency workers at the Daiichi NPP from 100 mSv/10 rem to this level.
500	50	(5)	For an acute whole-body external dose of ionizing radiation,, "blood count changes."
1,000-2,000	100-200	(3)	For an acute whole-body external dose of ionizing radiation, "Minimal symptoms; nausea and fatigue with possible vomiting; reduction in [certain white blood cells], with delayed recovery."
2,000-3,000	200-300	(3)	For an acute whole-body external dose of ionizing radiation, "Nausea and vomiting on first day; following latent period of up to 2 weeks, symptoms (loss of appetite and general malaise) appear but are not severe; recovery likely in about 3 months unless complicated by previous poor health."
3,200-3,600	320-360	(5)	Half the population exposed to an acute whole-body external dose of ionizing radiation will die within 60 days despite receiving minimal supportive care.
3,500-5,000	350-500	(2)	NRC believes that half the population receiving this dose in a few hours or less would die within 30 days.
8,000	800	(5)	100% mortality, despite best available treatment, for people receiving this external dose of whole-body ionizing radiation.

Source: (1) National Council on Radiation Protection and Measurement, "Ionizing Radiation Exposure of the Population of the United States," report no. 160, 2009, p. 11. (2) U.S. Nuclear Regulatory Commission. "Fact Sheet on Biological Effects of Radiation," January 2011, http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/bio-effects-radiation.html, and 10 CFR 20. (3) Dade Moeller, *Environmental Health*, revised edition, Cambridge, Harvard University Press, 1997, p. 250. (4) Keith Bradsher and Hiroko Tabuchi, "50 Workers Bravely Stay at Troubled Japan Reactors," *New York Times*, March 16, 2011. (5) Princeton University, Environmental Health and Safety. "Open Source Radiation Safety Training, Module 3: Biological Effects," http://web.princeton.edu/sites/ehs/osradtraining/biologicaleffects/page.htm, adapted from National Council on Radiation Protection and Measurements, Report No. 98, "Guidance on Radiation Received in Space Activities," Bethesda, MD, 1989. (6) National Research Council, Committee to Assess Health Risks from Exposure to Low Levels of Ionizing Radiation, "Health Risks from Exposure to Low Levels of Ionizing Radiation," BEIR [Biological Effects of Ionizing Radiation] VII Phase 2, p. 2, http://www.nap.edu/openbook.php?record_id=11340&page=1 and click on PDF Summary. (7) U.S. Environmental Protection Agency. Office of Radiation Programs. *Manual of Protective Action Guides and Protective Actions for Nuclear Incidents*, revised 1991 (second printing, May 1992), p. 4-4, http://www.epa.gov/radiation/docs/er/400-r-92-001.pdf, and Federal Emergency Management Agency, "Planning Guidance for Protection and Recovery Following Radiological Dispersal Device (RDD) and Improvised Nuclear Device (IND) Incidents," 73 *Federal Register* 45034, August 1, 2008.

External v. Internal Exposure: Effective Dose

The health risks of ionizing radiation can occur as a result of both external and internal exposure. External exposure is almost exclusively from radioactive material that emits gamma radiation, which is very penetrating and, at higher energies, can only be stopped by a thick layer of lead or concrete. External sources of gamma radiation produce a whole-body exposure. Importantly, the level of exposure to gamma radiation falls off sharply with distance from the source. Cesium-137 (^{137}Cs), which has a half-life of 30 years, is the most common source of gamma radiation from nuclear weapons tests and reactor accidents.

Alpha and beta particles outside the body are typically not a source of external exposure. Alpha particles travel only a few centimeters through the air and cannot penetrate clothing or the outermost dead layer of skin. Beta particles, composed of electrons or positrons, can travel at most several feet through the air and penetrate to the live layer of skin causing burns (as happened to workers at Chernobyl). But they too are blocked by radiation suits.

Internal radiation exposure occurs through the inhalation of airborne radioactive material or the ingestion of contaminated food and drink. The potential for harm depends on the type and quantities of radioactive material taken in and the length of time they remain in the body. As already noted, isotopes that emit alpha particles present a greater hazard than those that emit beta particles and gamma radiation. In addition, the fate of the radioactive material depends on its chemical identity. For example, Strontium-90 (^{90}Sr), which is chemically similar to calcium and emits beta particles, accumulates in bone and can cause leukemia and bone cancer.

Iodine-131 (^{131}I), ~~another~~ beta emitter, tends to accumulate in the thyroid gland, where it is used in the synthesis of thyroid hormones. The beta ~~emissions~~ radiation from the radioactive iodine damage the surrounding cells and increase the risk of non-malignant thyroid disease and thyroid cancer. Iodine-131 from radioactive fallout accumulates on grass and leafy crops and becomes concentrated in the milk of cows and goats that feed on the contaminated vegetation. Children who drink the contaminated milk are especially at risk because they are still growing and their thyroid glands are very active. However, Iodine-131 has a half-life of ~~only~~ 8 days, so it decays relatively quickly on the ground and in the ~~food chain~~ body.

Iodine-131 posed the most important health risk following the accident at the Chernobyl nuclear power plant in 1986. According to the International Atomic Energy Agency:

> The main consequence of the Chernobyl accident is thyroid cancer in children, some of whom were not yet born at the time of the accident. Following the vapour [sic] explosion and fire at the Chernobyl reactor, radioactive iodine was released and spread in the surrounding area. Despite measures taken, children in southern Belarus and northern Ukraine, were exposed to radiation in the weeks following the accident, particularly by consuming milk from pastured cows and leafy vegetables that had been contaminated with radioactive iodine.[15]

Unlike whole-body external exposures, the exposure from ingested or inhaled radioactive material is often limited to certain parts of the body or even specific organs. Radiation scientists

[15] International Atomic Energy Agency, "Thyroid Cancer Effects in Children," staff report, August 2005, http://www.iaea.org/newscenter/features/chernobyl-15/thyroid.shtml.

are able to calculate a whole-body equivalent dose, or *effective dose*, for partial-body exposures. These amounts can be summed with external exposure to calculate a total dose.

Acute Health Effects v. Long-Term Cancer Risk

The health effects of ionizing radiation exposure depend on the total dose and dose rate. Radiation health experts distinguish between (1) acute, or short-term, effects such as radiation sickness that are associated with relatively high doses over a short period; and (2) long-term effects such as increased lifetime cancer risk that result from chronic exposure to low-levels of radiation. Short-term health effects are typically seen in workers and others in close proximity to nuclear weapons tests and accidents, while the long-term cancer risks apply to the general population. Scientists calculate the cancer risk from radiation exposure using data from epidemiological and other studies, such as those following the health outcomes of the Japanese atomic bomb survivors. According to the International Commission on Radiological Protection (ICRP), the lifetime risk of contracting a fatal cancer from chronic exposure to low-level radiation exposure is 0.05 per sievert, or 1 in 20 per sievert (i.e., 1 in 2,000 per rem). The ICRP and NCRP both recommend an annual exposure limit of 1 mSv (100 mrem) for members of the general population. An individual that received that much annual exposure over a 70-year lifetime (a total of 70 mSv, or 7 rem) would, as a result, have an increased risk of cancer death of approximately 1 in 300.

Table 1 summarizes the health effects of exposure to various acute doses of ionizing radiation. For comparison, the table also includes the current exposure standards for the general public and workers, and the average background radiation exposure in the United States.

Potassium Iodide

uptake

There is considerable interest in potassium iodide (also referred to by its chemical formula, KI) tablets to protect against thyroid cancer. These tablets contain non-radioactive iodine-127, the same type used in iodized table salt. They saturate the thyroid with iodine, preventing it from absorbing more iodine. These tablets, taken shortly *before* exposure to iodine-131, offer protection from thyroid ~~cancer.~~ The protection is of limited duration, however, and potassium iodide protects only the thyroid only against radioactive iodine. It does not protect against any other radioactive material or against radiation in general. Nor is there value in taking potassium iodide as a precautionary measure unless iodine-131 is expected to be present. As the next section of this report discusses, the amount of radioactive material that has reached the United States from the Japanese nuclear reactor accident is minuscule. Accordingly, the website of the Centers for Disease Control and Prevention, accessed on March 22, said, "At this time, CDC does not recommend that people in the United States take KI or iodine supplements in response to the nuclear power plant explosions in Japan. You should only take KI on the advice of emergency management officials, public health officials, or your doctor. There are health risks associated with taking KI."[16] Further, "Some general side effects caused by KI may include intestinal upset, allergic reactions (possibly severe), rashes, and inflammation of the salivary glands."[17]

[16] U.S. Department of Health and Human Services. Centers for Disease Control and Prevention. "Emergency Preparedness and Response: Radiation and Potassium Iodide (KI)," http://www.bt.cdc.gov/radiation/japan/ki.asp.

[17] U.S. Department of Health and Human Services. Centers for Disease Control and Prevention. "Emergency Preparedness and Response: Potassium Iodide (KI)," http://emergency.cdc.gov/radiation/ki.asp#med.

weak in statistically power.

The Japanese Situation

~~Understanding dose and its health effects are crucial for making sense of the Japanese situation.~~ The (U.S.) Committee to Assess Health Risks from Exposure to Low Levels of Ionizing Radiation of the National Research Council reported on the health risks from a certain type of radiation that includes gamma rays and x-rays. It considered doses below ~~about~~ 100 mSv (10 rem) to be ~~low doses~~. The committee found that many factors "make it difficult to characterize the effects of ionizing radiation ~~at low levels~~," and that "at doses less than 40 times the average yearly background exposure (100 mSv), statistical limitations make it difficult to evaluate cancer risk in humans." To develop an estimate of risk, the committee constructed a "lifetime risk model [that] predicts that approximately 1 person in 100 would be expected to develop cancer (solid cancer or leukemia) from a dose of 0.1 Sv [10 rem] above background." For comparison, about 42 percent of the population will be diagnosed with cancer in their lifetimes.[18] At Fukushima Daiichi NPP,

> The workers are being asked to make escalating — and perhaps existential — sacrifices that so far are being only implicitly acknowledged: Japan's Health Ministry said Tuesday that it was raising the legal limit on the amount of radiation exposure to which each worker could be exposed, to 250 millisieverts from 100 millisieverts, five times the maximum exposure permitted for nuclear plant workers in the United States.
>
> The change means that workers can now remain on site longer, the ministry said. "It would be unthinkable to raise it further than that, considering the health of the workers," the health minister, Yoko Komiyama, said at a news conference. [19]

below 100mSv

An acute dose of 250 mSv (25 rem) is the upper threshold at which dose is unlikely to cause noticeable health effects, but it increases the risk of cancer. Based on the National Research Council report, 25 of 1,000 people would be expected to develop solid cancers or leukemia as a result of receiving this dose. Workers exposed to this dose will probably not be allowed to be exposed to additional radiation above background for at least a year to give their bodies time to repair cell damage.

Beyond the Fukushima Daiichi NPP, the external doses reported fall far below the low-dose threshold of the U.S. Nuclear Regulatory Commission (NRC). Japan's Ministry of Education, Culture, Sports, Science and Technology reported dose readings from 80 monitoring stations between 25 and 60 km from the Fukushima Daiichi NPP.[20] On March 20, almost all the readings were less than 15 microsieverts per hour. (One millisievert = 1,000 microsieverts; 1 microsievert = 0.1 millirem.) At a rate of 15 microsieverts per hour, it would take 278 days to accumulate a dose of 10 rem. At the highest rate reported, 110 microsieverts per hour, it would take 38 days to accumulate that dose. Staying inside an uncontaminated building would reduce exposure considerably, and short-lived radionuclides like iodine-131 (half-life, 8 days) would decay significantly during a month or more, sharply reducing the dose they produce. On the other hand,

[18] National Research Council. Committee to Assess Health Risks from Exposure to Low Levels of Ionizing Radiation. *Health Risks from Exposure to Low Levels of Ionizing Radiation,* Washington, National Academies Press, 2006, pp. 1, 2, 7, 8, http://www.nap.edu/openbook.php?record_id=11340&page=1, and click on "pdf summary."

[19] Keith Bradsher and Hiroko Tabuchi, "50 Workers Bravely Stay at Troubled Japan Reactors," *New York Times,* March 16, 2011.

[20] Japan. Ministry of Education, Sports, Culture, Science and Technology (MEXT), "Readings at Monitoring Post out of 20 Km Zone of Fukushima Dai-ichi NPP [Nuclear Power Plant]," news release, as of 19:00 March 20, 2011, http://www.mext.go.jp/component/english/__icsFiles/afieldfile/2011/03/20/1303972_2019.pdf.

a larger release of radionuclides would be expected to increase dose, and cesium-137 (half-life, 30 years) decays much more slowly than iodine-131, so it would contribute to dose for many decades.

Given the increase in thyroid cancer as a result of the Chernobyl disaster, a major concern in Japan is minimizing the risk of thyroid cancer. This is especially important for children. At Chernobyl, as noted earlier, ingestion of radioactive iodine-131 resulted mainly from drinking milk from cows that ate contaminated feed, and from eating leafy greens. Accordingly, Japanese authorities have tested spinach, other vegetables, and milk for iodine-131, and found elevated levels. In response, on March 23 Prime Minister Naoto Kan restricted the distribution and consumption of spinach, cabbage, broccoli, and other vegetables in Fukushima Prefecture, and restricted the distribution of fresh raw milk and parsley produced in Ibaraki Prefecture.[21] In addition, authorities have reportedly found traces of radioactive iodine in drinking water in Tokyo. On March 23,

> Ei Yoshida, head of water purification for the Tokyo water department, said ... that infants in Tokyo and surrounding areas should not drink tap water. He said iodine-131 had been detected in water samples at a level of 210 becquerels per liter, about a quart. The recommended limit for infants is 100 becquerels per liter. For adults, the recommended limit is 300 becquerels. ... The Health Ministry said in a statement that it was unlikely that there would be negative consequences to infants who did drink the water, but that it should be avoided if possible and not be used to make infant formula.[22]

Could Harmful Levels of Fallout Reach the United States?[23]

To monitor radiation in the United States, the Environmental Protection Agency (EPA) operates RadNet, which "is a national network of monitoring stations that regularly collect air, precipitation, drinking water, and milk samples for analysis of radioactivity. The RadNet network, which has stations in each State, has been used to track environmental releases of radioactivity from nuclear weapons tests and nuclear accidents."[24] EPA has an online map of these stations.[25]

Whether harmful levels of radioactive material from the accident reach the United States depends on many factors.

- Particle size: Tiny particles are more readily carried by the wind and can travel farther than large particles, which fall to Earth more rapidly.
- Wind patterns.

[21] Japan. Policy Planning and Communication Division. Inspection and Safety Division. Department of Food Safety. "Restriction of Distribution and/or Consumption of Foods Concerned in Fukushima and Ibaraki Prefectures (in Relation to the Accident at Fukushima Nuclear Power Plant)," March 23, 2011, http://www.mhlw.go.jp/stf/houdou/2r98520000015wun-att/2r98520000015xym.pdf.

[22] David Jolly and Denise Grady, "Tokyo Says Radiation in Water Puts Infants at Risk," *New York Times*, March 23, 2010.

[23] This section was written by Jonathan Medalia, Specialist in Nuclear Weapons Policy, Foreign Affairs, Defense, and Trade Division.

[24] U.S. Environmental Protection Agency. "RadNet—Tracking Environmental Radiation Nationwide," http://www.epa.gov/narel/radnet/.

[25] U.S. Environmental Protection Agency. "RadNet Map View," https://cdxnode64.epa.gov/radnet-public/showMap.do.

- Amount of material released: The more material released, the more likely some of it is to travel long distances.
- Melt vs. burn: If nuclear fuel rods (fresh or spent) melt and form a pool of very hot, highly radioactive liquid, that liquid might be contained by a containment structure. If it melts through that structure, it might contaminate groundwater. If the fuel rods burn, the fire would loft radioactive material into the air. The larger and hotter the fire, and the longer it burns, the more material would be injected into the air.
- Travel time: The longer radioactive material is in the air, the more of it will decay. This is especially important for radionuclides with short half-lives.
- Distance: The farther radioactive material travels, the greater the volume of air in which the material disperses, diluting it.
- Rain and snow: Precipitation washes some particles out of the air.

The first four of these factors depend on circumstances; the other three would reduce the amount of material reaching the United States under any circumstances.

The reactor accident does not appear to pose a threat to the United States. On March 13, the Nuclear Regulatory Commission stated, "Given the thousands of miles between the two countries [United States and Japan], Hawaii, Alaska, the U.S. Territories and the U.S. West Coast are not expected to experience any harmful levels of radioactivity."[26] On March 18, EPA and the Department of Energy stated that a monitoring station in Sacramento "today ... detected minuscule quantities of iodine isotopes and other radioactive particles that pose no health concern at the detected levels," and that between March 16 and 17, a detector in Washington state detected "trace amounts of Xenon-133, which is a radioactive noble gas produced during nuclear fission that poses no concern at the detected level."[27] In a briefing to the Nuclear Regulatory Commission on March 21, Bill Borchardt, NRC Executive Director for Operations, said, "natural background from things like ... rocks, sun, buildings, is 100,000 times more than any level that has been detected to date. We feel confident in our conclusion that there is no reason for concern in the United States regarding radioactive releases from Japan."[28] A press report of March 22 stated that equipment in Charlottesville, VA, detected radiation from the reactor accident, but that "health experts said that the plume's radiation had been diluted enormously in its journey of thousands of miles and that—at least for now, with concentrations so low—its presence will have no health consequences in the United States."[29]

It is useful to put these doses in perspective. Using the figure that natural sources provide 100,000 times the dose recorded in California and Washington State, it is possible to calculate a rough approximation of the dose from the Japanese accident, using the improbable assumption

[26] U.S. Nuclear Regulatory Commission. "NRC Sees No Radiation at Harmful Levels Reaching U.S. from Damaged Japanese Nuclear Power Plants," press release no. 11-046, March 13, 2011, http://pbadupws.nrc.gov/docs/ML1107/ML110720002.pdf.

[27] U.S. Department of Energy and Environmental Protection Agency. "Joint EPA/DOE Statement: Radiation Monitors Confirm That No Radiation Levels of Concern Have Reached the United States," press release, March 18, 2011, http://www.energy.gov/news/10190.htm.

[28] U.S. Nuclear Regulatory Commission. "Briefing on NRC Response to Recent Nuclear Events in Japan," public meeting, March 21, 2011, p. 13, http://www.nrc.gov/reading-rm/doc-collections/commission/tr/2011/20110321.pdf.

[29] William Broad, "Radiation over U.S. Is Harmless, Officials Say," *New York Times*, March 22, 2011, p. 6.

that the dose persists at the detected rate for an entire year. As noted earlier, the National Council on Radiation Protection and Measurement estimates that the average American receives a dose of 310 mrem/year from natural sources. NRC requires its licensees to "limit maximum radiation exposure to individual members of the public" to 100 mrem/year. One one hundred thousandth of 310 mrem/year is a dose of 0.00310 mrem/year. At that rate, it would take 32,258 years to accumulate a dose of 100 mrem; over a 70-year lifespan, the cumulative dose at this rate would amount to 0.22 mrem.

Author Contact Information

Jonathan Medalia
Specialist in Nuclear Weapons Policy
jmedalia@crs.loc.gov, 7-7632

From: Droggitis, Spiros
Sent: Thursday, March 24, 2011 6:30 AM
To: LIA07 Hoc
Subject: Re: 0600 EDT 3242011 USNRC Japan Plant Condition Update

Thanks

From: LIA07 Hoc
To: LIA12 Hoc; Droggitis, Spiros
Cc: LIA07 Hoc
Sent: Thu Mar 24 06:28:35 2011
Subject: 0600 EDT 3242011 USNRC Japan Plant Condition Update

Please find attached the 0600 3/24/11 NRC Japan Plant Condition Update.

Please let me know if you have any questions or concerns.

Thank you,

-Jim

Jim Anderson
Office of Nuclear Security and Incident Response
US Nuclear Regulatory Commission
LIA07.HOC@nrc.gov (Operations Center)
James.anderson@nrc.gov

PPP/463

From: Droggitis, Spiros
Sent: Thursday, March 24, 2011 9:18 AM
To: Sheron, Brian
Cc: Riley (OCA), Timothy
Subject: FW: 0600 EDT 3242011 USNRC Japan Plant Condition Update
Attachments: USNRC Japan Plant Condition Updates March24 0600EDT.pdf

Brian: This status was sent to the Hill contacts this morning, so maybe you should just focus on what has changed this afternoon rather than the detailed status. Thanks, Spiros

---

From: LIA07 Hoc
Sent: Thursday, March 24, 2011 6:29 AM
To: LIA12 Hoc; Droggitis, Spiros
Cc: LIA07 Hoc
Subject: 0600 EDT 3242011 USNRC Japan Plant Condition Update

Please find attached the 0600 3/24/11 NRC Japan Plant Condition Update.

Please let me know if you have any questions or concerns.

Thank you,

-Jim

Jim Anderson
Office of Nuclear Security and Incident Response
US Nuclear Regulatory Commission
LIA07.HOC@nrc.gov (Operations Center)
James.anderson@nrc.gov

PPP/464

From:	Evans, Michele
To:	Leeds, Eric
Subject:	FW: Japan assistance
Date:	Thursday, March 24, 2011 9:53:16 PM

From: Cohen, Miriam
Sent: Thursday, March 24, 2011 3:02 PM
To: Evans, Michele
Cc: Borchardt, Bill; Wiggins, Jim
Subject: Japan assistance

Hello there. Just wanted to let you know that I have spoken with Glenn Tracy and he wanted you to know that he is available, if needed, to travel to Japan, to support our efforts there.

Thanks.

Miriam

PPP/465

From: Grobe, Jack
To: Borchardt, Bill; Virgilio, Martin; Weber, Michael; Leeds, Eric; Boger, Bruce; Holahan, Gary; Miller, Charles; fednuc@aol.com
Subject: FW: FYI, just in case if you haven"t seen Fw: NYT op-ed It Could Happen Here by By FRANK N. VON HIPPEL
Date: Thursday, March 24, 2011 2:39:24 PM

Got this from a friend of mine at USC. Worth reading and pondering.

From: Najmedin Meshkati [mailto:meshkati@usc.edu]
Sent: Thursday, March 24, 2011 2:33 PM
To: Grobe, Jack
Subject: FYI, just in case if you haven't seen Fw: NYT op-ed It Could Happen Here by By FRANK N. VON HIPPEL

----- Forwarded Message ----

March 23, 2011 http://www.nytimes.com/2011/03/24/opinion/24Von-Hippel.html?src=twrhp

It Could Happen Here

By FRANK N. VON HIPPEL

IT will be years before we know the full consequences of the disaster at the Fukushima Daiichi nuclear power plant in Japan. But the public attention raised by the problems there provides an opportunity to rethink nuclear-power policy in the United States and the rest of the world — and reduce the dangers of a similar disaster happening elsewhere.

From one perspective, nuclear power has been remarkably safe. The 1986 Chernobyl accident will ultimately kill about 10,000 people, mostly from cancer. Coal plants are much deadlier: the fine-particulate air pollution they produce kills about 10,000 people each year in the United States alone.

Of course, for most people this kind of accounting is beside the point. Their horror over even the possibility of a meltdown means that the nuclear-power industry needs constant and aggressive regulation for the public to allow it to stay in business.

Yet despite the 1979 accident at the Three Mile Island nuclear plant in Pennsylvania, the Nuclear Regulatory Commission has often been too timid in ensuring that America's 104 commercial reactors are operated safely. Nuclear power is a textbook example of the problem of "regulatory capture" — in which an industry gains control of an agency meant to regulate it. Regulatory capture can be countered only by vigorous public scrutiny and Congressional oversight, but in the 32 years since Three Mile Island, interest in nuclear regulation has declined precipitously.

PPP/466

In 2002, after the commission retreated from demanding an early inspection of a reactor, Davis-Besse in Ohio, that it suspected was operating in a dangerous condition, its own inspector general concluded that it "appears to have informally established an unreasonably high burden of requiring absolute proof of a safety problem, versus lack of a reasonable assurance of maintaining public health and safety."

Even before Three Mile Island, a group of nuclear engineers had proposed that filtered vents be attached to buildings around reactors, which are intended to contain the gases released from overheated fuel. If the pressure inside these containment buildings increased dangerously — as has happened repeatedly at Fukushima — the vents would release these gases after the filters greatly reduced their radioactivity.

France and Germany installed such filters in their plants, but the Nuclear Regulatory Commission declined to require them. Given the influence of America's example, had the commission demanded the addition of filtered vents, they would likely have been required worldwide, including in Japan.

More recently, independent analysts have argued, based on risk analyses done for the commission, it is dangerous for the United States to pack five times more spent fuel into reactor cooling pools than they were designed to hold, and that 80 percent of that spent fuel is cool enough to be stored safely elsewhere. It would also be more expensive, however, and the Nuclear Regulatory Commission followed the nuclear utilities' lead and rejected the proposal. The commission has even fought relentlessly for decades against proposals — and more recently a Congressional requirement — to distribute potassium iodide pills beyond the 10-mile emergency zones around American reactors, arguing that the probability of a large release of radioactivity was too low to justify the expense. And yet the American Embassy in Tokyo is handing out potassium iodide pills to Americans 140 miles from the Fukushima plant.

The commission's defenders often argue that it must be cautious because increased costs from safety requirements could kill the nuclear power industry. But the cost of generating electricity from existing plants is actually low: the construction expenses have been paid off and running them is relatively cheap. Requiring the operators of plants to install new safety systems would not result in them being shut down.

Therefore, perhaps the most important thing to do in light of the Fukushima disaster is to change the industry-regulator relationship. It has become customary for administrations not to nominate, and the Senate not to confirm, commissioners whom the industry regards as "anti-nuclear" — which includes anyone who has expressed any criticism whatsoever of industry practices. The commission has an excellent staff; what it needs is more aggressive political leadership.....

Frank N. von Hippel, a nuclear physicist, is a professor of public and international affairs at Princeton and co-chairman of the International Panel on Fissile Materials. From 1993 to 1994 he was responsible for national security issues in the White House Office of Science and Technology Policy.

From: RMTPACTSU_ELNRC <RMTPACTSU_ELNRC@ofda.gov>
Sent: Thursday, March 24, 2011 1:57 PM
To: LIA02 Hoc; LIA03 Hoc
Subject: FW: Travel Reservation March 27 for TONY TSUYOSHI NAKANISHI

FYI

From: rmtpactsu_ac@ofda.gov [mailto:rmtpactsu_ac@ofda.gov]
Sent: Thursday, March 24, 2011 1:52 PM
To: Nakanishi, Tony; RMTPACTSU_ELNRC; Johnson, Natalya
Subject: Travel Reservation March 27 for TONY TSUYOSHI NAKANISHI

TONY TSUYOSHI NAKANISHI has asked us to deliver their itinerary information to you. You can click here to view their travel information using Sabre® Virtually There®

PPP\467

From: LIA10 Hoc
Sent: Thursday, March 24, 2011 12:22 AM
To: LIA09 Hoc
Subject: FW: METI press release index, NISA website

From: LIA10 Hoc
Sent: Wednesday, March 23, 2011 10:01 AM
To: LIA10 Hoc
Subject: RE: METI press release index, NISA website

English press releases are posted here:
http://www.nisa.meti.go.jp/english/index.html

From: LIA10 Hoc
Sent: Tuesday, March 22, 2011 2:51 PM
To: LIA03 Hoc; LIA02 Hoc; LIA10 Hoc
Subject: METI press release index, NISA website

The following two sites are where I have found some Japanese documents to translate. Paul Hersey

http://www.meti.go.jp/press/index.html

http://kinkyu.nisa.go.jp/

PPP/468

From: Turtil, Richard
Sent: Thursday, March 24, 2011 10:46 AM
To: LIA11 Hoc
Cc: LIA04 Hoc; OST05 Hoc
Subject: FW: Question from Member of Public: CBP criteria for release of materials/products into U.S.

Ted, please keep LIA04 and Ost05 on direct and/or cc. Thanks.

From: LIA11 Hoc
Sent: Thursday, March 24, 2011 10:38 AM
To: NOC.SWO.Restricted
Cc: Turtil, Richard; LIA01 Hoc
Subject: FW: Question from Member of Public: CBP criteria for release of materials/products into U.S.

This came in from one of our State Liaison Officers. We're looking for any guidance we can provide on this kinds of questions.

Thanks,

Ted Smith
Federal Liaison Desk

From: Turtil, Richard
Sent: Wednesday, March 23, 2011 5:08 PM
To: LIA11 Hoc; LIA01 Hoc
Cc: LIA08 Hoc; LIA06 Hoc; Harrington, Holly; McIntyre, David; Lynch, James; LIA04 Hoc; OST05 Hoc
Subject: Question from Member of Public: CBP criteria for release of materials/products into U.S.

Federal Liaison in Ops Center:

A member of the public in Illinois called me at my desk. He inquired:

1) At what level do car parts, mechanical items go back to/get returned to Japan and/or are quarantined; and
2) What is the process for screening.

I indicated a CBP communication was released yesterday on this topic yesterday; he's familiar with the information but found it lacking.

I informed him that he should contact the Ill Agreement State folks at 217-782-9762 to inquire. I also indicated I'd further dig with our CBP counterparts.

Can the Federal Liaison make contact with CBP liaison personnel to discuss such situations. We believe there will be many more such situations to come. Thanks.

Rich Turtil

PPP\469

From: LIA08 Hoc
Sent: Wednesday, March 23, 2011 5:21 PM
To: Turtil, Richard; LIA11 Hoc; LIA01 Hoc
Cc: LIA06 Hoc; Harrington, Holly; McIntyre, David; Lynch, James; LIA04 Hoc; OST05 Hoc
Subject: RE: Question from Member of Public: CBP criteria for release of materials/products into U.S.

Follow Up Flag: Follow up
Flag Status: Completed

Thanks Rich. Liaison team will take care of this communication with CBP. Jeff Temple

---

From: Turtil, Richard
Sent: Wednesday, March 23, 2011 5:08 PM
To: LIA11 Hoc; LIA01 Hoc
Cc: LIA08 Hoc; LIA06 Hoc; Harrington, Holly; McIntyre, David; Lynch, James; LIA04 Hoc; OST05 Hoc
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Can the Federal Liaison make contact with CBP liaison personnel to discuss such situations. We believe there will be many more such situations to come. Thanks.

Rich Turtil

From: LIA02 Hoc
Sent: Thursday, March 24, 2011 1:50 PM
To: RST01 Hoc; LIA06 Hoc; LIA08 Hoc
Subject: FW: Nikkei article 2011/3/24 14:44

From: LIA10 Hoc
Sent: Thursday, March 24, 2011 1:35 PM
To: LIA02 Hoc; LIA03 Hoc
Subject: Nikkei article 2011/3/24 14:44

Tepco: Unit 2 through 4 SFPs source of white smoke?

Tepco explained on March 24 (PM) regarding the white smoke confirmed at Fukushima Daiichi NPS Units 1-4 that "we hypothesize that the source of the smoke is the spent fuel pools.

As to the black smoke confirmed at the Unit 3 building on March 23, Tepco commented on NISA's statement that there was a possibility that pump lubricant triggered it, saying "indeed it is a possibility and we wish to investigate.

東電、福島第１原発の白煙「２～４号機は燃料プールからか」

2011/3/24 14:44

東京電力は24日午後、今朝から福島第１原子力発電所の１～４号機から白煙が確認されたことに関して、２～４号機については「使用済み燃料プールが煙の発生場所と想定している」と説明した。

３号機の建屋で23日に確認された黒煙について、経済産業省原子力安全・保安院がポンプ潤滑油が引き金となった可能性があると指摘したことに関して「確かに可能性はある。調査したい」と述べた。

PPP/470

From: LIA10 Hoc
Sent: Thursday, March 24, 2011 7:38 AM
To: LIA02 Hoc; LIA03 Hoc
Subject: Nikkei article 2011/3/24 19:32

Fukushima NPS: Urgent Work to restore Unit 3 Pumps, Irradiation Causes Suspension

2011/3/24 19:32

Work continued on March 24 to restore stable cooling functions of reactors and spent fuel pools at Fukushima Daiichi NPS, damaged by the Great East Japan Earthquake. At Unit 3, work progressed toward restoring pump(s) for fresh water, to replace the seawater that has been injected into the reactor and elsewhere. Three workers were irradiated though, causing some work to be suspended. Restoration efforts continue to be one step forward, one step back.

Work continues to restore the "Replenishment Water System" used to cool the reactor and other places with fresh water at Unit 3. As an emergency measure, fire pumps have been used for cooling with seawater, but there are concerns that salt and impurities may adversely impact pumps and other elements. More stable cooling can be achieved if fresh water is used, since it becomes easier to regulate pressures and temperatures within the reactor. Work is being done with care since idling the pumps entails a risk of damaging them.

Lights went on in the central control room of Unit 3 on the night of March 22, leading to hopes that restoration work would begin to make substantial progress, but work was suspended when black smoke rose on the evening of March 23. The black smoke was confirmed stopped by the morning of March 24, and seawater injection to fuel pools resumed. 500 tons of seawater are being injected over a 24-hour period starting at 5:35am on March 24.

Lights came on at the Unit 1 central control room also at 11:30am on March 24. If control room functions are recovered, it will support restoration progress by getting detailed information on reactor status. Unit 1 containment vessel pressure rose for a time when the amount of seawater injected was abruptly increased in a bid to lower the reactor temperature, which had risen, but at present both pressure and temperature are said to have improved.

Work is expected to restore lighting cables to the central control room of Unit 2 beginning on March 25.

On March 24 (PM) workers were irradiated while laying cable at the Unit 3 Turbine Building. Two of the three workers were transported to hospital. This caused a portion of the work to be suspended; the situation remains "one step forward, one step back."

福島原発、３号機ポンプ復旧急ぐ　作業員被曝で作業中断

2011/3/24 19:32

東日本大震災で被災した福島第１原子力発電所では 24 日、原子炉や使用済み核燃料プールの安定的な冷却機能の回復に向けた作業が続いた。３号機ではこれまで原子炉などに注入していた海水に替

PPP/471

えて真水を送るポンプの復旧作業を進めた。ただ作業員３人が被曝（ひばく）して一部の作業が中断するなど、復旧はなお一進一退の状況だ。

３号機では真水で炉心などを冷やす「補給水系」の復旧に向けた作業が続く。これまでは緊急手段として消防用ポンプで海水を入れて冷却していたが、海水は塩分や不純物を含んでいるためにポンプなどに悪影響を及ぼす恐れがある。真水を使うと炉内の圧力や温度が調整しやすくなり、安定的な冷却が可能になる。ポンプが空回りすると破損する危険性もあるため、慎重に作業を進めている。

３号機は 22 日夜に中央制御室の照明が点灯し、復旧作業が本格的に進むと期待されていたが、23 日夕刻に黒煙が発生したことで作業が中断した。24 日朝までに黒煙が止まったことが確認され、燃料プールへの海水注入作業を再開。24 日午前５時 35 分から 24 時間で、500 トンの海水を注入する

１号機でも 24 日午前 11 時半に中央制御室の照明が点灯した。制御室の機能が回復できれば計器などで原子炉の状況を詳しく把握できるため復旧作業の進捗を後押しできる。１号機では上昇した炉内の温度を下げるために海水の注入量を急速に増やしたところ格納容器の圧力が一時的に上昇したが現在は圧力も温度も落ち着いた状況にあるという。

２号機でも 25 日以降、中央制御室の照明ケーブルを復旧させる作業が進む見込み。

被曝した作業員は 24 日午後、３号機のタービン建屋でケーブル敷設作業をしていた。３人のうち２人が病院に搬送された。これにより一部作業が中断するなど、事態はなお一進一退の状況を続けている。

From: ET05 Hoc
Sent: Thursday, March 24, 2011 11:09 PM
To: McGinty, Tim
Subject: FW: Doc1 (2).docx
Attachments: Doc1 (2).docx

From: Zimmerman, Roy
Sent: Thursday, March 24, 2011 10:11 PM
To: ET05 Hoc
Subject: Doc1 (2).docx

PPP/472

Plant status little changed. All reactors are receiving cooling with seawater presently with exception of unit I which is using fresh water. Tepco working to get freshwater Unit 2 & 3. Unit 1.receiving power from unit 2 according to Tepco Fuel may have slumped to the bottom of the core.....slow heatup of its SFP

Unit 1&2 electrical power has been restored and electric water pump systems are being tested. in unit 2..... seawater injection to the rx core and SFP

According to METI, technicians are working to attach fire hoses to the Unit 1 spent fuel pool built- in coolant pipes and setting up a separate pump to circulate fresh water inside the reactor core.

IAEA assessment indicates AC power connected in units 1,2 and 4 and instrumentation continues to be recovered. Workers returning to units 3 and 4 after black smoke emissions from unit 3 had ceased.

in-country team has struck up a relationship with a NISA rep who provided him a variety of strip chart recorders, data points, etc. being translated now. Extremely sensitive information!! Tight hold

NRC,DOE, NAVAL REACTORS, NISA, TEPCO, JAIF(JAPAN ATOMIC INDUSTRIAL FORUM), GE-HITACHI, INPO, BETTIS, KAPL.....all spoke on a conference call and agreed on an assessment of each reactor, and provided recommendations for the Japanese to consider. Recommendations include: 1) switching to freshwater injection asap and maximizing flow to the core, 2) attempting to inert primary containment with nitrogen prior to venting and use of core spray. 3) maintain venting capability and pressure suppression spray capability.4) maintain SFP level if possible 5) flood up primary containment to cover the lower portion of the reactor vessel up to the level of top of active fuel.

Lights are back on in the control rooms for Units 1 & 3

Received another thermal imagery of the units.....working with the intel community to try to get the photos delasssified so we can get GE to review the thermal images. Still working this evening to send to GE.

9:00pm call today with a Mr. Piccuto to support Admiral Willard,head of PACOM to assist with moving the fresh water barge. He is the foreign policy advisor and works for State. They would appreciate a senior level manager as soon as possible to serve a function similar to what Chuck is doing for Admiral Roos. Short turnaround.

NRR planning to issue a Reg Issue Summary on Monday to request licensees to send radiation monitoring station data to the NRC and we will provide the info to EPA.

Your talk with the Japanese ambassador in DC ...we are putting together talking points to make our working relationship as effective as possible.

DOE preparing another AMS flight.....don't know the exact date

20mr /hr at the main gate according to METI (ministry of industry of trade)

PMT identified need to update the source term for modeling. A Melcor transpacific model needs to be worked, shows about 4.5rem iodine to children. Interagency agreed on a model last night. We have requested NARAC to make changes showing 70% core damage vice the 33% damage assumed previously. We are trying to ensure that the overconservativism errors in the 4.5 Rem does not get issued.

Staff will lead a logistical team in Japan to help US agencies and industry with support.

Inpo confirmed they have one million KI pills from ANBEX.

PMT contiiuing to develop reentry plans for short term reentry for retrievel of personal effects.

Bringing back casto and monninger possibly this weekend and identifying one addtl manager to backfill.

From: LIA04 Hoc
Sent: Thursday, March 24, 2011 8:10 PM
To: Evans, Lynn (CDC/ONDIEH/NCEH)
Subject: RE: CBP/CDC Passenger/Baggage Guidance Docs Task 8057
Attachments: image001.jpg

Thanks. I was not sure so I thought I better check. Not long after I sent the email to you we sat in on the HHS and your representatives stressed that it was Federal Family Only.

Amanda Noonan
State Liaison – Liaison Team
Incident Response Center

From: Evans, Lynn (CDC/ONDIEH/NCEH) [mailto:gfn6@cdc.gov]
Sent: Thursday, March 24, 2011 8:07 PM
To: LIA04 Hoc
Cc: 2011 Japan Earthquake (CDC); CDC IMS Scientific Response Section Chief -2; CDC IMS Scientific Response Section Task Tracker -2; CDC IMS JIC Triage -2; CDC IMS JIC Lead -2
Subject: RE: CBP/CDC Passenger/Baggage Guidance Docs Task 8057

Attention: Amanda Noonan
State Liaison – Liaison Team
Incident Response Center

Please note the subject documents must not be shared with the public; however they can be shared with state government partners. Information for the public will be posted on CDC Travelers' Health web site.

Thanks!
Lynn Evans

From: CDC IMS JIC Lead -2
Sent: Thursday, March 24, 2011 6:42 PM
To: Evans, Lynn (CDC/ONDIEH/NCEH)
Cc: 2011 Japan Earthquake (CDC); CDC IMS Scientific Response Section Chief -2; CDC IMS Scientific Response Section Task Tracker -2; 'lia04.hoc@nrc.gov'; CDC IMS JIC Lead -2; CDC IMS JIC Triage -2
Subject: RE: CBP/CDC Passenger/Baggage Guidance Docs Task 8057
Importance: High

Lynn:

These documents should *not* be shared with the public but may be shared with state government partners. CDC will post information for the public on this topic on the Travelers' Health web site. Let us know if you have questions. Thanks!

Joanne Cox
CDC JIC Lead/Japan EQ Response
(Email) eocjiclead2@cdc.gov

PPP/473

From: Evans, Lynn (CDC/ONDIEH/NCEH)
Sent: Thursday, March 24, 2011 4:42 PM
To: CDC IMS JIC Lead -2
Cc: 2011 Japan Earthquake (CDC); CDC IMS Scientific Response Section Chief -2; CDC IMS Scientific Response Section Task Tracker -2; Evans, Lynn (CDC/ONDIEH/NCEH); 'lia04.hoc@nrc.gov'
Subject: FW: CBP/CDC Passenger/Baggage Guidance Docs Task 8057

JIC,

The NRC is asking if the attached documents can be released to the State agencies and to the public.

Please respond to lia04.hoc@nrc.gov with the answer to this question.

Thanks for your help!
Lynn Evans

From: LIA04 Hoc [mailto:LIA04.Hoc@nrc.gov]
Sent: Thursday, March 24, 2011 3:18 PM
To: Evans, Lynn (CDC/ONDIEH/NCEH)
Cc: Turtil, Richard
Subject: RE: CBP/CDC Passenger/Baggage Guidance Docs Task 8057

Can this be released to the public and/or just the State Agencies?

Amanda Noonan
State Liaison – Liaison Team
Incident Response Center

From: Evans, Lynn (CDC/ONDIEH/NCEH) [mailto:gfn6@cdc.gov]
Sent: Thursday, March 24, 2011 2:07 PM
To: 2011 Japan Earthquake (CDC); CDC IMS Scientific Response Section Chief -2; CDC IMS Scientific Response Section Task Tracker -2; Dixon, John E. (CDC/ONDIEH/NCEH); Brooks, Michael (ATSDR/DHAC/SRAB)
Cc: 'hhs.soc@hhs.gov'; HOO Hoc; 'eoc.epahq@epa.gov'; LIA01 Hoc; LIA11 Hoc; LIA04 Hoc; OST05 Hoc; LIA11 Hoc; Turtil, Richard
Subject: RE: CBP/CDC Passenger/Baggage Guidance Docs Task 8057

Attached are documents that make up the Traveler Plan Protocol and Procedures for screening travelers leaving Japan for possible radioactive contamination. These documents were prepared by an interagency workgroup (not the Advisory Team) to make sure it was appropriate and addressed many concerns.

The Advisory Team is working on another document which addresses contamination on cargo and miscellaneous items coming from Japan. This document is still being developed.

Please contact me if you need more information.

Thanks!
Lynn Evans

D. Lynn Evans, MS
CAPT, USPHS
Centers for Disease Control and Prevention
NCEH/EHHE/Radiation Studies Branch
Mail Stop F58
4770 Buford Highway NE
Atlanta, GA 30341-3717
Phone: (770) 488-3656
Fax: (770) 488-1539
Email: gfn6@cdc.gov

From: EOC Report (CDC)
Sent: Thursday, March 24, 2011 12:03 PM
To: Evans, Lynn (CDC/ONDIEH/NCEH)
Cc: 2011 Japan Earthquake (CDC)
Subject: FW: CBP/CDC Passenger/Baggage Guidance Docs

Fyi;

Lorenzo Moore
CDC EOC Duty Officer
770-488-7100
eocreport@cdc.gov

From: Connally, Daniel (HHS/ASPR/OPEO) **On Behalf Of** OS Secretarys Operations Center
Sent: Thursday, March 24, 2011 11:53 AM
To: EOC Report (CDC)
Cc: OS Secretarys Operations Center; hoo.hoc@nrc.gov; eoc.epahq@epa.gov; Lia01.hoc@nrc.gov; Lia11.hoc@nrc.gov; Lia04.hoc@nrc.gov; Ost05.hoc@nrc.gov; LIA11.Hoc@nrc.gov; Richard.Turtil@nrc.gov
Subject: CBP/CDC Passenger/Baggage Guidance Docs

CDC,

Per the request on the ESF-8 call today, can you please provide NRC HOC and EPA EOC with any guidance for passengers, baggage and other importation guidance; especially those expected to be issued today? Please include in your response all addresses in the CC line of this email.

Very Respectfully,

Daniel Connally
Watch Officer
Secretary's Operation Center
Department of Health and Human Services
200 Independence Avenue, SW
Washington, DC 20201
Email: hhs.soc@hhs.gov
W: 202.619.7800
Fax: 202.619.7870

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From: LIA04 Hoc
Sent: Thursday, March 24, 2011 2:59 PM
To: Turtil, Richard
Subject: FW: CBP/CDC Passenger/Baggage Guidance Docs Task 8057
Attachments: image001.jpg; CBP Flowpath 3_23 Final.pptx; Screening_Script.pdf

Should I forward this to the States now or wait for the second part? That is the part they are waiting forward.

From: Evans, Lynn (CDC/ONDIEH/NCEH) [mailto:gfn6@cdc.gov]
Sent: Thursday, March 24, 2011 2:07 PM
To: 2011 Japan Earthquake (CDC); CDC IMS Scientific Response Section Chief -2; CDC IMS Scientific Response Section Task Tracker -2; Dixon, John E. (CDC/ONDIEH/NCEH); Brooks, Michael (ATSDR/DHAC/SRAB)
Cc: 'hhs.soc@hhs.gov'; HOO Hoc; 'eoc.epahq@epa.gov'; LIA01 Hoc; LIA11 Hoc; LIA04 Hoc; OST05 Hoc; LIA11 Hoc; Turtil, Richard
Subject: RE: CBP/CDC Passenger/Baggage Guidance Docs Task 8057

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Please contact me if you need more information.

Thanks!
Lynn Evans

D. Lynn Evans, MS
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Phone: (770) 488-3656
Fax: (770) 488-1539
Email: gfn6@cdc.gov

From: EOC Report (CDC)
Sent: Thursday, March 24, 2011 12:03 PM
To: Evans, Lynn (CDC/ONDIEH/NCEH)
Cc: 2011 Japan Earthquake (CDC)
Subject: FW: CBP/CDC Passenger/Baggage Guidance Docs

Fyi;

Lorenzo Moore
CDC EOC Duty Officer
770-488-7100
eocreport@cdc.gov

PPP/474

From: Connally, Daniel (HHS/ASPR/OPEO) **On Behalf Of** OS Secretarys Operations Center
Sent: Thursday, March 24, 2011 11:53 AM
To: EOC Report (CDC)
Cc: OS Secretarys Operations Center; hoo.hoc@nrc.gov; eoc.epahq@epa.gov; Lia01.hoc@nrc.gov; Lia11.hoc@nrc.gov; Lia04.hoc@nrc.gov; Ost05.hoc@nrc.gov; LIA11.Hoc@nrc.gov; Richard.Turtil@nrc.gov
Subject: CBP/CDC Passenger/Baggage Guidance Docs

CDC,

Per the request on the ESF-8 call today, can you please provide NRC HOC and EPA EOC with any guidance for passengers, baggage and other importation guidance; especially those expected to be issued today? Please include in your response all addresses in the CC line of this email.

Very Respectfully,

Daniel Connally
Watch Officer
Secretary's Operation Center
Department of Health and Human Services
200 Independence Avenue, SW
Washington, DC 20201
Email: hhs.soc@hhs.gov
W: 202.619.7800
Fax: 202.619.7870

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From: Giitter, Joseph
Sent: Thursday, March 24, 2011 5:33 PM
To: ET05 Hoc
Subject: Doc1.docx
Attachments: Doc1.docx

PPP/475

Questions and Answers from the Chairman:

3/24/11 5:15pm

1. When will NARAC modeling results be provided?
   The PMT recently identified a need to update the source term and the release rate from those that we previously provided to NARAC about 12 hours ago, based on information obtained from the RST and the Japanese officials (core damage in unit 1 is 70% vs previously assumed 33%; 100% containment breach in units 2 and 3 vs previously assumed design containment leakage rate). NRC held a telecon with NARAC at 5:00pm today to request these changes. Results should be available tomorrow morning.

2. GENERAL CRITERIA AS TO WHEN NRC WOULD RELAX ITS PAGs TO ALLOW FOR RE-ENTRY INTO THE 50-MILES EPZ TO GATHER PERSONAL BELONGINGS, PETS, ETC

   - Radioactivity releases have been terminated (or clearly under control) and the source of the radioactivity release is manageable.

   - Decision to allow public re-entry is based on actual field measurements and samples obtained from the affected area once the above criteria are satisfied.

   - Re-entry would not generally occur as long as the projected dose in the first years exceeds 2 rem, or exceeds 0.5 rem in the second year, or exceeds 5 rem in 50 years, depending on which case is most limiting.

From: LIA08 Hoc
Sent: Thursday, March 24, 2011 4:26 PM
To: LIA02 Hoc; LIA03 Hoc
Subject: FW: fyi - Talking Points for 5:30 PM call with NISA, Director Terasaka
Attachments: Talking Points for Chairman telecom with NISA Director General.docx

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From: Weber, Michael
Sent: Thursday, March 24, 2011 4:17 PM
To: Zimmerman, Roy; ET01 Hoc; ET05 Hoc; OST02 HOC; LIA06 Hoc; LIA08 Hoc
Cc: FOIA Response.hoc Resource
Subject: fyi - Talking Points for 5:30 PM call with NISA, Director Terasaka

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From: Abrams, Charlotte
Sent: Thursday, March 24, 2011 3:36 PM
To: Bradford, Anna
Cc: Mamish, Nader; Doane, Margaret; Borchardt, Bill; Emche, Danielle; Weber, Michael; Virgilio, Martin; Coggins, Angela; Batkin, Joshua; Loyd, Susan
Subject: FW: Talking Points for 5:30 PM call with NISA, Director Terasaka

The purpose of the call is to support NISA in its role as the critical, key governmental player to ensure that TEPCO responds promptly, adequately, and effectively to the nuclear related events in Japan. At this point the purpose of the call is to get the conversation going and to build trust with a very positive dialog.

Weighing the pros and cons of going into a more specific discussion:

1) This was envisioned as first meeting to open lines of communication. We should be in a listening mode to take back any information that could help the NRC team on the ground in Japan to be more successful.
2) We cleared these talking pts with the team on the ground and Bill Borchardt. If we go in with a more specific discussion at this point, the team has a concern that we could cause confusion with activities on the ground and diminish the trust that has been established, because of the communication difficulties (since this meeting is not in person) . You will be meeting a high level representative from NISA at the CNS which will be the next step.
3) Any talking points that would be raised as part of the discussion between the Chairman and Director Terasaka would have to be cleared with the Prime Minister. At this point, NISA and the Prime Minister were comfortable with holding the call with the understanding that discussion would be high level and somewhat general. More specific discussion that was not anticipated would make NISA uncomfortable for both political sensitivity and language reasons and we would need to delay the call.

From: Bradford, Anna
Sent: Thursday, March 24, 2011 2:19 PM
To: Emche, Danielle; Borchardt, Bill; Weber, Michael; Virgilio, Martin
Cc: Abrams, Charlotte; Batkin, Joshua; Coggins, Angela; Loyd, Susan
Subject: RE: Talking Points for 5:30 PM call with NISA, Director Terasaka
Importance: High

PPP/476

Bill,

OIP has provided the Chairman with some talking points for his 5:30 call with NISA, and I understand that you had some input to those. The Chairman reviewed them, and he wants more specific information to discuss rather than these high-levels generalities. Can someone please work to get that together? The Chairman said that he thought that Bruce Boger had mentioned getting together specific talking points.

Thanks.

Anna Bradford
Policy Advisor for Nuclear Materials
Office of Chairman Jaczko
U.S. Nuclear Regulatory Commission
301-415-1827

From: Emche, Danielle
Sent: Thursday, March 24, 2011 1:57 PM
To: Bradford, Anna
Cc: Abrams, Charlotte
Subject: RE: Talking Points for 5:30 PM call with NISA, Director Terasaka

Borchardt concurred and wrote the third talking point.

From: Bradford, Anna
Sent: Thursday, March 24, 2011 1:41 PM
To: Emche, Danielle
Cc: Abrams, Charlotte
Subject: RE: Talking Points for 5:30 PM call with NISA, Director Terasaka

Danielle, do these talking points contain input from OEDO or are they strictly an OIP product?

Anna Bradford
Policy Advisor for Nuclear Materials
Office of Chairman Jaczko
U.S. Nuclear Regulatory Commission
301-415-1827

From: Marshall, Michael
Sent: Thursday, March 24, 2011 1:14 PM
To: Emche, Danielle
Cc: Abrams, Charlotte; Bradford, Anna
Subject: RE: Talking Points for 5:30 PM call with NISA, Director Terasaka

Danielle,

No problem. I gave a copy to Angela Coggins to discuss with the Chairman, and I will give the other copy to Anna. I am sure our office will get back to you in a timely manner.

Best Regards,

Michael L. Marshall, Jr.
Policy Advisor for Reactors
Office of the Chairman
U.S. Nuclear Regulatory Commission

Phone: 301-415-1750
Email: michael.marshall@nrc.gov

From: Emche, Danielle
Sent: Thursday, March 24, 2011 1:12 PM
To: Marshall, Michael; Bradford, Anna
Cc: Abrams, Charlotte
Subject: Talking Points for 5:30 PM call with NISA, Director Terasaka

Hi Mike,
Thanks for letting us hand the talking points off to you. We plan to share these with the interpreters and Director Terasaka at 3 PM. This is so the interpreters can prepare. You can email or call when they are ready or if you have questions.
Danielle
X2644

Talking Points for Chairman telecom with NISA Director General Terasaka
(March 24, 2011)

- I would like to offer my condolences to all those affected by the tragic events in Japan following the recent earthquake and tsunami. The loss of life and environmental consequences are devastating. We are humbled by the magnitude and scale of the disaster, and by the inner strength of the Japanese people in bearing this heavy blow. I have confidence your country will move forward with determination and skill to rebuild your vibrant country.

- As regulators, our role is to provide an independent voice within our governments. How can we best support you to ensure that your views will be heard within your government?

- NISA and the NRC have long worked together, sharing information and operating experience, conducting confirmatory research, and discussing regulatory strategies. We hope that the experienced staff who are currently in Japan are providing valuable support to your response to the Fukushima Dai'ichi nuclear power plant events.

- We recognize that Japan has a significant challenge to respond to these events. We are interested in supporting you as you feel would be appropriate.

- I believe that, as has been our experience in events in the United States and elsewhere in the world, you are just at the beginning of this recovery endeavor. I want to assure you that, in addition to our continued support for the immediate needs concerning the Fukushima plants, over time we anticipate returning to the regular interactions between our two regulatory agencies.

<u>Background on talking points</u>

NISA – 3/23 meeting with NRC JapanTeam and NISA Senior Leadership was successful. Meetings between NRC/NISA continue to improve as the organization's staffs continue to build relationships and become more comfortable with one another. We discussed the need for NISA and TEPCO to align and better coordinate their activities. Despite certain recent progress, the situation is highly sensitive could be easily disturbed. *Your phone call will help to support this phase and transition to the next phase when more specific conversation will be logical.*

In a recent meeting on Wednesday 3/23 included discussion from NISA that areas of interest are:
1) radiation monitoring;
2) severe accident mitigation in the near term; and
3) mid-to-long-term strategies for coping with the situation, including decommissioning the sites and advice from experiences with TMI.

From: HOO Hoc
Sent: Sunday, March 27, 2011 3:22 PM
To: ET07 Hoc
Subject: FW: Briefing Phone Calls for Chairman Jaczko
Attachments: image001.jpg

FYI

Headquarters Operations Officer
U.S. Nuclear Regulatory Commission
Phone: 301-816-5100
Fax: 301-816-5151
email: hoo.hoc@nrc.gov
secure e-mail: hoo1@nrc.sgov.gov

U.S.NRC
United States Nuclear Regulatory Commission
Protecting People and the Environment

From: Pace, Patti
Sent: Sunday, March 27, 2011 3:18 PM
To: HOO Hoc
Cc: Batkin, Joshua; Bradford, Anna
Subject: Briefing Phone Calls for Chairman Jaczko

Good Afternoon,

This is to confirm Chairman Jaczko will not need ET Status briefing phone calls as previously arranged (twice daily at 0715 EDT and 1515 EDT) between now and the morning of Tuesday March 29th.

Please resume the schedule of calls starting at 1515EDT on Tuesday March 29th.

Many thanks!

Patti Pace
Assistant to Chairman Gregory B. Jaczko
U.S. Nuclear Regulatory Commission
301-415-1820 (office)
301-415-3504 (fax)

PPP/477

From: RMTPACTSU_ELNRC <RMTPACTSU_ELNRC@ofda.gov>
Sent: Thursday, March 24, 2011 10:21 AM
To: LIA11 Hoc; LIA01 Hoc; LIA02 Hoc; LIA07 Hoc; LIA08 Hoc; LIA12 Hoc; LIA04 Hoc; ET07 Hoc; Harrington, Holly; McIntyre, David; Burnell, Scott
Subject: FYI: Fukushima Press Clips 3.24.11
Attachments: Japan Clips 03.24.11.docx

Subject: Fukushima Clips 3.24.11

Please see attached. Thanks.

PPP/478

National Nuclear Security Administration

Japan/Fukushima Reactor Clips
Sunday, September 18, 2011

Employees are reminded that when they are directly contacted by the media, they should refer the contact to NNSA's Office of Public Affairs at 202-586-7371.

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FUKUSHIMA NEWS

Federal officials release Japanese radiation measures (USA Today)

Mar 23, 2011 | 06:22 PM
By Dan Vergano

Energy Department and **National Nuclear Security Administration** officials today detailed radiation measured from a recent aerial survey of Japan close to a crippled nuclear plant, finding a plume of high exposure headed northwest of the accident during the March 17 - 19 survey.

In the most high-exposure parts of the plume, radiation measures reached from 125 to 300 microSieverts per hour (12.5 mRem/hr to 30 mRem /hr). For perspective, the federal officials note that a medical x-ray exposes patients to about 100 microSieverts of radiation and the typical person receives 6,200 microSieverts exposure in a year (about .71 microSieverts /hr).

So the exposures are pretty low-dose, says the report. Still, the authors notes the "area of greater radiation extending northwest from the accident. This area may be of interest to public safety officials and responders."

Japanese radiation levels could have triggered larger evacuation area under U.S. guidelines (GovExec)

By William Matthews *bmatthews@govexec.com* March 23, 2011

Radiation levels in some unevacuated areas around Japan's crippled Fukushima Dai-ichi nuclear power plant were high enough to trigger "protective action," likely an evacuation, under U.S. radiation exposure guidelines.

The Energy Department used airborne and ground-based monitors to detect radiation that exceeded 12.5 millirems per hour, or 1,200 millirems over a four-day period, in areas outside the 12-mile evacuation zone surrounding the Japanese disaster. Under U.S. guidelines, if exposure to radiation exceeds 1,000 millirems -- a standard unit for measuring radiation -- over four days, then Environmental Protection Agency recommends protective action, an Energy report this week said.

Protective action could consist of staying indoors during a small, short-term release of radiation, but likely would involve evacuating areas before a major release, said Roger Hannah, a spokesman for the Nuclear Regulatory Commission.

A day before the monitoring began, NRC already had urged U.S. citizens and military personnel to move at least 50 miles away from the Fukushima plant. Japanese authorities ordered people within 12 miles of the plant to evacuate.

"Our recommendations are usually very conservative," Hannah said. So while protective action can mean "sheltering indoors" if a minor radiation release is expected, evacuation is the most effective way to ensure that people are not exposed to radiation during a prolonged release, he said.

Japanese emergency workers have been struggling to regain control over the Fukishima nuclear plant since it was severely damaged during the March 11 earthquake and tsunami. Energy sent 33 radiation experts from its **National Nuclear Security Administration** to Japan on March 15. They joined six others already there to begin sampling for radiation using sensors aboard U.S. military planes and at numerous locations on the ground.

The monitors discovered radiation readings of less than 1.19 millirems per hour along the coast and as far south as Tokyo and Kawasaki, as well as due west of the stricken power plant. But in a swath stretching northwest from the plant, they gathered readings of greater than 12.5 millirems per hour. The high radiation readings were discovered in an area northwest of the 12-mile evacuation zone.

"Given the circumstances, we would have recommended a larger evacuation area," Hannah said.

Energy gathered radiation levels near the Japanese power plant from March 17-19, according to the department's report.

Meanwhile, the Food and Drug Administration announced that its inspectors might block imports of dairy products, fresh produce and infant formula that come from areas around the Fukushima power plant.

Japanese health officials said March 19 they had discovered radioactive iodine at five times acceptable levels in those products during screening March 16-18.

In an unrelated radiation scare on March 22, the American Federation of Government Employees called for the Transportation Security Administration to begin nationwide monitoring of TSA workers for exposure to radiation from X-ray machines used to inspect airline passengers' luggage.

AFGE president John Gage said TSA workers should be given dosimeters, devices that to would track their radiation exposure. He said he made the request after learning TSA has ordered new tests on radiation-emitting equipment after finding errors in earlier results.

Anxiety in Japan over radiation in tap water (AP)

By SHINO YUASA and TOMOKO A. HOSAKA, Associated Press 32 mins ago

TOKYO – Some shops across Tokyo began rationing goods — milk, toilet paper, rice and water — as a run on bottled water coupled with delivery disruptions left shelves bare Thursday nearly two weeks after a devastating earthquake and tsunami.

The unusual sights of scarcity in one of the world's richest, most modern capitals came a day after city officials reported that radioactive iodine in Tokyo's tap water measured more than twice the level considered safe for babies.

Radiation has been leaking from a nuclear plant 140 miles (220 kilometers) northeast of Tokyo since it was slammed by the March 11 quake and engulfed by the ensuing tsunami. Feverish efforts to get the plant's crucial cooling system back in operation have been beset by explosions, fires and radiation scares.

On Thursday, two workers at the Fukushima Dai-ichi plant were treated at a hospital after stepping in contaminated water while laying electrical cables in one unit, nuclear and government officials said. The water seeped over the top of their boots and onto their legs, said Takashi Kurita, spokesman for plant owner Tokyo Electric Power Co.

The two workers likely suffered "beta ray burns," Tokyo Electric officials said, citing doctors. They tested at radiation levels between 170 to 180 millisieverts, well below the maximum 250 millisieverts allowed for workers, said Fumio Matsuda, a spokesman for the Nuclear and Industrial Safety Agency.

More than two dozen people have been injured trying to bring the plant under control.

The developments highlighted the challenges Japan faces after a magnitude-9.0 quake off Sendai triggered a massive tsunami. An estimated 18,000 people have been killed and hundreds of thousands have been left homeless as officials scramble to avert a major nuclear crisis.

Radiation has seeped into raw milk, seawater and 11 kinds of vegetables, including broccoli, cauliflower and turnips, grown in areas around the plant.

The U.S. and Australia were halting imports of Japanese dairy and produce from the region, Hong Kong said it would require that Japan perform safety checks on meat, eggs and seafood, and Canada said it would upgrade controls on imports of Japanese food products. Singapore, too, has banned the sale of milk, produce, meat and seafood from areas near the plant.

Concerns also spread to Europe. In Iceland, officials said they measured trace amounts of radioactive iodine in the air but assured residents it was "less than a millionth" of levels found in European countries in the wake of the 1986 Chernobyl disaster.

Radioactive iodine is short-lived, with a half-life of eight days — the length of time it takes for half of it to break down harmlessly. However, experts say infants are particularly vulnerable to radioactive iodine, which can cause thyroid cancer.

In Tokyo, government spokesman Yukio Edano pleaded for calm, and said the government was considering importing bottled water from other countries to cover any shortages. Officials urged residents to avoid panicked stockpiling, sending workers to

distribute 240,000 bottles — enough for three small bottles of water for each of the 80,000 babies under age 1 registered with the city.

That didn't stop Reiko Matsumoto, mother of 5-year-old Reina, from rushing to a nearby store to stock up.

"The first thought was that I need to buy bottles of water," the Tokyo real estate agent said. "I also don't know whether I can let her take a bath."

New readings showed Tokyo tap water was back to safe levels Thursday but the relief was tempered by elevated levels of the cancer-linked isotope in two neighboring prefectures: Chiba and Saitama. A city in a third prefecture, just south of the nuclear plant, also showed high levels of radioactive iodine in tap water, officials said.

Tap water in Kawaguchi City in Saitama, north of Tokyo, contained 210 becquerels of radioactive iodine — well above the 100 becquerels considered safe for babies but below the 300-becquerel level for adults, Health Ministry official Shogo Misawa said.

In Chiba prefecture, the water tested high for radiation in two separate areas, said water safety official Kyoji Narita. The government there warned families in 11 cities in Chiba not to feed infants tap water.

"The high level of iodine was due to the nuclear disaster," Narita said. "There is no question about it."

Radiation levels also tested dangerously high in Hitachi in Ibaraki prefecture, about 70 miles (120 kilometers) south of the Fukushima plant, city water official Toshifumi Suzuki said. Officials were distributing bottled water, he said.

The limits refer to sustained consumption rates, and officials said parents should stop using tap water for baby formula but that it was no problem for infants to consume small amounts.

Still, shelves were bare in many stores across Tokyo.

Maruetsu supermarket in central Tokyo sought to impose buying limits on specific items to prevent hoarding: only one carton of milk per family, one 5-kilogram bag of rice, one package of toilet paper, one pack of diapers, signs said. Similar notices at some drugs stores told women they could only purchase two feminine hygiene items at a time.

Maruetsu spokeswoman Kayoko Kano acknowledged that the earthquake and tsunami resulted in delays of some products.

A spokesman for Procter & Gamble Japan said its plant was fully operational but that rolling blackouts in Tokyo may be affecting distribution. "Consumers are nervous, and they may be buying up supplies," Noriyuki Endo added.

Hardship continued in the frigid, tsunami-struck northeast. Some 660,000 households still do not have water, the government said. Electricity has not been restored to some 209,000 homes, Tohoku Electric Power Co. said. Damage is estimated at $309 billion, making it the most costly natural disaster on record.

In Fukushima, farmer Sumiko Matsuno went out to her fields and dug up all the vegetables she could — not to sell but to eat.

"If it's in the ground, it's still safe," she said. "The leafy ones are no good anymore. We are digging up all our carrots and onions as fast as we can."

Matsuno, 65, said she was worried about the future.

"If this goes on, it is going to really hurt us."

Anxiety Up as Tokyo Issues Warning on Its Tap Water (NY Times)

By DAVID JOLLY and DENISE GRADY
March 23, 2011

TOKYO — Radioactive iodine detected in Tokyo's water supply prompted Japanese authorities on Wednesday to warn that infants in Tokyo and surrounding areas should not be given tap water to drink, adding to the anxiety about public safety posed by Japan's unfolding nuclear crisis.

Ei Yoshida, head of water purification for the Tokyo water department, said at a televised news conference that iodine 131 had been detected in water samples at a level of 210 becquerels per liter, about a quart. The recommended limit for infants is 100 becquerels per liter. For adults, the recommended limit is 300 becquerels. (The unit is named for Henri Becquerel, one of the discoverers of radioactivity.)

The announcement prompted a run on bottled water at stores in Tokyo and a pledge from the authorities to distribute bottled water to families with infants. Prime Minister Naoto Kan said earlier Wednesday that the public should avoid additional farm produce from areas near the Fukushima Daiichi Nuclear Power Station, severely damaged by the March 11 earthquake and tsunami, according to the Japanese news media.

The Health Ministry said that it was unlikely that there would be negative consequences for infants who were given the water, but that it should be avoided if possible and not be used to make infant formula. There was some confusion about the public health advice, with experts saying it should also apply to pregnant women, since they and fetuses were vulnerable.

"It's unfortunate, but the radiation is clearly being carried on the air from the Fukushima plant," Yukio Edano, the chief cabinet secretary, said Wednesday. "Because it's raining,

it's possible that a lot of places will be affected. Even if people consume the water a few times, there should be no long-term ill effects."

As authorities tried to maintain calm in Tokyo, residents were racing to buy as much bottled water as they could, clearing the shelves of the city's stores. Mr. Edano said Thursday that officials were considering a plan to import water from overseas, to supplement the bottles they planned to begin distributing across the city.

Despite the frequent rain in recent days, it was not entirely clear why the levels of iodine were so high, said a senior Western nuclear executive, noting that the prevailing breezes seemed to be pushing radiation out to sea. "The contamination levels are well beyond what you'd expect from what is in the public domain," said the executive, who insisted on anonymity and has broad contacts in Japan.

It was possible that the levels were an indirect indication that the problems at the plant were deeper than had been publicly acknowledged.

The daily Asahi Shimbun cited the Health Ministry as saying that drinking the water would hurt neither a pregnant woman nor her fetus, and that it was safe for bathing and other everyday activities.

But experts say that pregnant women, nursing mothers and fetuses, as well as children, face the greatest danger from radioactive iodine, which is taken in by the thyroid gland and can cause thyroid cancer. Children are at much higher risk than adults because they are growing, and their thyroid glands are more active and in need of iodine. In addition, the gland is smaller in children than in adults, so a given amount of iodine 131 will deliver a higher dose of radiation to a child's thyroid and potentially do more harm.

According to the Centers for Disease Control and Prevention, if an adult and a child ingest the same amount of radioactive iodine, the thyroid dose will be 16 times higher to a newborn than to an adult; for a child under 1 year old, eight times the adult dose; for a 5-year-old, four times the adult dose.

Pregnant women also take up more iodine 131 in the thyroid, especially in the first trimester. The iodine crosses the placenta and reaches the fetus, and the fetal thyroid takes up more iodine as pregnancy progresses. During the first week after birth a baby's thyroid activity increases up to fourfold and stays at that level for a few days, so newborns are especially vulnerable.

Potassium iodide can protect the thyroid by saturating it with normal iodine. People in Japan have been advised to take it.

The 1986 accident at Chernobyl caused an epidemic of thyroid cancer — 6,000 cases so far — in people who were exposed as children. The culprit was milk produced by cows that had grazed on grass heavily carpeted by fallout. The epidemic could probably have

been prevented if people in the region had been told not to drink milk and if they had been given potassium iodide.

The warning Wednesday applied to Tokyo's 23 wards, as well as to the towns of Mitaka, Tama, Musashino, Machida and Inagi to the west. At a press briefing on Thursday, Mr. Edano said radiation had also shown up in tests of water supplies for two of Tokyo's neighboring prefectures, Chiba and Saitama, in levels above the maximum recommended limits for infants, but below levels considered dangerous to adults.

At a Lawson convenience store in the Tsukiji neighborhood of central Tokyo, the shelves were about half-stocked with water. A clerk said he had restocked them just an hour before.

"People came in and cleared us out in the first hour after the announcement," he said, saying he did not want to be identified because he did not want to anger his boss. "They were taking 20 or 30 bottles at a time."

Outside the store a man struggling to load more than 30 half-liter bottles on his bicycle said he had bought the water for his wife, who is seven months pregnant.

"Tap water is O.K. for me," he said, asking that he be identified only by his family name, Takahashi. "But all they said was that babies shouldn't drink it. They haven't said anything about what pregnant women should do."

"We're going to stay in Tokyo for now," Mr. Takahashi, 31, said, "unless the reactor problem gets worse."

The city government said it would begin distributing 240,000 bottles of water on Thursday to families with children younger than 1 year, the broadcaster NHK reported. There are about 80,000 such children in the affected zone, NHK said. Outside Tokyo, the government said it had found radioactive materials exceeding legal limits in 11 vegetables in Fukushima Prefecture, the Kyodo news agency reported. Shipments of the affected vegetables from there ended on Monday. On Wednesday, Prime Minister Kan also suspended shipments of raw milk and parsley from neighboring Ibaraki Prefecture, Kyodo reported.

The United States Food and Drug Administration said on Tuesday that it would prohibit imports of dairy goods and produce from the affected region. Hong Kong also banned food and milk imports from the area. Canada on Wednesday imposed stricter controls on milk products, fruits and vegetables, and Australia on Thursday imposed new restrictions on food products including seaweed and seafood.

Mr. Kan's office said Wednesday that rebuilding after the 9.0-magnitude quake and tsunami would cost up to $309 billion. The World Bank, citing private estimates, said on Monday that the figure could reach $235 billion.

The economic cost of the disaster has hit the Tokyo Electric Power Company, which operates the crippled nuclear plant and is in negotiations with its bankers for loans of as much as $24 billion, according to a person with direct knowledge of the situation who asked not to be identified.

The Associated Press reported on Wednesday that the official death toll from the disaster had been raised to more than 9,500, with more than 16,000 people missing, although officials said there could be overlap between the figures.

Meanwhile, a magnitude 6.0 quake shook Fukushima Prefecture in the morning, according to the Japan Meteorological Agency, followed by a magnitude 5.8 tremor about 20 minutes later.

Tokyo tap water not safe for infants, officials warn (LA Times)

Levels of radioactive iodine found to be about double the safe levels for children under age of 1. Black smoke billows from a reactor at the stricken Japanese nuclear plant.

By Julie Makinen, Los Angeles Times
2:54 PM PDT, March 23, 2011

Reporting from Tokyo -- Infants in Tokyo and five surrounding cities should not be allowed to consume tap water, the city's government said Wednesday after elevated levels of radioactive iodine from a crippled nuclear plant were detected at a water treatment plant.

Japanese Prime Minister Naoto Kan urged consumers not to eat a dozen types of contaminated vegetables from the region surrounding the nuclear facility 150 miles northeast of the capital and also expanded a shipment ban.

Water tests in Tokyo found levels of radioactive iodine 131 at 210 becquerels per liter Tuesday and 190 becquerels per liter on Wednesday morning, about double the level of 100 becquerels per liter deemed safe for children under the age of 1. A level of 300 becquerels per liter is considered safe for adults.

Tokyo Gov. Shintaro Ishihara said the city's water was safe for "non-potable" use and urged residents to remain calm. But some convenience stores were sold out of bottled water late Wednesday and officials announced plans to distribute bottled water to 80,000 households with young children.

The national government said damage from the March 11 earthquake, tsunami and nuclear accident could reach 25 trillion yen or nearly $310 billion, significantly more than the World Bank's recent estimate of $235 billion. The disaster could shrink Japan's gross domestic product by 0.5% in fiscal year 2011, which begins April 1, the government said.

The new estimate could even be on the low side, because the government said it excludes losses in productivity from continuing power outages as well as the problems at the Fukushima Daiichi nuclear plant. The disaster could shrink Japan's gross domestic product by 0.5% in fiscal year 2011, which begins April 1, the government said.

Workers continued their struggle to gain control over the Fukushima Daiichi nuclear plant. Dark smoke at the No. 3 reactor forced officials to evacuate the facility Wednesday afternoon.

Earlier, high temperatures at Reactor No. 1 and high radiation at Reactor No. 2 were reported, the government's nuclear agency said, dashing hopes that reestablishing power to the entire plant on Tuesday would quickly help stabilize it.

As relief officials and evacuees continued to battle subfreezing temperatures on the 12th day after the quake, the National Police agency said the death toll had increased to 9,523 and the number of missing had risen yet again, from 14,700 Wednesday morning to 16,094 by 11 p.m.

Some rescuers said the rising toll of missing may reflect the fact that aid workers are still encountering groups of survivors who had been cut off from rescue efforts and are only now registering their missing loved ones.

U.S. Ambassador to Japan John Roos and a contingent of U.S. military officials toured towns along Japan's battered northern coast. In Ishinomaki, he offered words of encouragement and further pledges of American support to a group of survivors who have taken shelter in an elementary school gymnasium.

In Yamada city in Iwate prefecture, about 100 miles north of Sendai, UCLA pediatric critical care doctor Kozue Shimabukuro said snow was falling as evacuees at one local elementary school lined up for food. Residents' mobility was improving after days in which residents were only able to get around by foot, she said, thanks in part to Japanese Self-Defense Force troops clearing massive amounts of debris. A gas shortage also has eased.

"A portable shower was set up today, so it was a good day," said Shimabukuro, 34, a native of Okinawa, who is volunteering with relief efforts.

At the nuclear plant, Tokyo Electric Power Co. said two workers were hospitalized after being injured Tuesday in the effort to reconnect power, although they were not exposed to radiation.

Chief cabinet secretary Yukio Edano said the source of the smoke Wednesday afternoon at Reactor No. 3 was unclear. But radiation levels one kilometer west of the plant had not changed, officials said. In Fukushima prefecture, tap water with levels exceeding 300 becquerels has been found.

Tepco has asked banks for about $18 billion in emergency loans to cope with the crisis at the power plant and the resulting power shortages in a wider area. Economy Minister Kaoru Yosano said ongoing power shortages would pose the biggest problem for Japan's economy.

Insurers are tabulating their losses. Munich Re said Tuesday that it estimated its claims in Japan would amount to about 1.5 billion euros, or about $2.1 billion, and that its profit forecast for the year could not be maintained. Hannover Re said Wednesday it would have claims of about 250 million euros, or $355 million, from the Japan disaster. The World Bank's recent report estimated that insurers would face claims of up to $33 billion in Japan.

Meanwhile, the U.S. Food and Drug Administration on Tuesday banned the importation of milk, milk products and fresh fruits and vegetables from four areas near the plant.

Minuscule particles of fallout from the Japanese plant have reached Iceland and are expected in France and elsewhere in Europe, experts said Wednesday, but stressed they don't pose a health risk, according to wire reports.

A plume carrying trace amounts of radioactive iodine has been detected in Iceland, the country's Radiation Safety Authority said. However, it added, the concentration was "less than a millionth" of what was found in European countries in the wake of the 1986 Chernobyl disaster that spewed radiation over a large distance.

New Problems at Japanese Plant Subdue Optimism (NY Times)

By KEITH BRADSHER
March 23, 2011

The Japanese electricians who bravely strung wires this week to all six reactor buildings at a stricken nuclear power plant succeeded despite waves of heat and blasts of radioactive steam.

The restoration of electricity at the plant, the Fukushima Daiichi Nuclear Power Station, stirred hopes that the crisis was ebbing. But nuclear engineers say some of the most difficult and dangerous tasks are still ahead — and time is not necessarily on the side of the repair teams.

The tasks include manually draining hundreds of gallons of radioactive water and venting radioactive gas from the pumps and piping of the emergency cooling systems, which are located diagonally underneath the overheated reactor vessels. The urgency of halting the spread of radioactive contamination from the site was underlined on Wednesday by the health warning that infants should not drink tap water — even in Tokyo, 140 miles southwest of the stricken plant — which raised alarms about extensive contamination.

"We've got at least 10 days to two weeks of potential drama before you can declare the accident over," said Michael Friedlander, who worked as a nuclear plant operator for 13 years.

Nuclear engineers have become increasingly concerned about a separate problem that may be putting pressure on the Japanese technicians to work faster: salt buildup inside the reactors, which could cause them to heat up more and, in the worst case, cause the uranium to melt, releasing a range of radioactive material.

Richard T. Lahey Jr., who was General Electric's chief of safety research for boiling-water reactors when the company installed them at the Fukushima Daiichi plant, said that as seawater was pumped into the reactors and boiled away, it left more and more salt behind.

He estimates that 57,000 pounds of salt have accumulated in Reactor No. 1 and 99,000 pounds apiece in Reactors No. 2 and 3, which are larger.

The big question is how much of that salt is still mixed with water and how much now forms a crust on the uranium fuel rods.

Crusts insulate the rods from the water and allow them to heat up. If the crusts are thick enough, they can block water from circulating between the fuel rods. As the rods heat up, their zirconium cladding can rupture, which releases gaseous radioactive iodine inside and may even cause the uranium to melt and release much more radioactive material.

Some of the salt might be settling to the bottom of the reactor vessel rather than sticking to the fuel rods, however.

The Japanese have reported that some of the seawater used for cooling has returned to the ocean, suggesting that some of the salt may have flowed out again, with some radioactive material. But clearly a significant amount of salt remains.

A Japanese nuclear safety regulator said on Wednesday that plans were under way to fix a piece of equipment that would allow freshwater instead of seawater to be pumped in.

He said that an informal international group of experts on boiling-water reactors was increasingly worried about salt accumulation and was inclined to recommend that the Japanese try to flood each reactor vessel's containment building with cold water in an effort to prevent the uranium from melting down. That approach might make it harder to release steam from the reactors as part of the "feed-and-bleed" process that was being used to cool them, but that was a risk worth taking, he said.

Public alarm about the crisis increased on Wednesday after officials announced that levels of radioactive iodine had been detected in Tokyo's tap water.

Recent rains might have washed radioactive particles into the water, as the Japanese government suggested. But prevailing breezes for the past two weeks should have been pushing the radiation mostly out to sea. And until Wednesday, some experts had predicted that radioactive iodine would not be much of a problem, because the fission necessary to produce iodine — which breaks down quickly, with a half-life of just eight days — stopped within minutes of the earthquake on March 11. The fear is that more radiation is being released than has been understood.

Preventing the reactors and storage pools from overheating through radioactive decay would go a long way toward limiting radioactive contamination. But that would require pumping a lot of cold freshwater through them.

The emergency cooling system pump and motor for a boiling-water reactor are roughly the size and height of a compact hatchback car standing on its back bumper. The powerful system has the capacity to propel thousands of gallons of water a minute throughout a reactor pressure vessel and storage pool. But that very power can also be the system's Achilles' heel.

The pump and piping are designed to be kept full of water. But they tend to leak and develop alternating pockets of air and water, Mr. Friedlander said.

If the pump is turned on without venting the air and draining the water, the water from the pump would hit the alternating pockets with enough force to blow holes in the piping. Venting the air and draining the water requires a technician to reach a dozen valves, sometimes using a ladder. The water is removed through a hose to the nearest drain, usually in the floor, that leads to machinery designed to remove radiation from the water.

The process takes a full 12 hours in a reactor that is operating normally, Mr. Friedlander said. But even then, the water in the pipes tends to be radioactively contaminated because the valves that separate it from the reactor are not entirely tight.

Backlash from the reactor is likely to be an even bigger problem when the water inside the reactor is much more radioactive than usual and is under extremely high pressure.

Japanese government and power company officials expressed optimism on Wednesday morning that the crisis was close to being brought under control, only to encounter two reminders in the afternoon of the unpredictable difficulties that lie ahead.

Fukushima Daiichi's Reactor No. 3 began belching black smoke for an hour late in the afternoon, leading its operator, the Tokyo Electric Power Company, to evacuate workers. A spokeswoman said Thursday that more tests were needed before the company could determine how to proceed in its effort to restore the cooling system.

No. 3 is considered one of the most dangerous of the reactors because of its fuel — mixed oxides, or mox, which contain a mixture of uranium and plutonium and can produce a more dangerous radioactive plume if scattered by fire or explosions.

The spokeswoman said workers would try to repair a pump at Reactor No. 5, which was shut down at the time of the quake and has shown few problems. The pump abruptly stopped working Wednesday afternoon.

Japan nuclear crisis still a serious concern (Reuters)

Wed, Mar 23 2011
By Shinichi Saoshiro and Yoko Kubota

TOKYO (Reuters) - Tokyo residents were warned not to give babies tap water because of radiation leaking from a nuclear plant crippled in the earthquake and tsunami that devastated northeast Japan in the world's costliest natural disaster.

The U.N. atomic agency said there had been some positive developments at the Fukushima nuclear plant 250 km (150 miles) north of Tokyo but the overall situation remained serious. Some countries have started blocking imports of produce from Japan, fearful of radiation contamination.

The first official estimate put the cost from the March 11 disaster at more than $300 billion, dwarfing losses from both the 1995 Kobe quake and Hurricane Katrina that swept through New Orleans in 2005, making it the world's costliest natural disaster.

The plant, battered by a 9.0 magnitude earthquake and tsunami that has left 23,000 people dead or missing, has still not been brought under control, and workers were forced away from the complex when black smoke began rising from one of its six reactors.

"There are some positive developments related to the availability of electrical power...although the overall situation remains of serious concern," Graham Andrew, a senior official of the International Atomic Energy Agency (IAEA), told a news conference.

Tokyo authorities said on Wednesday that water at a purification plant for the capital of 13 million people had 210 becquerels of radioactive iodine -- more than twice the safety level for infants.

Tokyo Governor Shintaro Ishihara said that level posed no immediate risk. "But, for infants under age one, I would like them to refrain from using tap water to dilute baby formula."

As concern grew over the risk to food safety of radiation from the nuclear plant, the United States became the first nation to block some food imports from the disaster zone.

It is stopping imports of milk, vegetable and fruit from four prefectures in the vicinity of the plant.

Hong Kong, a major importers of Japanese food, also banned produce and milk imports from the disaster zone. Japan's Jiji news agency said Hong Kong authorities had found radioactivity levels in spinach and turnip samples up to 10 times above the safety limit.

France this week asked the European Commission to look into harmonizing controls on radioactivity in imports from Japan, after the world's worst atomic crisis since Chernobyl in 1986.

Authorities have said above-safety radiation levels had been discovered in 11 types of vegetables from the area, in addition to milk and water, and have halted shipments of some food and told people there to stop eating leafy vegetables.

Japanese authorities told the IAEA two prefectures near the crippled plant -- Chiba and Ibaraki -- were advised to monitor seafood products, Andrew said.

High levels of radioactive iodine and cesium were measured close to water discharge points at the Fukushima power plant, "before dilution by the ocean," he told a news conference.

Chief cabinet secretary Yukio Edano, the government's public face during the disaster, urged the world not to overreact.

Edano also said an exclusion zone around the plant did not need to be expanded and he urged Tokyo residents not to hoard bottled water, a plea that fell on deaf ears with many shops quickly selling out of supplies.

"If this were temporary, I wouldn't be so worried. If this is a long term, I think we have a lot to worry about," said Riku Kato, father of a one-year-old baby.

Physicians for Social Responsibility, a U.S. anti-nuclear group, disputed the food safety assurances and called for a more strict ban on sales of exposed food.

"There is no safe level of radionuclide exposure, whether from food, water or other sources. Period," said physician Jeff Patterson, a former president of the group.

The Asian nation's worst crisis since World War Two has sent shock waves through global financial markets.

The damage estimate of $300 billion could go higher as it does not include losses in economic activity from planned power outages or the broader impact of the nuclear crisis. The 1995 Kobe quake cost $100 billion while Hurricane Katrina caused $81 billion in damage.

More than a quarter of a million people are living in shelters, while rescuers and sniffer dogs comb debris and mud looking for corpses and personal mementos.

POWER CABLES ATTACHED

Technicians have successfully attached power cables to all six reactors at the Fukushima plant and started a pump at one to cool overheating fuel rods.

As well as having its workers on the front line in highly dangerous circumstances, Tokyo Electric Power Co (TEPCO) is also facing accusations of a slow disaster response and questions over why it originally stored more uranium at the plant than it was designed to hold.

The IAEA has expressed concern about a lack of information from Japanese authorities, citing missing data on temperatures of spent fuel pools at the facility's reactors 1, 3 and 4.

Japan Nuclear Safety Commission Chairman Haruki Madarame said the government was "swiftly releasing information that is certain and not speculative" within Japan, but acknowledged it is behind in releasing information to foreign countries."

Experts have said tiny radioactive particles, measured by a network of monitoring stations as they spread eastwards from Japan across the Pacific, North America, the Atlantic and to Europe, were far too low to cause any harm to humans.

"It's only a matter of days before it disperses in the entire northern hemisphere," said Andrea Stahl, a senior scientist at the Norwegian Institute for Air Research.

GLOBAL IMPACT

The Japan disaster has dealt a blow to the nuclear power industry around the world. Italy became the latest nation to re-assess its program, announcing a one-year moratorium on site selection and building of plants.

Crisis in the world's third-biggest economy -- and its key position in global supply chains, especially for the auto and technology sectors -- has added to global market jitters, also affected by conflict in Libya and unrest in the Middle East.

The death toll from the disaster has risen to 9,523, but with 16,094 people still missing, it is certain to rise.

There are reports that dozens of survivors, mostly elderly, have died in hospitals and evacuation centers from a lack of proper treatment, or simply because of the cold.

Fukushima workers in hospital after radiation exposure (BBC News)

24 March 2011 Last updated at 05:20 ET

Two workers at Japan's damaged Fukushima Daiichi nuclear power plant have been taken to hospital after being exposed to high levels of radiation.

The pair had been attempting to restore the cooling system in reactor 3, which was damaged by the quake on 11 March.

Several workers have now been hurt on the site, an indication of the scale of the task facing them.

Radiation levels in Tokyo's water supply have now fallen, but remain high in other areas of northern Japan.

The official death toll from the magnitude 9.0 quake and subsequent tsunami has now risen to 9,523. Another 16,094 people are listed as missing.

Japan's nuclear safety agency said three workers had been injured when their feet came into contact with radiation-contaminated water while laying cables in the turbine area of reactor 3.

They were exposed to radiation levels of 170-180 millisieverts, he said, which is lower than the maximum level permitted for workers on the site of 250 millisieverts. Two of the workers were taken to hospital.

"Although they wore protective clothing, the contaminated water seeped in and their legs were exposed to radiation," said a spokesman.

"Direct exposure to radiation usually leads to inflammation and so that's why they were sent to the hospital to be treated."

Most people are exposed to 2 millisieverts over the average year, while 100 millisieverts is considered the lowest level at which any increase in cancer is clearly evident.

The condition of the injured workers was not immediately known.

Japan's chief cabinet secretary Yukio Edano said the situation was "very regrettable".

'Serious concern'

The power plant's cooling systems failed after the quake and tsunami, leading to the reactors overheating.

Power has now been restored to the site, but work to restart the coolers in reactor 3 was briefly suspended on Wednesday after a plume of black smoke was seen coming from it.

Tokyo Electric Power Co, which operates the plant, later allowed workers to re-enter after establishing there was no fire and that radiation level in the area had not risen.

The International Atomic Energy Agency (IAEA) said there had been some "positive developments" at the site but that the situation was still "of serious concern".

The plant is 250km (155 miles) north-east of the capital, Tokyo. The government has declared a 20km exclusion zone and evacuated tens of thousands of people. Those living up to 30km away have been told to stay indoors to minimise exposure.

People in Fukushima prefecture have been told not to eat 11 types of green leafy vegetables grown locally because of contamination worries. Local producers have been ordered not to send the goods to market.

Tokyo residents were warned on Wednesday not to give tap water to babies less than a year old because levels of radioactive iodine - which can cause thyroid cancer - are twice the recommended safe level in some areas of the city.

Officials stressed that children would have to drink a lot of it before it harmed them and urged people not to panic-buy. But supermarket shelves were reported to have been cleared of bottled water by Thursday morning.

"Customers ask us for water. But there's nothing we can do," Masayoshi Kasahara, a supermarket worker in Tokyo told Reuters.

"We are asking for more deliveries but we don't know when the next shipment will come."

Emergency shelters

Radiation readings on Thursday showed levels in water in Tokyo had fallen back below the danger level, but the municipal authorities are distributing thousands of bottles of water to households with infants.

The authorities in the nearby city of Kawaguchi, Saitama prefecture, also reported radiation levels above safety norms in its water supply on Thursday.

Concern is also growing among Japan's neighbours. Australia has become the latest country to ban food imports from the affected region.

Police believe the final death toll from Japan's twin disaster may be more than 18,000.

Most of the deaths - 5,700 - have been reported in the prefecture of Miyagi. Three thousand bodies have been found in Iwate prefecture, and 776 in Fukushima.

At least 18,000 houses were destroyed and 130,000 damaged, and more than 200,000 people are living in emergency shelters.

The Japanese government has said it will cost as much as 25 trillion yen ($309bn; £189bn) to rebuild the country after the disaster.

U.S. Aircraft Carrier Moved From Yokosuka Port To Avoid Radiation Traces (Bloomberg)

By Tony Capaccio, Bloomberg News
March 23, 2011

The aircraft carrier USS George Washington was moved this week from its Japanese port to avoid a potentially costly and complex future cleanup to remove traces of radiation, the Navy's top uniformed official said yesterday.

The carrier did not face an acute, near-term radiation threat that would have forced its departure from Yokosuka, about 175 miles south of the crippled Fukushima Dai- Ichi nuclear plant, said Chief of Naval Operations Admiral Gary Roughead.

Rather, Roughead said, he wanted to move the flattop because even residual traces of radiation on a nuclear-powered warship, while not harmful from a health standpoint, could be mistaken as a sign of a shipboard nuclear leak requiring identification and cleanup, he said.

"The fact that somebody could go aboard and detect some trace, I think, injects challenges," he said in an interview. "When you think of an aircraft carrier that has literally thousands of miles of ventilation ducting in it, you've got a significant cleaning issue.

''My view was 'let's just get her out,' get her away from where she could pick up any sort of contamination so that that ship stays clean," Roughead said.

U.S. Navy ships and helicopters have been involved in rescue efforts following the 9.0 magnitude earthquake and subsequent tsunami that hit Japan's Tohoku region on March 11.

The U.S. military has about 38,000 personnel ashore in Japan and an additional 11,000 afloat in the region or dispersed among 85 facilities on Honshu, Kyushu and Okinawa, according to U.S. Forces Japan.

"Radiation levels" from the crippled power plant "are not life-threatening or health-threatening -- for all Americans there -- but I watch that very closely," Roughead said.

"I am very comfortable were we are in Japan in terms of the safety to our people and the precautions being taken," he said.

The Japanese government has struggled to contain the ripple effects of the natural disasters that crippled the nuclear facility north of Tokyo.

Tokyo Electric Power Co. said fuel rods at the plant have been damaged, releasing five kinds of radioactive material and contaminating seawater for the first time.

Japan atom plant worker received high radiation-IAEA (Reuters)

3:07pm EDT

VIENNA, March 23 (Reuters) - One of the workers struggling to avert a disaster at Japan's crippled nuclear plant was exposed to a high radiation dose that may increase the risk of cancer, a U.N. atomic agency official said on Wednesday.

Japanese authorities have also told the International Atomic Energy Agency (IAEA) two prefectures near the crippled plant -- Chiba and Ibaraki -- were advised to monitor seafood products, the official, Graham Andrew, said.

High levels of radioactive iodine and caesium were measured close to water discharge points at the Fukushima power plant, "before dilution by the ocean", he told a news conference.

Japanese authorities tested seawater off the plant's site for radiation on Tuesday, but stressed elevated levels already detected were no cause for worry.

In a desperate attempt to cool the reactors and their spent fuel ponds, workers have sprayed or dumped sea-water into the plant's cooling system. Officials have acknowledged some of the water spilled back to sea.

The plant has still not been brought under control, and workers were forced away from the complex when black smoke began rising from one of its six reactors on Wednesday. The IAEA said it had not received any information about the incident.

IAEA DEFENDS ROLE

Andrew said Japanese authorities had told the agency radiation dose rates at the plant were decreasing, but suggested iodine and caesium contamination in nearby areas had risen.

The IAEA also had information about eighteen workers at the site which had been exposed to radiation since the accident, including one who got a dose rate of about 0.1 sieverts (106.3 millisieverts), although no medical treatment was required.

The agency did not say when it happened. The average dose for a nuclear plant worker is 50 millisieverts over five years.

The operator of Fukushima said last week it had raised the limit for the emergency work to 100 millisieverts an hour.

"The 0.1 sievert which you have there is certainly not a low dose and the individual may have a greater risk of certain cancer in the future...So it is something to be avoided, it is a high dose," Andrew said.

A senior former IAEA official, Olli Heinonen, has criticised the initial response of his former employer to the crisis, saying its early reports after the March 11 earthquake provided scant, and at times contradictory information from Japan.

The IAEA has said it could only give the information to its member states it itself received from Japan.

"I think our response was the best we could give in the circumstances...I'm surprised to hear that he is criticising us. He would understand, I think, from working here," Andrew said.

Nuclear crisis highlights operator's checkered past (CNN)

By David Fitzpatrick and Drew Griffin, CNN Special Investigations Unit
March 23, 2011 1:59 p.m. EDT

(CNN) -- The operator of the nuclear reactors and power plants on the northern coast of Japan has a documented history of errors and cover-ups and, according to anti-nuclear activists, a pattern of hiding the truth when things go wrong.

Amidst the confusion and uncertainty surrounding the exact nature of the stress and damage at the Fukushima Daiichi nuclear plant, even Japan's Prime Minister, Naota Kan, was overheard demanding from officials of the Tokyo Electric Power Company (TEPCO) why the company withheld some information from the government.

Those reported comments were in themselves unusual because in the past, critics say, there has been close cooperation between the two.

"The history of the Japanese nuclear industry and the government is that is very tight and is less than glorious in regard to public information and full disclosure," Arjun Mahkijani told CNN.

Mahkijani is director of a small Washington-based public interest group called the Institute for Energy and Environmental Research and has long been critical of nuclear power, both in the United States and around the world.

"These events are unprecedented," he said, "and there's every reason to believe TEPCO has not told the entire truth of what's been happening."

TEPCO officials deny they have been hiding critical data from the Japanese government.

But there's a detailed history of just those kinds of events in the recent past.

In 2002, the president of TEPCO and four other executives resigned when it was discovered that repair and inspection records at the Fukushima plant had been doctored. The company admitted "dishonest practices" after an internal investigation.

"It was discovered that TEPCO had covered up incidents of cracking of an important piece of equipment in all of its reactors and as a result, they were forced to shut down all 17 of their reactors," anti-nuclear activist Phillip White told CNN. White is the English-language liaison for an organization called Citizens Nuclear Information Center (CNIC), Japan's largest anti-nuclear organization.

"There was a pattern that emerged that TEPCO isn't frank and deliberately covers up to protect its own interests," he said.

In 2007, an 6.8-magnitude earthquake struck western Japan and affected another plant owned by TEPCO. The company reported only a minor fire but later, admitted that the fire had burned for two hours and that hundreds of gallons of radioactive water had leaked into the sea.

"The plant simply wasn't designed for the level of earthquake that took place, " Mahkijani told CNN. "They were very lucky not to have a bigger disaster then."

Against that background is what White and other anti-nuclear activists say is a far too-cozy relationship between Japanese nuclear regulators and power plant operators like TEPCO.

The chief regulatory agency is called Nuclear Industrial and Safety Agency (NISA), but it does not, according to critics, operate at an arms-length distance from the industry it is charged with regulating. NISA is part of the giant Japanese Ministry of Economy, Trade and Industry (METI). That ministry is charged, among other things, with selling Japanese technology (including nuclear technology) abroad.

"There's no true regulation of the Japanese nuclear industry," Phillip White told CNN. "It's just an amiable fiction."

NISA approved a 10-year extension for the life of the oldest of the six reactors at Fukushima Daiichi just before the earthquake struck. This, despite allegations that safety at the reactor in question had been questioned.

TEPCO admitted on its website that it had failed to properly inspect 33 pieces of equipment related to the cooling systems at the reactor, and told CNN that everything that needed to be addressed has been done. It said it would take corrective action in the future to prevent similar problems from occurring.

Nuclear experts tell CNN that the reactors are now almost certainly inoperable in the future.

As one physicist, Dr. Kenneth Bergeron, told CNN, "It's a very frightening situation. And we can only hope for the best."

Concerns Escalate Over Possible Plutonium Release at Fukushima Reactor (Examiner)

By Harold Saive
March 23rd, 2011 9:16 am ET

JAPAN: Concerns Escalate Over Possible Plutonium Release at Fukushima, unit 3 ReactorWednesday, March 23, 2011 8:34

Over the years, Japan's nuclear energy program has been infiltrated by organized crime with safeguards systematically eroded by influence money. Today, paper vouchers replace strict physical documentation where the chain of custody for nuclear fuels has been broken.

In a Four Corners interview, Damon Moglen revealed that Fukushima unit 3 reactor is currently loaded with up to 500 pounds of plutonium.

Japan was apparently stockpiling plutonium under the pretext of Mixed Oxide Fuel (MOX) in with capability to rapidly transform the MOX to nuclear weapons grade.

Such a transormation of MOX could turn Japan into a formidible nuclear power, overnight with a measured risk of breaking the Nuclear Proliferation Treaty (NPT).

3/21/2011 Four Corners Interviews with Damon Moglen, Richard Brainowski and Ziggy Switkowski.

If the smoke billowing from the Fukushima reactor 3, amongst other reactors, does indeed contain plutonium, then this nuclear crisis has exposed Japan and the world to a much more extreme danger than the one originally envisaged. If so, we all ought to know about it. There should be some more specific investigations in regard to the contents.

U.S. Military Leaders In Japan Say Water On Bases Safe To Drink (Stars and Stripes)

By Charlie Reed
March 24, 2011

YOKOTA AIR BASE, Japan -- Water at U.S. military bases in Japan is safe to drink, U.S. Forces Japan said Thursday as public concern grew over elevated radiation levels detected in water and food supplies in Tokyo in recent days.

The U.S. embassy in Tokyo said Thursday that pregnant women and children under the age of three in the city should only drink bottled water. The embassy warning cited

reports from the Tokyo Metropolitan Government that radioactive iodine levels exceeding consumable limits for children under 3 had been detected at a purification plant Wednesday.

While food and water is safe to consume at bases in Japan, the military has "enhanced our measures to safeguard food and water supplies on all our military installations in Japan," the USFJ statement read. "As an extra precaution, we have increased the frequency of water tests to daily to ensure the safety of our personnel and their families."

The extra water tests follow days of other precautionary measures, including the mandatory pick up of potassium iodide pills by all U.S. military personnel and their immediate dependents in Japan.

Yokota Air Base commander Col. Otto Feather said Wednesday that the water at the base was "delicious" and drinkable.

Water tests at Yokosuka have not found any dangerous levels of radiation, base commander Capt. David Owen said in a broadcast message on AFN Thursday morning.

Concerns about drinking water arose after Tokyo officials found radioactive iodine in the Tokyo water system.

Yokosuka Naval Base gets its water from the Yokosuka municipal supply, Owen said. The base tests water in 16 locations, including the Negishi and Ikego housing areas.

"There is no problem with our water," Owen said. "If there is, we would immediately let you know."

During a televised news conference Wednesday, Ei Yoshida, head of water purification for the Tokyo water department, told reporters that infants in Tokyo should not be given tap water to drink.

Officials found radioactive iodine levels at 210 becquerels per liter. Officials said that health risks begin at 100 becquerels per liter for infants and 300 becquerels for adults.

Certain Japanese products such as milk and spinach have been pulled off shelves en masse following reports of tainted supplies of those foodstuffs originating from Fukushima prefecture, where the runaway nuclear power plant continues to leak.

Japanese workers loaded trucks with boxes of bottled water to distribute across Tokyo Thursday after residents cleared store shelves following warnings that the city's tap water had elevated radiation, The Associated Press reported Thursday morning.

Radiation found in food, water and milk near Fukushima (Xinhua)

2011-03-24 10:22:42

BEIJING, March 24 (Xinhuanet) --The Japanese authorities have urged people to stop eating certain foods originating from the area near Fukushima. Unsafe radiation levels have been found in 11 types of vegetables grown near the nuclear plant, as well as in milk and water.

Although traces of radiation surpassing safety limits have already been found in milk and water around the Daiichi plant, officials insist there is no danger to humans and have urged the world not to over react.

Japanese Chief Cabinet Secretary Yukio Edano said, "Unfortunately, we are expecting this situation to last longer than expected, so in order to prevent any possible damage from an early stage, we have put a ban on shipping of radiation contaminated vegetables to reduce human contact with harmful substances."

At this small vegetable store in downtown Tokyo, vegetables grown in Ibaraki prefecture were still being sold, and shoppers say they are not overly worried.

Housewife Chizuko Saito said, "I think it should be fine if I wash it properly before eating, but if I can find spinach from a different prefecture, I may buy it instead."

Worsened by a widespread lack of understanding of the technicalities of radiation, public concern over the situation is high around the world and radioactive particles have been detected as far away as Iceland.

The U.S. Food and Drug Administration has announced it is stopping imports of milk, vegetables and fruit from four prefectures in Japan's northeast.

South Korea may be next and France this week asked the European Commission to look into harmonizing controls on radioactivity in imports from Japan.

Although there has been progress in restoring power to the Fukushima site 13 days after the accident, more time is needed to stabilize the reactors.

FUKUSHIMA OPINION

How we can reduce the risk of another Fukushima (WaPo)

By Matthew Bunn, Wednesday, March 23, 7:39 PM

In 2006, a National Academy of Sciences committee recommended two simple steps to prevent spent nuclear fuel from catching fire: putting old, cool fuel next to the new, hot fuel discharged from a reactor, and adding sprayers that could dispense water if the

cooling water in the pool was lost. But no such action has been taken, either in the United States or in Japan — where the most deadly danger at Fukushima nuclear plant since the recent earthquake and subsequent tsunami has been the risk that uncovered spent fuel in the storage pools would catch fire, spreading radioactive material miles downwind. Nor has much of the older spent fuel been moved out of pools into safer dry casks made of steel and concrete — another possibility to reduce the risk.

The radioactive steam that rose over Fukushima should be a searing reminder of the costs of failing to identify such dangers and fix them. A serious blow has been dealt to public confidence in the nuclear industry and its overseers.

Every country operating nuclear facilities needs to undertake an urgent review — by an independent international team, not by the companies that own the plants or the agencies that have long regulated them — of whether there are risk-reduction steps as compelling as those the academy recommended that have not been taken. (Indeed, another simple academy recommendation that was not followed was that a group independent of both the U.S. nuclear industry and its regulators should review the security of spent fuel pools.)

The European Union has announced that its member states will work together to review the safety of all E.U. reactors in the coming months. The rest of the world must do likewise — as well as invite separate teams to review security.

The risk is not just accidents but attacks. Al-Qaeda has repeatedly considered sabotaging nuclear facilities. The 2006 study focused primarily on the danger that terrorists might succeed in draining the water from a spent-fuel storage pool, the same outcome raising risks in Japan. Moreover, al-Qaeda has long sought to get stolen nuclear material to make a crude nuclear bomb — which government studies in the United States and elsewhere have repeatedly concluded a sophisticated group might be able to do if it got enough weapons-usable nuclear material.

Nuclear facilities around the world are much less prepared for security incidents than for accidents. While U.S. reactors are required to have armed guard forces, many reactors abroad — and even some sites with potential nuclear bomb material — have none. One senior U.S. nuclear official I spoke to last fall described security for most of the reactors he had visited abroad as "frightening." Everyone in the civilian nuclear industry is taught to focus on safety from day one, while on security, nuclear workers and managers might get a half-hour briefing once a year. All this needs to change.

At the nuclear security summit President Obama convened last spring, leaders from 47 countries agreed on the goal of securing all vulnerable nuclear materials worldwide within four years — but a great deal remains to be done to realize that ambition.

The International Atomic Energy Agency (IAEA) provides safety and security reviews for countries that request them — but it will need more money and additional experts to carry out these assessments on the scale required. It will take time for the IAEA to

assemble teams, and major obstacles are likely to include complacency, secrecy, sovereignty concerns and bureaucratic impediments.

As it outlines questions, it should start here:

l Why haven't operators of nuclear plants been required to rearrange the fuel in reactors and provide sprayers, as the academy recommended?

l Why was the Fukushima site required to have only eight hours of battery supply in case it lost power? Why are some U.S. reactors allowed to have only four?

l Why were the backup diesel generators down low, where they might be swamped by a tsunami, rather than up high?

l Why aren't reactors and sites with potential nuclear bomb material in all countries required to be protected against the kinds of attacks and theft attempts that terrorists and criminals have shown they have the capability to carry out?

l Shouldn't all such facilities be required to have on-site armed guards, capable of holding off an attack until off-site forces arrive?

The task is urgent. While the odds are against another accident occurring tomorrow — more than two decades elapsed between Chernobyl and Fukushima — no one knows when terrorists might choose to strike.

Ultimately, regular independent, international reviews should be the norm in nuclear operations worldwide. All countries must demonstrate that they are doing everything practicable to prevent the next Fukushima — or something far worse.

Matthew Bunn, an associate professor at the Harvard Kennedy School and a former adviser in the White House Office of Science and Technology Policy, is the author of "Securing the Bomb 2010: Securing All Nuclear Materials in Four Years."

Feelings Of 'Accept Pain, Don't Complain' In Japan (NPR)

Christopher Joyce | March 24, 2011

No country is more familiar with nuclear peril than Japan. The atomic bombs dropped on Hiroshima and Nagasaki in 1945, at the end of World War II, killed or irradiated hundreds of thousands of people, an event that dwarfs any nuclear incident since then.

One might think, then, that people in Japan would be traumatized by the calamity at the nuclear power complex in Fukushima. But the reality is more nuanced than that. From one generation to the next, even the most horrible events fade from cultural memory.

Isao Hashimoto, an artist in the city of Hakone, wants people to remember 1945.

"I have heard from my father [and] grandfather about the war — seriousness of war — and atomic bombs, so I think we should keep talking about this problem, especially toward the younger generation," Hashimoto says.

So Hashimoto created a very simple video — just a map of the world.

Starting in 1945 with the Hiroshima and Nagasaki bombs, it registers in chronological order every nuclear test explosion. One after another, each bomb shows up as a little red puff on the screen.

'Accept The Pain, Don't Complain'

Fear of radiation burrowed into Japanese culture. Godzilla, the movie monster that destroyed Tokyo, was the spawn of radioactive fallout, as were other cinema monsters to follow. On the positive side, animators created the helpful cartoon robot, Atom Boy, who uses science for peace.

That was fantasy, but now in Japan the radioactive emissions are real again — they've even reached Tokyo.

At a restaurant in Tokyo, Sukeyasu Yamamoto orders lunch. No one is ordering spinach these days — the government says crops to the north are contaminated. Yamamoto is a nuclear physicist, trained at Yale, now teaching in Tokyo. He knows both cultures and says the reaction to the nuclear accident can be described in a word:

"*Gaman* — it is to endure, accept the pain, don't complain," he says. Yamamoto says another phrase: *shikata ganai*. It means "it can't be helped."

In a sense, that's the situation here: Japan needs electricity, and there's little coal and no oil domestically. The government cast the country's lot with nuclear power, building 55 reactors that generate 35 percent of the country's electricity.

Little Connection Between Bombings And Fukushima Disaster

Yamamoto says many people here don't really associate the horrors of Hiroshima and Nagasaki with the crisis at the Fukushima nuclear reactor.

"The tsunami was more the atomic bomb effect of flattening the whole place," he says. "And the radiation is another disaster, which may be more hazardous in some ways, and long-lasting. But most people are not scientists, so they don't make that connection very easily."

In fact, Yamamoto says many of his students don't seem to know much about World War II and the bombings. He says people of *his* generation do remember. Two years ago, Yamamoto rediscovered the diaries he kept as a teenager during the war.

"These are the diaries starting from April 27, 1945," he says. "May 1: Today we heard about my father's death in action."

Sitting in an armchair at his tidy home in Tokyo, Yamamoto looks for an entry he made about the atomic bombs that America dropped on Aug. 6 and Aug. 9.

"This is Aug. 13," he reads. " 'Today a small aircraft came over, so that was more scary, because one plane can do it.' Because if I remember, there were only two planes over Hiroshima."

Focusing On Immediate Concerns

For sure, people near the damaged nuclear complex in Fukushima are worried about their health and their food supply. But farther away, many Japanese people are more devastated by the tsunami. Some find the fact that Americans are worried about a cloud of radiation rather odd.

"My youngest daughter lives in San Francisco," says Yoshiko Suzuki, a bereavement counselor in Tokyo. "She is scared to death and worries about me, like, 'Mommy, why don't you get out of Japan and come here?' "

There are others who don't share Suzuki's complacency about the goings on in Fukushima, like Seiji Arihara, a filmmaker whose animated movie, *Nagasaki 1945*, describes the bombing and a hospital in that city treating survivors.

"In my movie I wanted to give out a message that people, humans can't live with radiation — it's just not possible," Arihara says.

So far, there hasn't been a groundswell of anti-nuclear demonstrations. Japan has more immediate concerns. That becomes clear while sitting in a Tokyo office interviewing Arihara, when translator Koki Ishibashi's cell phone rings an alert.

"I think this is an earthquake — an earthquake in Fukushima," Ishibashi says.

The quake's epicenter is, again, right near the nuclear power complex.

Nuclear Energy and Weapons: Uncontrollable in Time and Space (HuffPo)

The earthquake and tsunami in Japan devastated a whole region. Radioactive emissions from the damaged nuclear reactors are very serious, and have already contaminated food and water, prompting a ban on food exports from four prefectures and a government warning not to give Tokyo tap water to babies. The crisis could impact human health and the environment on an even wider scale -- across Japan and around the globe.

Whether or not the brave technicians in Fukushima are successful in containing the bulk of the radiation in the six reactors, the message is clear: natural disasters and accidents will happen. If it can go wrong sooner or later it will go wrong, and Murphy's law and nuclear energy do not mix.

In Japan, the fear of radiation spreading is connected to the memory of the nuclear bombs dropped on Hiroshima and Nagasaki over 65 years ago. Over 100,000 people died from radiation exposure -- nearly as many as from the blast. The genetic effects continue down through the generations.

Japan's nuclear crisis has brought back to public consciousness the basic truth that the effects of nuclear disasters -- whether from nuclear energy or nuclear weapons -- are uncontrollable in time and space.

Current events at Fukushima remind us of the negligence of nuclear power companies in building nuclear power plants on earthquake fault lines or vulnerable coastlines. But they should also remind us of the even greater negligence of the nuclear weapon states in maintaining their arsenals of 20,000 nuclear weapons -- most with yields over 100 times greater than the Hiroshima and Nagasaki bombs, and many on hair trigger alert, ready to launch within minutes. Any accidental, unauthorized, inadvertent or intentional use today (or tomorrow) would have a catastrophic, widespread, unprecedented and unimaginable impact on humanity and the environment.

A recent statement released by international law experts from around the world, including former judges from the International Court of Justice, affirms that maintaining nuclear weapons and a readiness to use them is not only negligent, but given the dire consequences of any use, also against the law. The Vancouver Declaration on "Law's Imperative for the Urgent Achievement of a Nuclear-Weapon-Free World," notes that the use of nuclear weapons would be "contrary to the fundamental rules of international humanitarian law (laws governing use of force in wartime) forbidding the infliction of indiscriminate harm and unnecessary suffering."

In other words, during war one can attack military targets and personnel, but not civilians. One can inflict harm on military personnel, but not such harm that would last long after the conflict is over. In addition, it is illegal even in wartime to inflict long-term and severe damage on the environment. Nuclear weapons, with their uncontrollable blast, heat and radiation effects, could not be used without violating these laws. And if such an act is illegal, the *threat* to commit such an act is also illegal.

Thus, in 1996 the International Court of Justice (a. k. a. the World Court) determined that the threat or use of nuclear weapons would be generally illegal, and that there is an unconditional obligation to achieve the complete prohibition and elimination of nuclear weapons through good-faith negotiations.

Since then, failure of the nuclear weapon states to comply has had predictably disastrous results for global proliferation and nuclear danger, convincing India, Pakistan and North

Korea that if they can't cajole the nuclear weapon states to give up nuclear weapons, then they might as well join their nuclear club. Others are bound to follow suit.

Until recently, states that wanted to hang onto their nuclear arsenals and their policies to use them argued that such policies were legal by misrepresenting a clause in the Court's opinion. That clause stated that the ICJ could not reach a conclusion on the legality of threat or use in the extreme circumstance of self-defense when the very survival of a state is at stake. So by stating that they would only use nuclear weapons in "extreme circumstances," the nuclear weapon states avoided applying the general ruling of illegality to their nuclear weapons policies.

But they can no longer avoid this. In May 2010, the parties to the nuclear Non-Proliferation Treaty (NPT), which includes the major nuclear weapon states, affirmed that any use of nuclear weapons would cause catastrophic humanitarian consequences, and that states must comply with international humanitarian law "at all times." They also agreed that all states must make special efforts to build the framework for a nuclear weapons-free world, citing the United Nations Secretary-General's proposal for negotiations on a global nuclear abolition treaty.

Now governments have to choose: hang onto their nuclear arsenals, or uphold the rule of law to which they have agreed. They can't do both. We all know which will make us safer. Nuclear possession is a recipe for proliferation and corrosive to international humanitarian law, which, as the Vancouver Declaration says, "is essential to limiting the effects of armed conflicts, large and small, around the world."

The nuclear crisis in Japan has debunked the claims of authorities that their nuclear power stations, built with inferior containment on fault-lines, are safe and fully under control. Before something goes horribly wrong on the weapons front, we must also debunk the claims of the nuclear weapon states that nuclear weapons are safe as long as they are in the 'right hands.'

States including the US take the position that we should just trust them to take small steps towards nuclear disarmament sometime in an indefinite future. That's like trusting the nuclear power industry to police itself and voluntarily phase itself out in deference to public safety. It simply won't happen without a global prohibition enforced by the rest of the world, like the one outlined in the draft treaty circulated by the UN Secretary-General.

In 1996, the President of the International Court of Justice called nuclear weapons an "absolute evil." We have already applied international humanitarian law to other inhumane and indiscriminate (read "evil") weapons such as landmines and cluster munitions in order to achieve global treaties for banning them. Now it's time for absolute prohibition and elimination of nuclear weapons.

No Radiation Threat Says Media: Reporters Pulled out of Japan (Dissident Voice)

Meanwhile, Frightened Investors in USA and Europe Seek Protection
by Keith Harmon Snow / March 23rd, 2011

Reporting about the nuclear crises in Japan and around the world is getting curiouser and curiouser. Western media are heavily downplaying the threat of radiation in what amounts to an Alice in Wonderland fable of disinformation straight out of the rabbit hole.

Worried about profits and the the destabilization of the YEN and NIKKEI Index, the media is doing damage control to help keep people from flooding out of Japan and further destabilizing the Japanese economy. Given the evidence, the history of disasters and epidemics of disease, reporting that downplays Japan's radiation threat is criminal.

Meanwhile, back in the U.S.A., frightened investors are seeking protections and insurances from industry and government. Wall Street is worried. This is getting curiouser and curiouser.

For example, on 20 March 2011, CNN ran a video story, "Facts whisper, fears scream during crises," where their experts proclaim that fears of radiation are unfounded and misinformation abounds. CNN's latest nuclear expert — Dan Polansky — calls this *radiophobia*: an irrational fear of radiation with no basis in fact. Even for the Japanese nuclear workers who are closest to the Fukushima hot zone, says CNN reporter Stan Grant, "radiation might make people sick, but it won't kill them."

Meanwhile, CNN describes Dan Polansky as a "nuclear expert", who "specializes in weapons of mass destruction and knows about radiation." What they don't tell us is that Polansky works for the Georgia (USA) Department of Community Health, he studied at the **Lawrence Livermore National Laboratory** (LLNL) and the Idaho National Engineering Laboratory (INEL), and is a recent graduate of Radiological Emergency Planning at the Harvard School of Public Health.

Pretty good credentials, no doubt. Must be telling the truth. [Quack.]

However, LLNL and INEL are two of the Department of Energy and Department of Defense top classified weapons laboratories, both also SUPERFUND sites of massive toxic nuclear waste. Work at national laboratories like INEL and LLNL requires high-level national security clearances: it looks like Daniel Polansky is another spook.

The Harvard School of Public Health (HSPH) has produced some studies that show some incidence of disease around the Yankee Rowe reactor (Rowe, MA, U.S.A.), which is now decommissioned; but they have also helped to whitewash nuclear (and other) risks of modern day society.

This is indeed very curious.

The Harvard Center for Risk Analysis (HCRA) was founded by John D. Graham and specializes in advocating forms of risk-assessment widely criticized by community groups and legitimate health professionals. The Center gained funds from both industry and government agencies, including nuclear interests like: General Electric, the Edison Electric Institute, Electric Power Research Institute, New England Electric System (at least five nukes on the New England power grid) and Westinghouse Electric. GE and Westinghouse are two of the U.S.A.'s biggest nuke companies, and EPRI is a pro-nuke think tank that has produced propaganda about nukes for more than four decades.

Harvard School of Public Health and the Harvard Center for Risk Analysis are not the same thing. Harvard School of Public Health supports the nuclear industry and helps to downplay radiation threats at many levels. However, Harvard Center for Risk Analysis is an industry front producing junk science — spurious information posited as science — and debunking truth everywhere in the corporate media.

Looking a little deeper down the rabbit hole we find, for one curious example, that David Ropeik is an Instructor in the Harvard University School of Continuing Education, Environmental Management program. Ropeik is also a former affiliate at the Harvard Center for Risk Assessment (which he says he left in 2004).

According to his own public relations biography advertised on the BAYER CropScience web page [Bayer is the big German multinational pharmaceutical corporation], Ropeik has also worked closely with the Harvard School of Public Health (HSPH) and he "has been interviewed on risk perception by *ABC Nightline*, National Public Radio, NBC *Dateline*, ABC *20/20*, Fox News, CNN, CNN International, BBC, CBC, CNBC, Voice of America, and dozens of regional radio stations nationwide."

He has also "taught courses on media coverage of risk issues at the Harvard School of Public Health, the Kennedy School of Government, the Neiman Fellowship Program at Harvard, the Knight Science Journalism Fellowship program at MIT, Boston University's Program in Science Journalism, the Emerson College program in Health Communication, and to the National Association of Science Writers, the Council for the Advancement of Science Writers, and the Society of Environmental Journalists."

A long-time member of the Society of Environmental Journalists, David Ropeik is now a private consultant in Risk Perception, Risk Communication, and Risk Management with Ropeik & Associates, whose nuclear clients include Entergy Power Corporation (owns the dangerously unsafe Vermont Yankee Nuclear Power Station), Edison Electric Institute, the Electric Power Research Institute, the American Nuclear Society, the Egyptian Nuclear Authority, the International Atomic Energy Agency, the Nuclear Institute, the Massachusetts Department of Public Health (who did a study on the incidence of disease on the radiation 'pathways' from the Yankee Rowe Nuclear Power Station), The Veterans Board for Dose Reconstruction, Department of Defense, and etc., and etc., and etc.

"Risk is a subjective affair," reads the home page of Ropeik & Associates. "It's not just a matter of the facts, but also how those facts feel. Understanding why some risks feel more frightening, and some less, is essential for communicating about risk effectively, and for tackling the human behavioral aspects of overall risk management."

As far as the Society of Environmental Journalists, this is just another trade industry group, like any 'Society of Professional This-or-That', which maintains deep ties to industry and the media corporations that have censored and distorted the truth about radiation, nuclear weapons and nuclear power. For example, a look at their sponsors and foundation donors quickly leads to a large list of corporate interests, including nuclear corporations.

What a curious world we live in.

Given that there is "so little threat from radiation" in Japan, it is very curious that NBC pulled their entire news team out of Japan. Curiously, it seems that CNN's Anderson Cooper also pulled out of Japan — and who could blame him! — and is now reporting on Libya from somewhere else (Hong Kong?).

On March 20, 2011, Japanese Officials confirmed radiation food poisoning. "Chief Cabinet Secretary Yukio Edano said checks of milk from Fukushima prefecture, where the plant is located, and of spinach grown in Ibaraki, a neighbouring prefecture, surpassed limits set by the government... It was the government's first report of food being contaminated by radiation since the March 11 quake and tsunami unleashed the nuclear crisis."

Thousands of U.S. military families have also been evacuated from Japan under the U.S. Department of Defense 'voluntary evacuation' program initiated because of radiation concerns.

Meanwhile, on March 19, 2011 financial media began reporting that U.S. investors seeing the nuclear industry in Japan crash, burn and melt are frightened of Financial Losses due to Boring Utility Debt.

Curiouser and curiouser.

"Investors are seeking protection from a public backlash against nuclear power producers as the threat from earthquake-damaged reactors in Japan stokes calls by U.S. lawmakers to limit plants in this nation," reported *Bloomberg News*.

"Utility companies, typically considered a haven among credit investors because of their resilience in economic downturns, are being punished as Tokyo Electric Power Co. struggles to cool damaged reactors. Environmental groups want limits on U.S. nuclear plants, and Representative Edward Markey is seeking a moratorium on facilities in seismically active areas. Nuclear-power executives say the nation's reactors can withstand such disasters."

Behind the scenes, corporations and money markets managers and futures investors are swapping debt portfolios and jockeying to maximize profits and minimize losses.

While the people of Japan suffer the fate of massive radiation emissions — 'leaks' is another term invested by the industry and used by media to downplay the invisible radiation dispersed near any reactor — the utility companies are portrayed as the victims. Utility companies are "being punished" and "investors seeking protection" are now the victims.

Curiouser, and curiouser, and curiouser.

The inclusion of any article does not imply DOE or NNSA endorsement of the contents.
Articles are not written by DOE or NNSA personnel, and NNSA cannot vouch for their accuracy.

From: Weber, Michael
Sent: Thursday, March 24, 2011 8:32 AM
To: ET05 Hoc; ET07 Hoc; RST01 Hoc; PMT01 Hoc; OST02 HOC; LIA06 Hoc; LIA08 Hoc
Subject: FYI - [Fukushima Daiichi] Status on spent fuel pools (as of March 17th at 11AM).
Attachments: 1F4 Pool Location.pdf; 1F5 Pool Cooling Years.pdf; 1F5 Pool Location.pdf; 1F6 Pool Cooling Years.pdf; 1F6 Pool Location.pdf; 1F Common Pool Cooling Years-1.pdf; 1F Common Pool Cooling Years-2.pdf; 1F Common Pool Cooling Years-3.pdf; 1F Common Pool Cooling Years-4.pdf; 1F Common Pool Location -1.pdf; 1F Common Pool Location -2.pdf; 1F Common Pool Location -3.pdf; 1F Common Pool Location -4.pdf; 1F Common Pool Location All.pdf; 1F Fuel Data (Burnup Cooling Duration）.xls; 1F1 Pool Cooling Years.pdf; 1F1 Pool Location.pdf; 1F2 Pool Cooling Years.pdf; 1F2 Pool Location.pdf; 1F3 Pool Cooling Years.pdf; 1F3 Pool Location.pdf; 1F4 Pool Cooling Years.pdf

-----Original Message-----
From: Sheron, Brian
Sent: Thursday, March 24, 2011 8:03 AM
To: HOO Hoc
Cc: Weber, Michael
Subject: FW: [Fukushima Daiichi] Status on spent fuel pools (as of March 17th at 11AM).

Please forward to RST Director.

-----Original Message-----
From: Bisconti, Giulia [mailto:Giulia.Bisconti@nuclear.energy.gov]
Sent: Saturday, March 19, 2011 7:40 PM
To: Schwab, Patrick; Kelly, John E (NE)
Cc: McGinnis, Edward; Gillespie, Mary
Subject: Fw: [Fukushima Daiichi] Status on spent fuel pools (as of March 17th at 11AM).

Fyi

----- Original Message -----
From: Masayuki Yamamoto <yamamoto.masayuki@tepco.co.jp>
To: Masayuki Yamamoto <yamamoto.masayuki@tepco.co.jp>; Bisconti, Giulia; 'Tateiwa, Kenji' <tateiwa.kenji@tepco.co.jp>; Miller, Tom; Gillespie, Mary; McGinnis, Edward; Peko, Damian; Schwab, Patrick; Kelly, John E (NE)
Cc: 松尾　建次 <matsuo.kenji@tepco.co.jp>; Nagano <yuichi.nagano@tepco.co.jp>
Sent: Sat Mar 19 19:27:18 2011
Subject: Re: [Fukushima Daiichi] Status on spent fuel pools (as of March 17th at 11AM).

Please see attached files for your assessment.
"IF (Irradiated Fuel)" in 1F4 Pool Cooling Yeas.pdf indicates fuels to be reloaded after the refueling outage at the time of the earthquake.

Masayuki Yamamoto

PPP/479

Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
Phone:202-457-0790
E-mail:yamamoto.masayuki@tepco.co.jp

----- Original Message -----
From: Masayuki Yamamoto <mailto:yamamoto.masayuki@tepco.co.jp>
To: Bisconti, Giulia <mailto:Giulia.Bisconti@nuclear.energy.gov> ; 'Tateiwa, Kenji' <mailto:tateiwa.kenji@tepco.co.jp> ; Miller, Tom <mailto:TOM.MILLER@nuclear.energy.gov> ; Gillespie, Mary <mailto:Mary.Gillespie@Nuclear.Energy.gov> ; McGinnis, Edward <mailto:Edward.McGinnis@Nuclear.Energy.Gov> ; Peko, Damian <mailto:Damian.Peko@Nuclear.Energy.gov> ; Schwab, Patrick <mailto:Patrick.Schwab@nuclear.energy.gov>
Cc: 古塚　伸一 <mailto:shinichi.furutsuka@tepco.co.jp> ; 古谷 隆志 <mailto:furuya.takashi@tepco.co.jp> ; Masanori MOROZIMI <mailto:morozumi.masanori@tepco.co.jp> ; 唐澤　利史 <mailto:karasawa.toshifumi@tepco.co.jp> ; ikuo.nishimura@tepco.co.jp ; 松本 純 <mailto:matsumoto.j@tepco.co.jp> ; TAKEDA.KAZUHITO@tepco.co.jp ; koyabu.hitoshi@tepco.co.jp ; otani.tsuyoshi@tepco.co.jp ; 福田 将吾 <mailto:f.shogo@tepco.co.jp> ; fujitani.keiichi@tepco.co.jp ; TEPCO Hiroo Yamamoto <mailto:yamamoto.hiroo@tepco.co.jp> ; 長谷川 和弘 <mailto:hiro.hasegawa@tepco.co.jp> ; 伊藤　裕太 <mailto:ito.yuta@tepco.co.jp> ; 菊池　遼太郎 <mailto:kikuchi.ryotaro@tepco.co.jp> ; 小笠原　健二 <mailto:ogasahara.kenji@tepco.co.jp> ; 新井　卓 <mailto:arai.taku@tepco.co.jp> ; 中村　真哉 <mailto:nakamura.shiny@tepco.co.jp> ; 中村　美帆子 <mailto:nakamura.mihoko@tepco.co.jp> ; 木村　正和 <mailto:masakazu.kimura@tepco.co.jp> ; 鈴木　満康 <mailto:suzuki.mitsuyasu@tepco.co.jp> ; 古川　健太郎 <mailto:FURUKAWA.Kentarou@tepco.co.jp> ; 曽野　明久 <mailto:Sono.Akihisa@tepco.co.jp> ; 岡　リッチ <mailto:rich.oka@tepco.co.jp> ; 小島　英夫 <mailto:kojima.hideo@tepco.co.jp> ; 原田　克也 <mailto:Harada.Katsuya@tepco.co.jp> ; 秋本　展秀 <mailto:akimoto.nobuhide@tepco.co.jp> ; 地引　嘉彦 <mailto:jibiki.y@tepco.co.jp> ; 上野　徹 <mailto:ueno.toru@tepco.co.jp> ; 市川　善隆 <mailto:ichikawa.yoshitaka@tepco.co.jp> ; 堤　直己 <mailto:naoki.tsutsumi@tepco.co.jp> ; 西村　冬彦 <mailto:nishimura.fuyuhiko@tepco.co.jp> ; 矢島　聡 <mailto:satoshi.yajima@tepco.co.jp> ; 川野　泰 <mailto:y.kawano@tepco.co.jp> ; 宮崎　輝 <mailto:miyazaki.teru@tepco.co.jp> ; 丸山　浩二 <mailto:maruyama.kouji@tepco.co.jp> ; 酒井　敦正 <mailto:sakai.atsumasa@tepco.co.jp> ; 幸坂　直樹 <mailto:kosaka.naoki@tepco.co.jp> ; 為井　学 <mailto:tamei.manabu@tepco.co.jp> ; 仰木　佐和子 <mailto:ohgi.sawako@tepco.co.jp> ; 神成　浩次 <mailto:kannari.koji@tepco.co.jp> ; 萩尾　栄治 <mailto:HAGIO.E@tepco.co.jp> ; 永井　義一 <mailto:yoshikazu.nagai@tepco.co.jp> ; 阪本　敏康 <mailto:sakamoto.toshiyasu@tepco.co.jp> ; 南井　享 <mailto:minamii.takashi@tepco.co.jp> ; 中山　晋介 <mailto:n.shinsuke@tepco.co.jp> ; 松田　健 <mailto:matsuda.ken@tepco.co.jp> ; 伊藤　公宏 <mailto:ito.kimihiro@tepco.co.jp> ; 安橋　正隆 <mailto:ambashi.masataka@tepco.co.jp> ; 西岡　宏晃 <mailto:nishioka.hiroaki@tepco.co.jp> ; 松下　大輔 <mailto:Daisuke.Matsushita@tepco.co.jp> ; 小西　信二 <mailto:konishi.shinji@tepco.co.jp> ; 渡邊　裕一 <mailto:watanabe.yuuichi@tepco.co.jp> ; 大久保　信明 <mailto:OKUBO.N@tepco.co.jp> ; Masato Muto <mailto:muto.mst@tepco.co.jp> ; 川上 <mailto:kawakami.sayaka@tepco.co.jp> ; 畠山　徹也 <mailto:hatakeyama.tetsuya@tepco.co.jp> ; ishii.katsuhiro@tepco.co.jp ; endo.jun@tepco.co.jp ; shinichi.yoshida@tepco.co.jp ; watanabe.yoshinori@tepco.co.jp ; matsuo.kenji@tepco.co.jp ; yuichi.nagano@tepco.co.jp ; 中嶋 まどか <mailto:nakashima.madoka@tepco.co.jp> ; 田口 祥一 <mailto:s.taguchi@tepco.co.jp> ; Tomomi Akita TEPCO <mailto:akita.tomomi@tepco.co.jp> ; 岩田　健吾 <mailto:iwata.kengo@tepco.co.jp> ; 馬場　彰 <mailto:baba.akira@tepco.co.jp> ; 今泉　佳章 <mailto:yoshi.imaizumi@tepco.co.jp> ; 大嶋　潤 <mailto:oshima.jun@tepco.co.jp> ; 北島　多佳子 <mailto:kitajima.takako@tepco.co.jp> ; 久玉　敏郎 <mailto:Kudama.Toshiro@tepco.co.jp>
Sent: Saturday, March 19, 2011 5:48 PM

Subject: Re: [Fukushima Daiichi] Status on spent fuel pools (as of March 17th at 11AM).

Dear Giulia,

I have requested information on the fuel layout in the pool
and my colleagues in corporate office started gathering data.
Necessary data will be available soon.

Regards,
Masayuki Yamamoto

Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
Phone:202-457-0790
E-mail:yamamoto.masayuki@tepco.co.jp

----- Original Message -----
From: Bisconti, Giulia <mailto:Giulia.Bisconti@nuclear.energy.gov>
To: 'Tateiwa, Kenji' <mailto:tateiwa.kenji@tepco.co.jp> ; Miller, Tom <mailto:TOM.MILLER@nuclear.energy.gov> ; Gillespie, Mary <mailto:Mary.Gillespie@Nuclear.Energy.gov> ; McGinnis, Edward <mailto:Edward.McGinnis@Nuclear.Energy.Gov> ; Peko, Damian <mailto:Damian.Peko@Nuclear.Energy.gov> ; Schwab, Patrick <mailto:Patrick.Schwab@nuclear.energy.gov>
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Sent: Saturday, March 19, 2011 4:52 PM

Subject: RE: [Fukushima Daiichi] Status on spent fuel pools (as of March 17th at 11AM).

Dear Kenji:

Can you kindly help answer this question for our experts? The specific arrangement of the spent fuel in the Unit 4 pool will affect our estimates of the peak temperature in the pool. We appreciate your precious time.

Giulia

From: Schwab, Patrick

Sent: Friday, March 18, 2011 6:41 PM

To: Peko, Damian

Cc: Schwab, Patrick

Subject: Fukushima spent fuel pools

Damian,

I am working on the DOE Office of Nuclear Energy's response team, under John Kelly. Do you have information from TEPCO on how they arranged the spent fuel in the pools before the earthquake? In particular, did they store all the hotter fuel elements close to each other? Or did they spread them out, with older, cooler fuel assemblies stored in between the hotter fuel assemblies? We are especially interested in the Unit 4 pool, of course.

Thank you for your help.

Pat

Patrick R. Schwab, Ph.D.

Office of Nuclear Energy

Department of Energy

301-903-8186

Room E-479 Germantown Bldg.

patrick.schwab@nuclear.energy.gov

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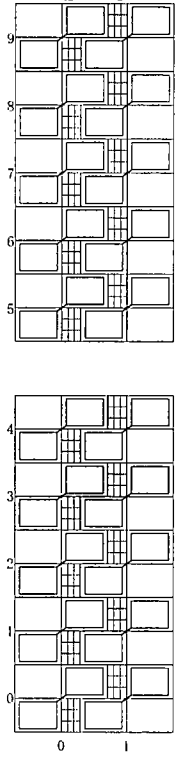

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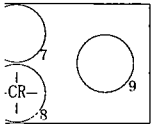

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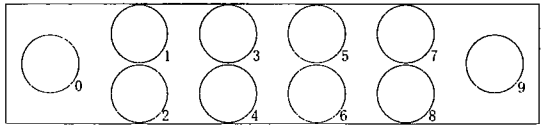

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F4ABN	F4ABN	F4AAN	F4ABN	F4ABN	F4AAN	F4AAN	F4ABN	F4AAN	F4AAN	
15	28	77	27	16	78	17	9	5	6	

0	1	2	3	4	5	6	7	8	9	
F4AAN	F4AAN	F4AAN	F4ABN	F4AAN	F4AAN	F4AAN	F4AAN	F4AAN	F4AAN	
74	79	73	10	18	69	7	75	19	80	
F4AAN	F4AAN	F4AAN	F4S	F4S	F4AAN	F4AAN	F4ABN	F4ABN	F4AAN	
70	76	8	54	4	20	1	12	11	71	30
F4AAN	F4AAN	F4ABN	F4AAN	F4ABN	F4ABN	F4AAN	F4ABN	F4ABN	F4ABN	
2	72	18	3	22	17	4	19	21	20	

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23	38	24	5	33	13	34	37	35	38	
F4S	F4ABN	F4N	F4ABN	F4ABN	F4ABN	F4ABN	F4ABN	F4ABN	F4ABN	
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F4ABN	F4ABN	F4ABN	F4ABN	F4ABN	F4N	F4N	F4N	F4N	F4ABN	
32	47	48	42	50	54	49	60	16	49	

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38	27	32	41	53	54	57	43	55	58	
F4ABN	F4ABN	F4ABN	F4ABN	F4ABN	F4ABN	F4ACN	F4ACN	F4ACN	F4ACN	
51	52	60	56	44	59	11	12	9	10	28
F4ABN	F4ABN	F4ABN	F4ABN	F4ACN	F4RN	F4ACN	F4ACN	F4ACN	F4ACN	
61	64	62	63	14	65	15	16	13	5	

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F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	
7	6	8	20	19	17	18	41	42	43	

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F4UN	F4UN	F4UN	F4UN						SBG	
141	136	66	64							
F4AAN	F4AAN	F4AAN	F4AAN	*	*	*	*	*	*	
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F4ADN	F4ADN	F4ADN	F4ADN	*	*	*	*	*		45
1	2	3	4	DF	DF	DF	DF	DF	DF	

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F4ADN	F4ADN	F4ADN	F4ADN	F4ABN	F4AAN	F4AAN	F4AAN	*		
5	6	7	8	5	68	58	31	DF	DF	
F4ADN	F4ADN	F4ADN	F4ADN	F4AAN	F4AAN	F4AAN	F4ABN			
9	10	11	12	53	32	11	6			
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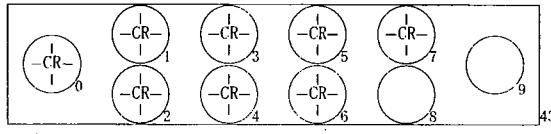

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23	24	25	26	27	28					
F4ADN	F4ADN	F4ADN	F4ADN	F4ADN	F4ADN					
29	30	31	32	33	34					42

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F4ADN	F4ADN	F4ADN	F4ADN	F4ADN	F4ADN	F4ACN	F4ACN	F4ACN	F4ACN	
35	36	37	38	39	40	57	58	59	60	
F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	
61	62	63	64	65	66	67	68	69	70	
F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	
71	72	73	74	75	76	77	78	79	80	

0	1	2	3	4	5	6	7	8	9	
F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	
81	82	83	84	85	86	87	88	89	90	
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71	72	73	74	75	76	77	78	79	80	

0	1	2	3	4	5	6	7	8	9	
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F4ADN	F4ADN	F4ADN	F4ADN	F4ADN	F4ADN	F4ADN	F4ADN	F4ADN	F4ADN	
101	102	103	104	105	106	107	108	109	110	

0	1	2	3	4	5	6	7	8	9	
F4R	F4R	F4R	F4R	F4P	F4P	F4P	F4ACN	F4ACN	F4ACN	
43	28	58	13	146	138	122	3	2	1	
F4P	F4P	F4P	F4P	F4R	F4ABN	F4S	F4ABN	F4ABN	F4ABN	
44	104	74	14	35	81	15	82	83	84	
F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4ACN	F4P	F4P	
26	28	27	25	30	31	29	32	62	55	

0	1	2	3	4	5	6	7	8	9	
F4N	F4P	F4P	F4P	F4P	F4P	F4P	F4P	F4N	F4P	F4P
55	31	43	86	48	63	68	50	87	64	
F4P	F4P	F4P	F4NN	F4N	F4P	F4P	F4P	F4P	F4P	
49	54	45	31	103	105	114	109	4	27	
F4P	F4P	F4P	F4P	F4P	F4N	F4P	F4N	F4P	F4P	
107	8	108	26	91	33	115	26	100	5	

0	1	2	3	4	5	6	7	8	9	
F4P	F4N	F4P	F4NN	F4N	F4ACN	F4P	F4ACN	F4P	F4ACN	
23	36	6	15	102	47	128	46	152	48	
F4ACN	F4P	F4P	F4P	F4ABN	F4P	F4P	F4P	F4P	F4ABN	
45	148	144	136	97	151	124	132	149	99	
F4P	F4P	F4P	F4ABN	F4P	F4P	F4ABN	F4ACN	F4P	F4ACN	
141	125	127	100	135	140	98	21	133	22	

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F4ACN	F4P	F4S	F4R	F4RN	F4ACN	F4ABN	F4ABN	F4ABN	F4ABN	
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F4VN	F4WN	F4WN	F4WN	F4UN	F4VN	F4WN	F4VN	F4WN	F4VN	
123	95	93	80	49	122	72	60	96	126	53
F4WN	F4VN	F4VN	F4VN	F4VN	F4VN	F4VN	F4VN	F4VN	F4WN	
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F4WN	F4VN	F4VN	F4WN	F4VN	F4VN	F4VN	F4VN	F4VN	F4VN	
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76	14	62	52	47	48	50	86	63	64	52
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F4TN	F4UN	F4UN	F4UN	F4UN	F4UN	F4UN	F4UN	F4UN	F4UN	
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133	137	58	138	86	132	30	25	48	23	50
F4TN	F4TN	F4S	F4S	F4RN	F4RN	F4S	F4S	F4S	F4S	
73	50	98	73	63	30	66	91	16	20	

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F4TN	F4UN	F4TN	F4UN	F4S	F4S	F4S	F4RN	F4S	F4S	
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F4S	F4S	F4R	F4S	F4S	F4S	F4S	F4S	F4S	F4RN	
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F4VN	F4R	F4RN	F4RN	F4S	F4S	F4S	F4R	F4S	F4S	
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F4S	F4S	F4S	F4RN	F4R						
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92	2	3
F4P	F4P	F4
71	11	7
F4UN	F4P	F4
92	93	5

0	1	2
F4UN	F4K	F4
31	166	9
F4LN	F4P	F4
24	35	10
F4LN	F4P	F4
47	84	9

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F4N	F4N	F4
6	28	9
F4P	F4P	F4
37	7	8
F4N	F4NN	F4
99	37	9

0	1	2
F4P	F4R	F4
28	72	68
F4RN	F4RN	F4
22	10	1
F4N	F4P	F4
48	96	66

0	1	2
F4P	F4TN	F4
39	6	69
F4M	F4M	F4
135	107	14
F4P	F4P	F4
139	147	13

0	1	2
F4TN	F4TN	F4
45	53	4
F4RN	F4TN	F4
66	91	7
F4R	F4RN	F4
63	54	7

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F4TN	F4TN	F4
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F4TN	F4TN	F4
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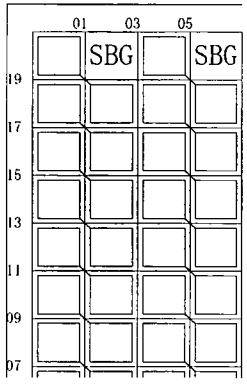

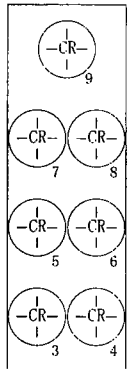

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3				6						

C

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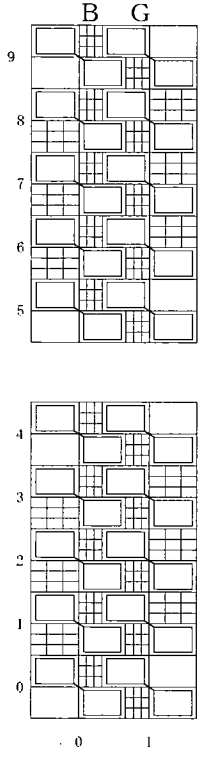
B G



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F

| | | |

Unit	Fuel ID	Shutdown Date	Earthquake Date	Cooling Duration (Days)	Cooling Duration (Yeas)	Burnup
				13845 351 4034.56507	MAX= MIN= AVE=	42825 3759 33292.3767
1F1POOL	TX131	1974/9/15	3/11/2011	13326	36.51	14213
1F1POOL	TXA53	1978/9/1	3/11/2011	11879	32.55	9439
1F1POOL	TXA44	1974/9/15	3/11/2011	13326	36.51	5593
1F1POOL	F1R24	2002/10/26	3/11/2011	3058	8.38	36474
1F1POOL	F1T18	2006/12/28	3/11/2011	1534	4.20	40036
1F1POOL	F1T74	2006/12/28	3/11/2011	1534	4.20	40402
1F1POOL	F1T75	2006/12/28	3/11/2011	1534	4.20	40346
1F1POOL	F1T88	2010/3/25	3/11/2011	351	0.96	40772
1F1POOL	F1U75	2008/10/18	3/11/2011	874	2.39	40023
1F1POOL	TX349	1978/9/1	3/11/2011	11879	32.55	19597
1F1POOL	TX402	1974/9/15	3/11/2011	13326	36.51	13422
1F1POOL	TX96	1973/4/14	3/11/2011	13845	37.93	9147
1F1POOL	F1SN20	2006/12/28	3/11/2011	1534	4.20	39046
1F1POOL	F1T39	2006/12/28	3/11/2011	1534	4.20	39439
1F1POOL	F1T9	2008/10/18	3/11/2011	874	2.39	40942
1F1POOL	F1T69	2008/10/18	3/11/2011	874	2.39	41064
1F1POOL	F1T81	2010/3/25	3/11/2011	351	0.96	41537
1F1POOL	TX157	1978/9/1	3/11/2011	11879	32.55	14215
1F1POOL	TXA31	1974/9/15	3/11/2011	13326	36.51	5234
1F1POOL	F1R19	2002/10/26	3/11/2011	3058	8.38	36478
1F1POOL	F1SN26	2006/12/28	3/11/2011	1534	4.20	39425
1F1POOL	F1T11	2008/10/18	3/11/2011	874	2.39	40931
1F1POOL	F1T19	2006/12/28	3/11/2011	1534	4.20	40015
1F1POOL	F1T20	2006/12/28	3/11/2011	1534	4.20	39953
1F1POOL	F1T55	2008/10/18	3/11/2011	874	2.39	41442
1F1POOL	F1T70	2006/12/28	3/11/2011	1534	4.20	38754
1F1POOL	F1U32	2008/10/18	3/11/2011	874	2.39	41039
1F1POOL	F1V25	2008/10/18	3/11/2011	874	2.39	41273
1F1POOL	TX196	1973/4/14	3/11/2011	13845	37.93	9761
1F1POOL	TX24	1974/9/15	3/11/2011	13326	36.51	13462
1F1POOL	TX77	1976/8/17	3/11/2011	12624	34.59	16205
1F1POOL	F1R23	2002/10/26	3/11/2011	3058	8.38	36426
1F1POOL	F1T4	2008/10/18	3/11/2011	874	2.39	39570
1F1POOL	F1T80	2010/3/25	3/11/2011	351	0.96	38898
1F1POOL	F1U3	2010/3/25	3/11/2011	351	0.96	40771
1F1POOL	TX225	1974/9/15	3/11/2011	13326	36.51	14289
1F1POOL	F1R18	2002/10/26	3/11/2011	3058	8.38	36515
1F1POOL	F1S20	2006/12/28	3/11/2011	1534	4.20	39255
1F1POOL	F1S35	2006/12/28	3/11/2011	1534	4.20	39127
1F1POOL	F1T67	2006/12/28	3/11/2011	1534	4.20	39794
1F1POOL	F1U52	2010/3/25	3/11/2011	351	0.96	39637
1F1POOL	F1U72	2008/10/18	3/11/2011	874	2.39	39713
1F1POOL	TX19	1974/9/15	3/11/2011	13326	36.51	15733
1F1POOL	F1SN25	2006/12/28	3/11/2011	1534	4.20	39274
1F1POOL	F1T10	2006/12/28	3/11/2011	1534	4.20	38773
1F1POOL	F1T71	2006/12/28	3/11/2011	1534	4.20	38757
1F1POOL	F1T84	2010/3/25	3/11/2011	351	0.96	41531
1F1POOL	F1U23	2010/3/25	3/11/2011	351	0.96	39795

1F1POOL	F1U24	2010/3/25	3/11/2011	351	0.96	39652
1F1POOL	F1U59	2008/10/18	3/11/2011	874	2.39	39991
1F1POOL	F1U77	2010/3/25	3/11/2011	351	0.96	40684
1F1POOL	TX167	1974/9/15	3/11/2011	13326	36.51	13082
1F1POOL	TX376	1974/9/15	3/11/2011	13326	36.51	15040
1F1POOL	F1SN19	2006/12/28	3/11/2011	1534	4.20	38996
1F1POOL	F1T76	2006/12/28	3/11/2011	1534	4.20	40393
1F1POOL	F1U18	2010/3/25	3/11/2011	351	0.96	40294
1F1POOL	F1U36	2008/10/18	3/11/2011	874	2.39	39491
1F1POOL	F1U46	2010/3/25	3/11/2011	351	0.96	42756
1F1POOL	F1U6	2006/12/28	3/11/2011	1534	4.20	41123
1F1POOL	F1V2	2010/3/25	3/11/2011	351	0.96	42335
1F1POOL	TX192	1974/9/15	3/11/2011	13326	36.51	15519
1F1POOL	TX232	1973/4/14	3/11/2011	13845	37.93	6722
1F1POOL	F1U30	2008/10/18	3/11/2011	874	2.39	41135
1F1POOL	F1V14	2010/3/25	3/11/2011	351	0.96	41944
1F1POOL	F1V7	2010/3/25	3/11/2011	351	0.96	40981
1F1POOL	TX202	1974/9/15	3/11/2011	13326	36.51	13145
1F1POOL	TX222	1974/9/15	3/11/2011	13326	36.51	15240
1F1POOL	TX273	1973/4/14	3/11/2011	13845	37.93	9762
1F1POOL	TX372	1978/9/1	3/11/2011	11879	32.55	19858
1F1POOL	F1H6	1989/5/25	3/11/2011	7960	21.81	34965
1F1POOL	F1S22	2006/12/28	3/11/2011	1534	4.20	39497
1F1POOL	F1SN28	2006/12/28	3/11/2011	1534	4.20	39210
1F1POOL	F1SN39	2006/12/28	3/11/2011	1534	4.20	38189
1F1POOL	F1U50	2010/3/25	3/11/2011	351	0.96	39623
1F1POOL	TX104	1973/4/14	3/11/2011	13845	37.93	9881
1F1POOL	F1SN18	2006/12/28	3/11/2011	1534	4.20	39123
1F1POOL	F1T15	2008/10/18	3/11/2011	874	2.39	40550
1F1POOL	F1T24	2008/10/18	3/11/2011	874	2.39	39968
1F1POOL	F1T54	2008/10/18	3/11/2011	874	2.39	41579
1F1POOL	F1U40	2010/3/25	3/11/2011	351	0.96	38663
1F1POOL	F1V13	2010/3/25	3/11/2011	351	0.96	41960
1F1POOL	TX187	1978/9/1	3/11/2011	11879	32.55	18826
1F1POOL	F1T1	2008/10/18	3/11/2011	874	2.39	39616
1F1POOL	F1T16	2008/10/18	3/11/2011	874	2.39	40645
1F1POOL	F1T82	2010/3/25	3/11/2011	351	0.96	41588
1F1POOL	F1U16	2010/3/25	3/11/2011	351	0.96	39172
1F1POOL	F1U45	2010/3/25	3/11/2011	351	0.96	42811
1F1POOL	F1U67	2010/3/25	3/11/2011	351	0.96	36878
1F1POOL	F1E35	1985/3/25	3/11/2011	9482	25.98	24212
1F1POOL	F1S3	2006/12/28	3/11/2011	1534	4.20	39080
1F1POOL	F1S38	2006/12/28	3/11/2011	1534	4.20	39308
1F1POOL	F1T72	2006/12/28	3/11/2011	1534	4.20	38745
1F1POOL	F1T83	2010/3/25	3/11/2011	351	0.96	41555
1F1POOL	F1U5	2006/12/28	3/11/2011	1534	4.20	41212
1F1POOL	TX112	1973/4/14	3/11/2011	13845	37.93	9793
1F1POOL	TX276	1974/9/15	3/11/2011	13326	36.51	14409
1F1POOL	TX306	1974/9/15	3/11/2011	13326	36.51	14753
1F1POOL	TX320	1974/9/15	3/11/2011	13326	36.51	14278
1F1POOL	TX322	1974/9/15	3/11/2011	13326	36.51	14921
1F1POOL	TX333	1974/9/15	3/11/2011	13326	36.51	14925
1F1POOL	TXA54	1974/9/15	3/11/2011	13326	36.51	5381

1F1POOL	TXC16	1978/9/1	3/11/2011	11879	32.55	5139
1F1POOL	F1H33	1989/5/25	3/11/2011	7960	21.81	35001
1F1POOL	F1T78	2010/3/25	3/11/2011	351	0.96	38938
1F1POOL	F1T79	2010/3/25	3/11/2011	351	0.96	38980
1F1POOL	F1T87	2010/3/25	3/11/2011	351	0.96	40862
1F1POOL	F1U21	2010/3/25	3/11/2011	351	0.96	39740
1F1POOL	F1U69	2008/10/18	3/11/2011	874	2.39	39779
1F1POOL	TX284	1976/8/17	3/11/2011	12624	34.59	18111
1F1POOL	F1SN32	2006/12/28	3/11/2011	1534	4.20	38487
1F1POOL	F1SN33	2006/12/28	3/11/2011	1534	4.20	39433
1F1POOL	F1T50	2008/10/18	3/11/2011	874	2.39	39211
1F1POOL	F1T51	2008/10/18	3/11/2011	874	2.39	39097
1F1POOL	F1T63	2006/12/28	3/11/2011	1534	4.20	39533
1F1POOL	F1U53	2008/10/18	3/11/2011	874	2.39	42318
1F1POOL	F1U64	2006/12/28	3/11/2011	1534	4.20	40257
1F1POOL	F1V6	2010/3/25	3/11/2011	351	0.96	41002
1F1POOL	TX151	1978/9/1	3/11/2011	11879	32.55	18781
1F1POOL	TX22	1974/9/15	3/11/2011	13326	36.51	14280
1F1POOL	F1S23	2006/12/28	3/11/2011	1534	4.20	39052
1F1POOL	F1S32	2006/12/28	3/11/2011	1534	4.20	39076
1F1POOL	F1SN29	2006/12/28	3/11/2011	1534	4.20	38489
1F1POOL	F1SN35	2006/12/28	3/11/2011	1534	4.20	39527
1F1POOL	F1T21	2008/10/18	3/11/2011	874	2.39	39984
1F1POOL	F1T22	2008/10/18	3/11/2011	874	2.39	40060
1F1POOL	F1T52	2008/10/18	3/11/2011	874	2.39	39171
1F1POOL	F1T53	2008/10/18	3/11/2011	874	2.39	41518
1F1POOL	F1U1	2010/3/25	3/11/2011	351	0.96	40751
1F1POOL	F1U17	2010/3/25	3/11/2011	351	0.96	40324
1F1POOL	F1U25	2008/10/18	3/11/2011	874	2.39	42071
1F1POOL	F1U43	2008/10/18	3/11/2011	874	2.39	39495
1F1POOL	F1U54	2008/10/18	3/11/2011	874	2.39	42347
1F1POOL	F1U66	2010/3/25	3/11/2011	351	0.96	36845
1F1POOL	F1U70	2008/10/18	3/11/2011	874	2.39	39747
1F1POOL	F1V73	2010/3/25	3/11/2011	351	0.96	41697
1F1POOL	TX150	1974/9/15	3/11/2011	13326	36.51	13256
1F1POOL	TX243	1974/9/15	3/11/2011	13326	36.51	9168
1F1POOL	TX247	1976/8/17	3/11/2011	12624	34.59	16192
1F1POOL	TX55	1973/4/14	3/11/2011	13845	37.93	7210
1F1POOL	F1S27	2006/12/28	3/11/2011	1534	4.20	38629
1F1POOL	F1S36	2006/12/28	3/11/2011	1534	4.20	39081
1F1POOL	F1T13	2008/10/18	3/11/2011	874	2.39	40587
1F1POOL	F1T40	2006/12/28	3/11/2011	1534	4.20	39385
1F1POOL	F1U48	2010/3/25	3/11/2011	351	0.96	42825
1F1POOL	TX121	1973/4/14	3/11/2011	13845	37.93	10084
1F1POOL	F1R22	2002/10/26	3/11/2011	3058	8.38	36565
1F1POOL	F1S2	2006/12/28	3/11/2011	1534	4.20	39109
1F1POOL	F1T65	2006/12/28	3/11/2011	1534	4.20	39822
1F1POOL	F1T86	2010/3/25	3/11/2011	351	0.96	40807
1F1POOL	F1U79	2010/3/25	3/11/2011	351	0.96	40645
1F1POOL	F1V74	2010/3/25	3/11/2011	351	0.96	41697
1F1POOL	F1T77	2010/3/25	3/11/2011	351	0.96	38967
1F1POOL	F1T85	2010/3/25	3/11/2011	351	0.96	40766
1F1POOL	F1U11	2008/10/18	3/11/2011	874	2.39	39739

1F1POOL	F1U29	2008/10/18	3/11/2011	874	2.39	41067
1F1POOL	F1U37	2010/3/25	3/11/2011	351	0.96	38682
1F1POOL	F1U7	2006/12/28	3/11/2011	1534	4.20	41167
1F1POOL	F1U8	2006/12/28	3/11/2011	1534	4.20	41235
1F1POOL	F1V8	2010/3/25	3/11/2011	351	0.96	41073
1F1POOL	F1S25	2006/12/28	3/11/2011	1534	4.20	38529
1F1POOL	F1S28	2006/12/28	3/11/2011	1534	4.20	38517
1F1POOL	F1S31	2006/12/28	3/11/2011	1534	4.20	39110
1F1POOL	F1S40	2006/12/28	3/11/2011	1534	4.20	39204
1F1POOL	F1T14	2008/10/18	3/11/2011	874	2.39	40602
1F1POOL	F1T23	2008/10/18	3/11/2011	874	2.39	40049
1F1POOL	F1U14	2010/3/25	3/11/2011	351	0.96	39073
1F1POOL	F1U19	2010/3/25	3/11/2011	351	0.96	40284
1F1POOL	F1U34	2008/10/18	3/11/2011	874	2.39	39465
1F1POOL	F1U41	2008/10/18	3/11/2011	874	2.39	39517
1F1POOL	F1U44	2008/10/18	3/11/2011	874	2.39	39499
1F1POOL	F1H31	1989/5/25	3/11/2011	7960	21.81	34964
1F1POOL	F1SN40	2006/12/28	3/11/2011	1534	4.20	38129
1F1POOL	F1T37	2006/12/28	3/11/2011	1534	4.20	39487
1F1POOL	F1T49	2008/10/18	3/11/2011	874	2.39	39150
1F1POOL	F1U20	2010/3/25	3/11/2011	351	0.96	40299
1F1POOL	F1U65	2010/3/25	3/11/2011	351	0.96	36919
1F1POOL	F1U74	2008/10/18	3/11/2011	874	2.39	39991
1F1POOL	F1V75	2010/3/25	3/11/2011	351	0.96	41762
1F1POOL	TX113	1974/9/15	3/11/2011	13326	36.51	14813
1F1POOL	TX144	1974/9/15	3/11/2011	13326	36.51	12907
1F1POOL	F1S39	2006/12/28	3/11/2011	1534	4.20	39209
1F1POOL	F1U12	2008/10/18	3/11/2011	874	2.39	39773
1F1POOL	F1U2	2010/3/25	3/11/2011	351	0.96	40805
1F1POOL	F1U4	2010/3/25	3/11/2011	351	0.96	40837
1F1POOL	F1U47	2010/3/25	3/11/2011	351	0.96	42802
1F1POOL	F1U51	2010/3/25	3/11/2011	351	0.96	39619
1F1POOL	F1U57	2008/10/18	3/11/2011	874	2.39	39931
1F1POOL	F1U58	2008/10/18	3/11/2011	874	2.39	39944
1F1POOL	F1V4	2010/3/25	3/11/2011	351	0.96	42295
1F1POOL	TX267	1974/9/15	3/11/2011	13326	36.51	14751
1F1POOL	TX282	1974/9/15	3/11/2011	13326	36.51	14195
1F1POOL	TXA58	1974/9/15	3/11/2011	13326	36.51	5172
1F1POOL	TXB100	1978/9/1	3/11/2011	11879	32.55	12150
1F1POOL	F1SN27	2006/12/28	3/11/2011	1534	4.20	39302
1F1POOL	F1T2	2008/10/18	3/11/2011	874	2.39	39634
1F1POOL	F1T57	2006/12/28	3/11/2011	1534	4.20	39153
1F1POOL	F1U56	2008/10/18	3/11/2011	874	2.39	42347
1F1POOL	TX115	1974/9/15	3/11/2011	13326	36.51	15713
1F1POOL	TX166	1974/9/15	3/11/2011	13326	36.51	13443
1F1POOL	TX275	1973/4/14	3/11/2011	13845	37.93	10326
1F1POOL	TX281	1974/9/15	3/11/2011	13326	36.51	14425
1F1POOL	TX345	1973/4/14	3/11/2011	13845	37.93	9267
1F1POOL	TX54	1974/9/15	3/11/2011	13326	36.51	14316
1F1POOL	F1SN38	2006/12/28	3/11/2011	1534	4.20	38238
1F1POOL	F1T56	2008/10/18	3/11/2011	874	2.39	41489
1F1POOL	F1T58	2006/12/28	3/11/2011	1534	4.20	39229
1F1POOL	F1T62	2006/12/28	3/11/2011	1534	4.20	39648

1F1POOL	F1T66	2006/12/28	3/11/2011	1534	4.20	39752
1F1POOL	F1U26	2008/10/18	3/11/2011	874	2.39	42057
1F1POOL	F1U60	2008/10/18	3/11/2011	874	2.39	39895
1F1POOL	F1U68	2010/3/25	3/11/2011	351	0.96	36865
1F1POOL	TX327	1974/9/15	3/11/2011	13326	36.51	14337
1F1POOL	TX94	1973/4/14	3/11/2011	13845	37.93	7783
1F1POOL	F1H4	1989/5/25	3/11/2011	7960	21.81	34998
1F1POOL	F1SN31	2006/12/28	3/11/2011	1534	4.20	38649
1F1POOL	F1U13	2010/3/25	3/11/2011	351	0.96	39114
1F1POOL	F1U76	2008/10/18	3/11/2011	874	2.39	39948
1F1POOL	F1V28	2008/10/18	3/11/2011	874	2.39	41287
1F1POOL	F1V3	2010/3/25	3/11/2011	351	0.96	42303
1F1POOL	F1V76	2010/3/25	3/11/2011	351	0.96	41702
1F1POOL	TX268	1974/9/15	3/11/2011	13326	36.51	14329
1F1POOL	TXA34	1974/9/15	3/11/2011	13326	36.51	7459
1F1POOL	TXA57	1974/9/15	3/11/2011	13326	36.51	6257
1F1POOL	RJ002Z	1983/12/10	3/11/2011	9953	27.27	19238
1F1POOL	F1R20	2002/10/26	3/11/2011	3058	8.38	36347
1F1POOL	F1S30	2006/12/28	3/11/2011	1534	4.20	39238
1F1POOL	F1SN17	2006/12/28	3/11/2011	1534	4.20	38954
1F1POOL	F1U15	2010/3/25	3/11/2011	351	0.96	39150
1F1POOL	F1U31	2008/10/18	3/11/2011	874	2.39	41084
1F1POOL	F1U49	2010/3/25	3/11/2011	351	0.96	39645
1F1POOL	F1V16	2010/3/25	3/11/2011	351	0.96	42025
1F1POOL	TX106	1978/9/1	3/11/2011	11879	32.55	18734
1F1POOL	TXA41	1974/9/15	3/11/2011	13326	36.51	6250
1F1POOL	F1S1	2006/12/28	3/11/2011	1534	4.20	39095
1F1POOL	F1S33	2006/12/28	3/11/2011	1534	4.20	39088
1F1POOL	F1S34	2006/12/28	3/11/2011	1534	4.20	39265
1F1POOL	F1T60	2006/12/28	3/11/2011	1534	4.20	39123
1F1POOL	F1U33	2008/10/18	3/11/2011	874	2.39	39512
1F1POOL	F1V15	2010/3/25	3/11/2011	351	0.96	41962
1F1POOL	F1V26	2008/10/18	3/11/2011	874	2.39	41200
1F1POOL	TX130	1978/9/1	3/11/2011	11879	32.55	20051
1F1POOL	F1SN36	2006/12/28	3/11/2011	1534	4.20	39483
1F1POOL	F1T61	2006/12/28	3/11/2011	1534	4.20	39598
1F1POOL	F1U42	2008/10/18	3/11/2011	874	2.39	39466
1F1POOL	TX193	1974/9/15	3/11/2011	13326	36.51	12004
1F1POOL	TX224	1974/9/15	3/11/2011	13326	36.51	15102
1F1POOL	TX246	1974/9/15	3/11/2011	13326	36.51	10905
1F1POOL	TXA59	1974/9/15	3/11/2011	13326	36.51	3759
1F1POOL	F1S26	2006/12/28	3/11/2011	1534	4.20	38735
1F1POOL	F1S4	2006/12/28	3/11/2011	1534	4.20	39058
1F1POOL	F1SN16	2002/10/26	3/11/2011	3058	8.38	36818
1F1POOL	F1SN37	2006/12/28	3/11/2011	1534	4.20	38219
1F1POOL	F1T59	2006/12/28	3/11/2011	1534	4.20	39231
1F1POOL	F1T64	2006/12/28	3/11/2011	1534	4.20	39521
1F1POOL	F1U22	2010/3/25	3/11/2011	351	0.96	39701
1F1POOL	F1U28	2008/10/18	3/11/2011	874	2.39	42043
1F1POOL	F1U61	2006/12/28	3/11/2011	1534	4.20	40360
1F1POOL	F1U71	2008/10/18	3/11/2011	874	2.39	39786
1F1POOL	F1U73	2008/10/18	3/11/2011	874	2.39	40034
1F1POOL	F1V5	2010/3/25	3/11/2011	351	0.96	40985

1F1POOL	TX125	1976/8/17	3/11/2011	12624	34.59	17840
1F1POOL	F1S24	2006/12/28	3/11/2011	1534	4.20	38965
1F1POOL	F1S37	2006/12/28	3/11/2011	1534	4.20	39146
1F1POOL	F1T12	2008/10/18	3/11/2011	874	2.39	40874
1F1POOL	F1U39	2010/3/25	3/11/2011	351	0.96	38815
1F1POOL	F1U80	2010/3/25	3/11/2011	351	0.96	40655
1F1POOL	F1V27	2008/10/18	3/11/2011	874	2.39	41213
1F1POOL	F1R17	2002/10/26	3/11/2011	3058	8.38	36438
1F1POOL	F1R21	2002/10/26	3/11/2011	3058	8.38	36504
1F1POOL	F1U35	2008/10/18	3/11/2011	874	2.39	39539
1F1POOL	F1U38	2010/3/25	3/11/2011	351	0.96	38713
1F1POOL	F1U55	2008/10/18	3/11/2011	874	2.39	42281
1F1POOL	F1U62	2006/12/28	3/11/2011	1534	4.20	40305
1F1POOL	TX126	1973/4/14	3/11/2011	13845	37.93	9758
1F1POOL	TX59	1974/9/15	3/11/2011	13326	36.51	12131
1F1POOL	F1S29	2006/12/28	3/11/2011	1534	4.20	39051
1F1POOL	F1SN30	2006/12/28	3/11/2011	1534	4.20	38603
1F1POOL	F1T3	2008/10/18	3/11/2011	874	2.39	39568
1F1POOL	F1T38	2006/12/28	3/11/2011	1534	4.20	39505
1F1POOL	F1T73	2006/12/28	3/11/2011	1534	4.20	40414
1F1POOL	F1U10	2008/10/18	3/11/2011	874	2.39	39729
1F1POOL	F1U9	2008/10/18	3/11/2011	874	2.39	39717
1F1POOL	F1V1	2010/3/25	3/11/2011	351	0.96	42284
1F1POOL	TX237	1974/9/15	3/11/2011	13326	36.51	6710
1F1POOL	TX364	1974/9/15	3/11/2011	13326	36.51	14337
1F1POOL	F1R25	2002/10/26	3/11/2011	3058	8.38	36803
1F1POOL	F1S21	2006/12/28	3/11/2011	1534	4.20	38963
1F1POOL	F1T17	2006/12/28	3/11/2011	1534	4.20	39974
1F1POOL	F1T68	2006/12/28	3/11/2011	1534	4.20	39823
1F1POOL	F1U27	2008/10/18	3/11/2011	874	2.39	42056
1F1POOL	F1U63	2006/12/28	3/11/2011	1534	4.20	40328
1F1POOL	F1U78	2010/3/25	3/11/2011	351	0.96	40688
	F1AAN21					
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F1ABN9

Unit	Fuel ID	Shutdown Date	Earthquake Date	Cooling Duration (Days)	Cooling Duration (Yeas)	Burn up
				10778	MAX=	48004
				176	MIN=	20947
				1443.06387	AVE=	42258.8194
1F2POOL	F2P57	2001/12/2	3/11/2011	3386	9.28	37618
1F2POOL	F2P59	2001/12/2	3/11/2011	3386	9.28	38102
1F2POOL	F2P60	2001/12/2	3/11/2011	3386	9.28	36826
1F2POOL	F2P62	2005/4/18	3/11/2011	2153	5.90	40841
1F2POOL	F2P68	2001/12/2	3/11/2011	3386	9.28	38249
1F2POOL	F2P72	2001/12/2	3/11/2011	3386	9.28	36931
1F2POOL	F2P73	2001/12/2	3/11/2011	3386	9.28	38251
1F2POOL	F2P80	2005/4/18	3/11/2011	2153	5.90	40913
1F2POOL	F2P82	2001/12/2	3/11/2011	3386	9.28	38179
1F2POOL	F2P84	2001/12/2	3/11/2011	3386	9.28	37592
1F2POOL	F2P85	2003/3/31	3/11/2011	2902	7.95	42010
1F2POOL	F2S90	2003/3/31	3/11/2011	2902	7.95	38890
1F2POOL	F2S91	2003/3/31	3/11/2011	2902	7.95	38790
1F2POOL	F2S93	2003/3/31	3/11/2011	2902	7.95	41523
1F2POOL	F2S95	2003/3/31	3/11/2011	2902	7.95	41122
1F2POOL	F2S102	2003/3/31	3/11/2011	2902	7.95	43424
1F2POOL	F2S106	2003/3/31	3/11/2011	2902	7.95	40428
1F2POOL	F2S110	2005/4/18	3/11/2011	2153	5.90	40558
1F2POOL	F2S111	2003/3/31	3/11/2011	2902	7.95	40541
1F2POOL	F2S113	2003/3/31	3/11/2011	2902	7.95	40658
1F2POOL	F2S114	2003/3/31	3/11/2011	2902	7.95	40429
1F2POOL	F2S115	2003/3/31	3/11/2011	2902	7.95	43436
1F2POOL	F2S117	2003/3/31	3/11/2011	2902	7.95	40614
1F2POOL	F2S118	2003/3/31	3/11/2011	2902	7.95	37398
1F2POOL	F2S119	2005/4/18	3/11/2011	2153	5.90	38929
1F2POOL	F2S122	2003/3/31	3/11/2011	2902	7.95	41294
1F2POOL	F2S123	2003/3/31	3/11/2011	2902	7.95	38769
1F2POOL	F2S124	2003/3/31	3/11/2011	2902	7.95	41634
1F2POOL	F2S125	2003/3/31	3/11/2011	2902	7.95	43441
1F2POOL	F2S126	2003/3/31	3/11/2011	2902	7.95	38908
1F2POOL	F2S127	2003/3/31	3/11/2011	2902	7.95	38953
1F2POOL	F2S129	2003/3/31	3/11/2011	2902	7.95	38808
1F2POOL	F2S133	2003/3/31	3/11/2011	2902	7.95	40073
1F2POOL	F2S134	2003/3/31	3/11/2011	2902	7.95	41314
1F2POOL	F2S136	2003/3/31	3/11/2011	2902	7.95	43411
1F2POOL	F2S137	2003/3/31	3/11/2011	2902	7.95	41556
1F2POOL	F2S139	2003/3/31	3/11/2011	2902	7.95	43473
1F2POOL	F2S140	2003/3/31	3/11/2011	2902	7.95	41290
1F2POOL	F2RN30	2003/3/31	3/11/2011	2902	7.95	38686
1F2POOL	FU209	1981/9/6	3/11/2011	10778	29.53	20947
1F2POOL	FU217	1981/9/6	3/11/2011	10778	29.53	23197
1F2POOL	F2R1	2001/12/2	3/11/2011	3386	9.28	36553
1F2POOL	F2R4	2001/12/2	3/11/2011	3386	9.28	37883
1F2POOL	F2R7	2003/3/31	3/11/2011	2902	7.95	38770
1F2POOL	F2R10	2003/3/31	3/11/2011	2902	7.95	39547
1F2POOL	F2R22	2001/12/2	3/11/2011	3386	9.28	36843
1F2POOL	F2R24	2001/12/2	3/11/2011	3386	9.28	37087
1F2POOL	F2R27	2001/12/2	3/11/2011	3386	9.28	36919

1F2POOL	F2R28	2001/12/2	3/11/2011	3386	9.28	37870
1F2POOL	F2R35	2005/4/18	3/11/2011	2153	5.90	39416
1F2POOL	F2R36	2005/4/18	3/11/2011	2153	5.90	40821
1F2POOL	F2R37	2001/12/2	3/11/2011	3386	9.28	37577
1F2POOL	F2R42	2003/3/31	3/11/2011	2902	7.95	38808
1F2POOL	F2R48	2001/12/2	3/11/2011	3386	9.28	36656
1F2POOL	F2RN4	2003/3/31	3/11/2011	2902	7.95	38887
1F2POOL	F2RN5	2001/12/2	3/11/2011	3386	9.28	36320
1F2POOL	F2RN6	2001/12/2	3/11/2011	3386	9.28	37875
1F2POOL	F2RN11	2001/12/2	3/11/2011	3386	9.28	37909
1F2POOL	F2RN13	2001/12/2	3/11/2011	3386	9.28	37510
1F2POOL	F2RN37	2001/12/2	3/11/2011	3386	9.28	37967
1F2POOL	F2RN43	2001/12/2	3/11/2011	3386	9.28	38234
1F2POOL	F2RN50	2001/12/2	3/11/2011	3386	9.28	37832
1F2POOL	F2RN55	2001/12/2	3/11/2011	3386	9.28	37983
1F2POOL	F2RN56	2001/12/2	3/11/2011	3386	9.28	36321
1F2POOL	F2RN57	2003/3/31	3/11/2011	2902	7.95	38867
1F2POOL	F2RN58	2001/12/2	3/11/2011	3386	9.28	38390
1F2POOL	F2S3	2003/3/31	3/11/2011	2902	7.95	41761
1F2POOL	F2S8	2003/3/31	3/11/2011	2902	7.95	41752
1F2POOL	F2S10	2003/3/31	3/11/2011	2902	7.95	40513
1F2POOL	F2S11	2003/3/31	3/11/2011	2902	7.95	42078
1F2POOL	F2S13	2005/4/18	3/11/2011	2153	5.90	41475
1F2POOL	F2S14	2003/3/31	3/11/2011	2902	7.95	39547
1F2POOL	F2S15	2005/4/18	3/11/2011	2153	5.90	40782
1F2POOL	F2S16	2003/3/31	3/11/2011	2902	7.95	42036
1F2POOL	F2S20	2005/4/18	3/11/2011	2153	5.90	41469
1F2POOL	F2S21	2003/3/31	3/11/2011	2902	7.95	38776
1F2POOL	F2S22	2003/3/31	3/11/2011	2902	7.95	41782
1F2POOL	F2S23	2005/4/18	3/11/2011	2153	5.90	38857
1F2POOL	F2S24	2003/3/31	3/11/2011	2902	7.95	39628
1F2POOL	F2S25	2003/3/31	3/11/2011	2902	7.95	39651
1F2POOL	F2S26	2005/4/18	3/11/2011	2153	5.90	38811
1F2POOL	F2S27	2003/3/31	3/11/2011	2902	7.95	41864
1F2POOL	F2S29	2005/4/18	3/11/2011	2153	5.90	41397
1F2POOL	F2S30	2003/3/31	3/11/2011	2902	7.95	39568
1F2POOL	F2S31	2003/3/31	3/11/2011	2902	7.95	40521
1F2POOL	F2S32	2003/3/31	3/11/2011	2902	7.95	41461
1F2POOL	F2S34	2003/3/31	3/11/2011	2902	7.95	37903
1F2POOL	F2S37	2005/4/18	3/11/2011	2153	5.90	41075
1F2POOL	F2S39	2003/3/31	3/11/2011	2902	7.95	40514
1F2POOL	F2S42	2003/3/31	3/11/2011	2902	7.95	41758
1F2POOL	F2S44	2003/3/31	3/11/2011	2902	7.95	39215
1F2POOL	F2S45	2003/3/31	3/11/2011	2902	7.95	41487
1F2POOL	F2S46	2003/3/31	3/11/2011	2902	7.95	41848
1F2POOL	F2S47	2005/4/18	3/11/2011	2153	5.90	38687
1F2POOL	F2S48	2003/3/31	3/11/2011	2902	7.95	39385
1F2POOL	F2S49	2005/4/18	3/11/2011	2153	5.90	38929
1F2POOL	F2S50	2006/9/4	3/11/2011	1649	4.52	40079
1F2POOL	F2S51	2005/4/18	3/11/2011	2153	5.90	38960
1F2POOL	F2S52	2006/9/4	3/11/2011	1649	4.52	39513
1F2POOL	F2S53	2005/4/18	3/11/2011	2153	5.90	38973
1F2POOL	F2S54	2006/9/4	3/11/2011	1649	4.52	40152

1F2POOL	F2S55	2005/4/18	3/11/2011	2153	5.90	38794
1F2POOL	F2S56	2006/9/4	3/11/2011	1649	4.52	39540
1F2POOL	F2S57	2006/9/4	3/11/2011	1649	4.52	40039
1F2POOL	F2S58	2006/9/4	3/11/2011	1649	4.52	42199
1F2POOL	F2S59	2006/9/4	3/11/2011	1649	4.52	40173
1F2POOL	F2S60	2006/9/4	3/11/2011	1649	4.52	41413
1F2POOL	F2S61	2006/9/4	3/11/2011	1649	4.52	40163
1F2POOL	F2S62	2006/9/4	3/11/2011	1649	4.52	42154
1F2POOL	F2S63	2006/9/4	3/11/2011	1649	4.52	39918
1F2POOL	F2S64	2006/9/4	3/11/2011	1649	4.52	42402
1F2POOL	F2S65	2005/4/18	3/11/2011	2153	5.90	41341
1F2POOL	F2S66	2005/4/18	3/11/2011	2153	5.90	41235
1F2POOL	F2S68	2005/4/18	3/11/2011	2153	5.90	41256
1F2POOL	F2S69	2005/4/18	3/11/2011	2153	5.90	41333
1F2POOL	F2S72	2005/4/18	3/11/2011	2153	5.90	41437
1F2POOL	F2S73	2005/4/18	3/11/2011	2153	5.90	41228
1F2POOL	F2S76	2005/4/18	3/11/2011	2153	5.90	41687
1F2POOL	F2S78	2003/3/31	3/11/2011	2902	7.95	43357
1F2POOL	F2S80	2003/3/31	3/11/2011	2902	7.95	41472
1F2POOL	F2S82	2003/3/31	3/11/2011	2902	7.95	42011
1F2POOL	F2S83	2003/3/31	3/11/2011	2902	7.95	41181
1F2POOL	F2P71	2001/12/2	3/11/2011	3386	9.28	37601
1F2POOL	F2R13	2003/3/31	3/11/2011	2902	7.95	37954
1F2POOL	F2R45	2001/12/2	3/11/2011	3386	9.28	38045
1F2POOL	F2RN3	2001/12/2	3/11/2011	3386	9.28	38471
1F2POOL	F2S7	2003/3/31	3/11/2011	2902	7.95	41815
1F2POOL	F2S38	2003/3/31	3/11/2011	2902	7.95	42077
1F2POOL	F2S71	2005/4/18	3/11/2011	2153	5.90	41269
1F2POOL	FU275	1981/9/6	3/11/2011	10778	29.53	24407
1F2POOL	F2T11	2006/9/4	3/11/2011	1649	4.52	39237
1F2POOL	F2T8	2006/9/4	3/11/2011	1649	4.52	40900
1F2POOL	F2T10	2006/9/4	3/11/2011	1649	4.52	40371
1F2POOL	F2T12	2006/9/4	3/11/2011	1649	4.52	41202
1F2POOL	F2T14	2006/9/4	3/11/2011	1649	4.52	40414
1F2POOL	F2T16	2006/9/4	3/11/2011	1649	4.52	41219
1F2POOL	F2T17	2005/4/18	3/11/2011	2153	5.90	38458
1F2POOL	F2T20	2005/4/18	3/11/2011	2153	5.90	38258
1F2POOL	F2TN2	2006/9/4	3/11/2011	1649	4.52	38603
1F2POOL	F2TN3	2006/9/4	3/11/2011	1649	4.52	38648
1F2POOL	F2TN4	2006/9/4	3/11/2011	1649	4.52	38604
1F2POOL	F2TN5	2008/3/12	3/11/2011	1094	3.00	41938
1F2POOL	F2TN6	2006/9/4	3/11/2011	1649	4.52	40820
1F2POOL	F2TN7	2008/3/12	3/11/2011	1094	3.00	42139
1F2POOL	F2TN9	2008/3/12	3/11/2011	1094	3.00	42108
1F2POOL	F2TN10	2006/9/4	3/11/2011	1649	4.52	40806
1F2POOL	F2TN11	2008/3/12	3/11/2011	1094	3.00	42155
1F2POOL	F2TN13	2006/9/4	3/11/2011	1649	4.52	39353
1F2POOL	F2TN15	2006/9/4	3/11/2011	1649	4.52	39014
1F2POOL	F2TN17	2006/9/4	3/11/2011	1649	4.52	39541
1F2POOL	F2TN19	2006/9/4	3/11/2011	1649	4.52	38760
1F2POOL	F2TN21	2006/9/4	3/11/2011	1649	4.52	39807
1F2POOL	F2TN22	2006/9/4	3/11/2011	1649	4.52	38729
1F2POOL	F2TN24	2006/9/4	3/11/2011	1649	4.52	38869

1F2POOL	F2TN26	2006/9/4	3/11/2011	1649	4.52	38727
1F2POOL	F2TN27	2006/9/4	3/11/2011	1649	4.52	39931
1F2POOL	F2TN29	2005/4/18	3/11/2011	2153	5.90	38377
1F2POOL	F2TN33	2005/4/18	3/11/2011	2153	5.90	38465
1F2POOL	F2TN36	2005/4/18	3/11/2011	2153	5.90	38019
1F2POOL	F2TN38	2008/3/12	3/11/2011	1094	3.00	42224
1F2POOL	F2TN40	2008/3/12	3/11/2011	1094	3.00	42220
1F2POOL	F2TN1	2006/9/4	3/11/2011	1649	4.52	38611
1F2POOL	F2T21	2005/4/18	3/11/2011	2153	5.90	38589
1F2POOL	F2T22	2005/4/18	3/11/2011	2153	5.90	38197
1F2POOL	F2T25	2005/4/18	3/11/2011	2153	5.90	38266
1F2POOL	F2T27	2005/4/18	3/11/2011	2153	5.90	38340
1F2POOL	F2T29	2005/4/18	3/11/2011	2153	5.90	40627
1F2POOL	F2T30	2006/9/4	3/11/2011	1649	4.52	42482
1F2POOL	F2T31	2005/4/18	3/11/2011	2153	5.90	40665
1F2POOL	F2T32	2005/4/18	3/11/2011	2153	5.90	37760
1F2POOL	F2T34	2006/9/4	3/11/2011	1649	4.52	41613
1F2POOL	F2T35	2005/4/18	3/11/2011	2153	5.90	40646
1F2POOL	F2T36	2005/4/18	3/11/2011	2153	5.90	37774
1F2POOL	F2T37	2008/3/12	3/11/2011	1094	3.00	42721
1F2POOL	F2T38	2006/9/4	3/11/2011	1649	4.52	39614
1F2POOL	F2T39	2008/3/12	3/11/2011	1094	3.00	42952
1F2POOL	F2T40	2006/9/4	3/11/2011	1649	4.52	39705
1F2POOL	F2T41	2008/3/12	3/11/2011	1094	3.00	42906
1F2POOL	F2T42	2006/9/4	3/11/2011	1649	4.52	39715
1F2POOL	F2T43	2008/3/12	3/11/2011	1094	3.00	42827
1F2POOL	F2T45	2006/9/4	3/11/2011	1649	4.52	40263
1F2POOL	F2T48	2005/4/18	3/11/2011	2153	5.90	38118
1F2POOL	F2T49	2006/9/4	3/11/2011	1649	4.52	40215
1F2POOL	F2T52	2005/4/18	3/11/2011	2153	5.90	38248
1F2POOL	F2T53	2006/9/4	3/11/2011	1649	4.52	39243
1F2POOL	F2T54	2006/9/4	3/11/2011	1649	4.52	41935
1F2POOL	F2T55	2006/9/4	3/11/2011	1649	4.52	39368
1F2POOL	F2T57	2006/9/4	3/11/2011	1649	4.52	39396
1F2POOL	F2T58	2006/9/4	3/11/2011	1649	4.52	42002
1F2POOL	F2T59	2006/9/4	3/11/2011	1649	4.52	39136
1F2POOL	F2T61	2006/9/4	3/11/2011	1649	4.52	41381
1F2POOL	F2T1	2006/9/4	3/11/2011	1649	4.52	42071
1F2POOL	F2T2	2006/9/4	3/11/2011	1649	4.52	40807
1F2POOL	F2T3	2006/9/4	3/11/2011	1649	4.52	42232
1F2POOL	F2T5	2006/9/4	3/11/2011	1649	4.52	42170
1F2POOL	F2T6	2006/9/4	3/11/2011	1649	4.52	40873
1F2POOL	F2UN54	2008/3/12	3/11/2011	1094	3.00	47242
1F2POOL	F2UN55	2008/3/12	3/11/2011	1094	3.00	47240
1F2POOL	F2UN56	2008/3/12	3/11/2011	1094	3.00	47280
1F2POOL	F2UN57	2008/3/12	3/11/2011	1094	3.00	46723
1F2POOL	F2UN58	2009/4/22	3/11/2011	688	1.88	44216
1F2POOL	F2UN60	2008/3/12	3/11/2011	1094	3.00	45708
1F2POOL	F2UN61	2009/4/22	3/11/2011	688	1.88	44006
1F2POOL	F2UN63	2008/3/12	3/11/2011	1094	3.00	46865
1F2POOL	F2UN64	2006/9/4	3/11/2011	1649	4.52	41364
1F2POOL	F2UN66	2008/3/12	3/11/2011	1094	3.00	47258
1F2POOL	F2UN67	2006/9/4	3/11/2011	1649	4.52	40934

1F2POOL	F2UN69	2006/9/4	3/11/2011	1649	4.52	41512
1F2POOL	F2UN71	2008/3/12	3/11/2011	1094	3.00	44034
1F2POOL	F2UN72	2008/3/12	3/11/2011	1094	3.00	43051
1F2POOL	F2T13	2006/9/4	3/11/2011	1649	4.52	39260
1F2POOL	F2T60	2006/9/4	3/11/2011	1649	4.52	41828
1F2POOL	F2T7	2006/9/4	3/11/2011	1649	4.52	42195
1F2POOL	F2T15	2006/9/4	3/11/2011	1649	4.52	39113
1F2POOL	F2TN25	2006/9/4	3/11/2011	1649	4.52	39984
1F2POOL	F2TN39	2006/9/4	3/11/2011	1649	4.52	40184
1F2POOL	F2T44	2006/9/4	3/11/2011	1649	4.52	39573
1F2POOL	F2UN140	2009/4/22	3/11/2011	688	1.88	44212
1F2POOL	F2UN143	2009/4/22	3/11/2011	688	1.88	42688
1F2POOL	F2UN137	2009/4/22	3/11/2011	688	1.88	44140
1F2POOL	F2UN24	2008/3/12	3/11/2011	1094	3.00	44659
1F2POOL	F2UN27	2008/3/12	3/11/2011	1094	3.00	46315
1F2POOL	F2UN53	2008/3/12	3/11/2011	1094	3.00	47453
1F2POOL	F2UN29	2008/3/12	3/11/2011	1094	3.00	47779
1F2POOL	F2UN32	2008/3/12	3/11/2011	1094	3.00	44771
1F2POOL	F2UN35	2006/9/4	3/11/2011	1649	4.52	41305
1F2POOL	F2UN59	2008/3/12	3/11/2011	1094	3.00	42735
1F2POOL	F2UN62	2008/3/12	3/11/2011	1094	3.00	44177
1F2POOL	F2UN68	2008/3/12	3/11/2011	1094	3.00	45534
1F2POOL	F2UN65	2008/3/12	3/11/2011	1094	3.00	43069
1F2POOL	F2UN70	2009/4/22	3/11/2011	688	1.88	44091
1F2POOL	F2UN95	2009/4/22	3/11/2011	688	1.88	43375
1F2POOL	F2UN98	2008/3/12	3/11/2011	1094	3.00	46728
1F2POOL	F2UN100	2008/3/12	3/11/2011	1094	3.00	42370
1F2POOL	F2UN103	2008/3/12	3/11/2011	1094	3.00	46548
1F2POOL	F2UN106	2008/3/12	3/11/2011	1094	3.00	45621
1F2POOL	F2UN132	2008/3/12	3/11/2011	1094	3.00	43568
1F2POOL	F2UN134	2008/3/12	3/11/2011	1094	3.00	42713
1F2POOL	F2UN144	2009/4/22	3/11/2011	688	1.88	42736
1F2POOL	F2UN110	2009/4/22	3/11/2011	688	1.88	42126
1F2POOL	F2UN111	2009/4/22	3/11/2011	688	1.88	41975
1F2POOL	F2UN112	2009/4/22	3/11/2011	688	1.88	42115
1F2POOL	F2UN113	2009/4/22	3/11/2011	688	1.88	44788
1F2POOL	F2UN114	2009/4/22	3/11/2011	688	1.88	44969
1F2POOL	F2UN115	2009/4/22	3/11/2011	688	1.88	44726
1F2POOL	F2UN116	2009/4/22	3/11/2011	688	1.88	44717
1F2POOL	F2UN117	2009/4/22	3/11/2011	688	1.88	42106
1F2POOL	F2UN118	2009/4/22	3/11/2011	688	1.88	42302
1F2POOL	F2UN119	2009/4/22	3/11/2011	688	1.88	42150
1F2POOL	F2UN120	2009/4/22	3/11/2011	688	1.88	42313
1F2POOL	F2UN121	2009/4/22	3/11/2011	688	1.88	46502
1F2POOL	F2UN122	2009/4/22	3/11/2011	688	1.88	46489
1F2POOL	F2UN123	2009/4/22	3/11/2011	688	1.88	46465
1F2POOL	F2UN124	2009/4/22	3/11/2011	688	1.88	46623
1F2POOL	F2UN125	2009/4/22	3/11/2011	688	1.88	45475
1F2POOL	F2UN126	2009/4/22	3/11/2011	688	1.88	45481
1F2POOL	F2UN127	2009/4/22	3/11/2011	688	1.88	45665
1F2POOL	F2UN128	2009/4/22	3/11/2011	688	1.88	45678
1F2POOL	F2UN129	2008/3/12	3/11/2011	1094	3.00	43342
1F2POOL	F2UN130	2008/3/12	3/11/2011	1094	3.00	42749

1F2POOL	F2UN131	2008/3/12	3/11/2011	1094	3.00	42725
1F2POOL	F2UN133	2008/3/12	3/11/2011	1094	3.00	43493
1F2POOL	F2UN135	2008/3/12	3/11/2011	1094	3.00	42896
1F2POOL	F2UN136	2008/3/12	3/11/2011	1094	3.00	43385
1F2POOL	F2UN138	2009/4/22	3/11/2011	688	1.88	44199
1F2POOL	F2UN139	2009/4/22	3/11/2011	688	1.88	44179
1F2POOL	F2UN141	2009/4/22	3/11/2011	688	1.88	42699
1F2POOL	F2UN142	2009/4/22	3/11/2011	688	1.88	42754
1F2POOL	F2UN109	2009/4/22	3/11/2011	688	1.88	42017
1F2POOL	F2UN74	2006/9/4	3/11/2011	1649	4.52	41182
1F2POOL	F2UN75	2008/3/12	3/11/2011	1094	3.00	44323
1F2POOL	F2UN76	2008/3/12	3/11/2011	1094	3.00	45631
1F2POOL	F2UN77	2008/3/12	3/11/2011	1094	3.00	44839
1F2POOL	F2UN78	2008/3/12	3/11/2011	1094	3.00	42960
1F2POOL	F2UN79	2008/3/12	3/11/2011	1094	3.00	45568
1F2POOL	F2UN80	2008/3/12	3/11/2011	1094	3.00	48004
1F2POOL	F2UN81	2009/4/22	3/11/2011	688	1.88	44059
1F2POOL	F2UN82	2008/3/12	3/11/2011	1094	3.00	46300
1F2POOL	F2UN83	2008/3/12	3/11/2011	1094	3.00	45804
1F2POOL	F2UN84	2008/3/12	3/11/2011	1094	3.00	47946
1F2POOL	F2UN85	2008/3/12	3/11/2011	1094	3.00	44673
1F2POOL	F2UN86	2008/3/12	3/11/2011	1094	3.00	44236
1F2POOL	F2UN87	2008/3/12	3/11/2011	1094	3.00	47297
1F2POOL	F2UN88	2008/3/12	3/11/2011	1094	3.00	45220
1F2POOL	F2UN89	2008/3/12	3/11/2011	1094	3.00	44738
1F2POOL	F2UN90	2008/3/12	3/11/2011	1094	3.00	42854
1F2POOL	F2UN91	2008/3/12	3/11/2011	1094	3.00	47586
1F2POOL	F2UN92	2006/9/4	3/11/2011	1649	4.52	41309
1F2POOL	F2UN93	2008/3/12	3/11/2011	1094	3.00	46815
1F2POOL	F2UN94	2008/3/12	3/11/2011	1094	3.00	44258
1F2POOL	F2UN96	2006/9/4	3/11/2011	1649	4.52	40976
1F2POOL	F2UN97	2008/3/12	3/11/2011	1094	3.00	45852
1F2POOL	F2UN99	2008/3/12	3/11/2011	1094	3.00	43303
1F2POOL	F2UN101	2008/3/12	3/11/2011	1094	3.00	45006
1F2POOL	F2UN102	2008/3/12	3/11/2011	1094	3.00	47297
1F2POOL	F2UN104	2008/3/12	3/11/2011	1094	3.00	42417
1F2POOL	F2UN105	2008/3/12	3/11/2011	1094	3.00	47503
1F2POOL	F2UN107	2008/3/12	3/11/2011	1094	3.00	47314
1F2POOL	F2UN108	2008/3/12	3/11/2011	1094	3.00	45734
1F2POOL	F2UN73	2009/4/22	3/11/2011	688	1.88	43516
1F2POOL	F2UN2	2008/3/12	3/11/2011	1094	3.00	47212
1F2POOL	F2UN3	2008/3/12	3/11/2011	1094	3.00	45588
1F2POOL	F2UN4	2008/3/12	3/11/2011	1094	3.00	47185
1F2POOL	F2UN5	2008/3/12	3/11/2011	1094	3.00	42334
1F2POOL	F2UN6	2008/3/12	3/11/2011	1094	3.00	46404
1F2POOL	F2UN7	2008/3/12	3/11/2011	1094	3.00	47247
1F2POOL	F2UN8	2008/3/12	3/11/2011	1094	3.00	44966
1F2POOL	F2UN9	2008/3/12	3/11/2011	1094	3.00	42360
1F2POOL	F2UN10	2008/3/12	3/11/2011	1094	3.00	43188
1F2POOL	F2UN11	2008/3/12	3/11/2011	1094	3.00	46650
1F2POOL	F2UN12	2008/3/12	3/11/2011	1094	3.00	45734
1F2POOL	F2UN13	2006/9/4	3/11/2011	1649	4.52	40970
1F2POOL	F2UN14	2009/4/22	3/11/2011	688	1.88	43442

1F2POOL	F2UN15	2008/3/12	3/11/2011	1094	3.00	44099
1F2POOL	F2UN16	2008/3/12	3/11/2011	1094	3.00	46587
1F2POOL	F2UN17	2006/9/4	3/11/2011	1649	4.52	41334
1F2POOL	F2UN18	2008/3/12	3/11/2011	1094	3.00	47426
1F2POOL	F2UN1	2008/3/12	3/11/2011	1094	3.00	45770
1F2POOL	F2UN19	2008/3/12	3/11/2011	1094	3.00	42739
1F2POOL	F2UN20	2008/3/12	3/11/2011	1094	3.00	44521
1F2POOL	F2UN21	2008/3/12	3/11/2011	1094	3.00	45232
1F2POOL	F2UN22	2008/3/12	3/11/2011	1094	3.00	47100
1F2POOL	F2UN23	2008/3/12	3/11/2011	1094	3.00	44214
1F2POOL	F2UN25	2008/3/12	3/11/2011	1094	3.00	47902
1F2POOL	F2UN26	2008/3/12	3/11/2011	1094	3.00	45788
1F2POOL	F2UN28	2009/4/22	3/11/2011	688	1.88	43902
1F2POOL	F2UN30	2008/3/12	3/11/2011	1094	3.00	45476
1F2POOL	F2UN31	2008/3/12	3/11/2011	1094	3.00	42999
1F2POOL	F2UN33	2008/3/12	3/11/2011	1094	3.00	45607
1F2POOL	F2UN34	2008/3/12	3/11/2011	1094	3.00	44306
1F2POOL	F2UN36	2009/4/22	3/11/2011	688	1.88	43374
1F2POOL	F2UN37	2008/3/12	3/11/2011	1094	3.00	42984
1F2POOL	F2UN38	2008/3/12	3/11/2011	1094	3.00	44073
1F2POOL	F2UN39	2009/4/22	3/11/2011	688	1.88	44109
1F2POOL	F2UN40	2006/9/4	3/11/2011	1649	4.52	41413
1F2POOL	F2UN41	2008/3/12	3/11/2011	1094	3.00	45559
1F2POOL	F2UN42	2006/9/4	3/11/2011	1649	4.52	40856
1F2POOL	F2UN43	2008/3/12	3/11/2011	1094	3.00	47109
1F2POOL	F2UN44	2008/3/12	3/11/2011	1094	3.00	43142
1F2POOL	F2UN45	2006/9/4	3/11/2011	1649	4.52	41375
1F2POOL	F2UN46	2008/3/12	3/11/2011	1094	3.00	46805
1F2POOL	F2UN47	2008/3/12	3/11/2011	1094	3.00	44064
1F2POOL	F2UN48	2009/4/22	3/11/2011	688	1.88	43927
1F2POOL	F2UN49	2008/3/12	3/11/2011	1094	3.00	45503
1F2POOL	F2UN50	2008/3/12	3/11/2011	1094	3.00	42670
1F2POOL	F2UN51	2009/4/22	3/11/2011	688	1.88	44106
1F2POOL	F2UN52	2008/3/12	3/11/2011	1094	3.00	46538
1F2POOL	F2T63	2006/9/4	3/11/2011	1649	4.52	41513
1F2POOL	F2T64	2006/9/4	3/11/2011	1649	4.52	39350
1F2POOL	F2T65	2006/9/4	3/11/2011	1649	4.52	41539
1F2POOL	F2T66	2006/9/4	3/11/2011	1649	4.52	39228
1F2POOL	F2T67	2006/9/4	3/11/2011	1649	4.52	41238
1F2POOL	F2T68	2006/9/4	3/11/2011	1649	4.52	39366
1F2POOL	F2T69	2006/9/4	3/11/2011	1649	4.52	40763
1F2POOL	F2T70	2005/4/18	3/11/2011	2153	5.90	37921
1F2POOL	F2T71	2006/9/4	3/11/2011	1649	4.52	40754
1F2POOL	F2T73	2006/9/4	3/11/2011	1649	4.52	40584
1F2POOL	F2T74	2005/4/18	3/11/2011	2153	5.90	37947
1F2POOL	F2T75	2006/9/4	3/11/2011	1649	4.52	40696
1F2POOL	F2T76	2005/4/18	3/11/2011	2153	5.90	38071
1F2POOL	F2T77	2008/3/12	3/11/2011	1094	3.00	42077
1F2POOL	F2T78	2008/3/12	3/11/2011	1094	3.00	42297
1F2POOL	F2T79	2008/3/12	3/11/2011	1094	3.00	43669
1F2POOL	F2T80	2008/3/12	3/11/2011	1094	3.00	40837
1F2POOL	F2T81	2008/3/12	3/11/2011	1094	3.00	40761
1F2POOL	F2T82	2008/3/12	3/11/2011	1094	3.00	43622

1F2POOL	F2TN23	2006/9/4	3/11/2011	1649	4.52	39968
1F2POOL	F2TN28	2006/9/4	3/11/2011	1649	4.52	38611
1F2POOL	F2TN32	2005/4/18	3/11/2011	2153	5.90	38048
1F2POOL	F2TN37	2006/9/4	3/11/2011	1649	4.52	40097
1F2POOL	F2TN41	2006/9/4	3/11/2011	1649	4.52	40286
1F2POOL	F2T4	2006/9/4	3/11/2011	1649	4.52	40930
1F2POOL	F2T9	2006/9/4	3/11/2011	1649	4.52	39228
1F2POOL	F2T18	2005/4/18	3/11/2011	2153	5.90	38145
1F2POOL	F2T47	2006/9/4	3/11/2011	1649	4.52	40312
1F2POOL	F2T51	2006/9/4	3/11/2011	1649	4.52	40174
1F2POOL	F2T56	2006/9/4	3/11/2011	1649	4.52	42027
1F2POOL	F2T62	2006/9/4	3/11/2011	1649	4.52	39329
1F2POOL	F2TN42	2008/3/12	3/11/2011	1094	3.00	42303
1F2POOL	F2TN43	2006/9/4	3/11/2011	1649	4.52	40149
1F2POOL	F2TN44	2008/3/12	3/11/2011	1094	3.00	42293
1F2POOL	F2TN45	2005/4/18	3/11/2011	2153	5.90	42043
1F2POOL	F2TN47	2005/4/18	3/11/2011	2153	5.90	42164
1F2POOL	F2TN49	2005/4/18	3/11/2011	2153	5.90	42027
1F2POOL	F2TN51	2005/4/18	3/11/2011	2153	5.90	42225
1F2POOL	F2TN53	2008/3/12	3/11/2011	1094	3.00	42035
1F2POOL	F2TN54	2008/3/12	3/11/2011	1094	3.00	42054
1F2POOL	F2TN55	2008/3/12	3/11/2011	1094	3.00	41970
1F2POOL	F2TN56	2008/3/12	3/11/2011	1094	3.00	42164
1F2POOL	F2TN57	2008/3/12	3/11/2011	1094	3.00	43702
1F2POOL	F2TN58	2008/3/12	3/11/2011	1094	3.00	40936
1F2POOL	F2TN59	2008/3/12	3/11/2011	1094	3.00	40946
1F2POOL	F2TN60	2008/3/12	3/11/2011	1094	3.00	43740
1F2POOL	F2TN61	2008/3/12	3/11/2011	1094	3.00	42343
1F2POOL	F2TN62	2008/3/12	3/11/2011	1094	3.00	42238
1F2POOL	F2XN109	2010/9/16	3/11/2011	176	0.48	42555
1F2POOL	F2VN65	2009/4/22	3/11/2011	688	1.88	41540
1F2POOL	F2VN66	2009/4/22	3/11/2011	688	1.88	41646
1F2POOL	F2VN67	2009/4/22	3/11/2011	688	1.88	41392
1F2POOL	F2VN68	2009/4/22	3/11/2011	688	1.88	41527
1F2POOL	F2VN69	2009/4/22	3/11/2011	688	1.88	42075
1F2POOL	F2VN70	2009/4/22	3/11/2011	688	1.88	42026
1F2POOL	F2VN71	2009/4/22	3/11/2011	688	1.88	42098
1F2POOL	F2VN72	2009/4/22	3/11/2011	688	1.88	42251
1F2POOL	F2VN73	2009/4/22	3/11/2011	688	1.88	43518
1F2POOL	F2VN74	2009/4/22	3/11/2011	688	1.88	43552
1F2POOL	F2VN75	2009/4/22	3/11/2011	688	1.88	43627
1F2POOL	F2VN76	2009/4/22	3/11/2011	688	1.88	43608
1F2POOL	F2VN77	2009/4/22	3/11/2011	688	1.88	42787
1F2POOL	F2VN78	2009/4/22	3/11/2011	688	1.88	42849
1F2POOL	F2VN79	2009/4/22	3/11/2011	688	1.88	42706
1F2POOL	F2VN80	2009/4/22	3/11/2011	688	1.88	42686
1F2POOL	F2VN81	2009/4/22	3/11/2011	688	1.88	46956
1F2POOL	F2VN82	2009/4/22	3/11/2011	688	1.88	46986
1F2POOL	F2VN83	2009/4/22	3/11/2011	688	1.88	47078
1F2POOL	F2VN84	2009/4/22	3/11/2011	688	1.88	47057
1F2POOL	F2VN85	2009/4/22	3/11/2011	688	1.88	46373
1F2POOL	F2VN87	2009/4/22	3/11/2011	688	1.88	46351
1F2POOL	F2VN88	2009/4/22	3/11/2011	688	1.88	46322

1F2POOL	F2VN90	2009/4/22	3/11/2011	688	1.88	43913
1F2POOL	F2VN91	2009/4/22	3/11/2011	688	1.88	43947
1F2POOL	F2VN93	2009/4/22	3/11/2011	688	1.88	41905
1F2POOL	F2VN94	2009/4/22	3/11/2011	688	1.88	41950
1F2POOL	F2VN96	2009/4/22	3/11/2011	688	1.88	41901
1F2POOL	F2VN23	2009/4/22	3/11/2011	688	1.88	44968
1F2POOL	F2VN26	2009/4/22	3/11/2011	688	1.88	43225
1F2POOL	F2VN50	2009/4/22	3/11/2011	688	1.88	42425
1F2POOL	F2VN53	2009/4/22	3/11/2011	688	1.88	42151
1F2POOL	F2VN56	2009/4/22	3/11/2011	688	1.88	42184
1F2POOL	F2VN59	2009/4/22	3/11/2011	688	1.88	41438
1F2POOL	F2VN61	2009/4/22	3/11/2011	688	1.88	43870
1F2POOL	F2VN86	2009/4/22	3/11/2011	688	1.88	46456
1F2POOL	F2VN89	2009/4/22	3/11/2011	688	1.88	43764
1F2POOL	F2VN92	2009/4/22	3/11/2011	688	1.88	43947
1F2POOL	F2VN95	2009/4/22	3/11/2011	688	1.88	41894
1F2POOL	F2VN12	2010/9/16	3/11/2011	176	0.48	44979
1F2POOL	F2VN13	2009/4/22	3/11/2011	688	1.88	47563
1F2POOL	F2VN14	2009/4/22	3/11/2011	688	1.88	47544
1F2POOL	F2VN15	2009/4/22	3/11/2011	688	1.88	47668
1F2POOL	F2VN16	2009/4/22	3/11/2011	688	1.88	47633
1F2POOL	F2VN17	2009/4/22	3/11/2011	688	1.88	42667
1F2POOL	F2VN18	2009/4/22	3/11/2011	688	1.88	42764
1F2POOL	F2VN19	2009/4/22	3/11/2011	688	1.88	42497
1F2POOL	F2VN20	2009/4/22	3/11/2011	688	1.88	42793
1F2POOL	F2VN21	2009/4/22	3/11/2011	688	1.88	45145
1F2POOL	F2VN22	2009/4/22	3/11/2011	688	1.88	44946
1F2POOL	F2VN24	2009/4/22	3/11/2011	688	1.88	45213
1F2POOL	F2VN25	2009/4/22	3/11/2011	688	1.88	43153
1F2POOL	F2VN27	2009/4/22	3/11/2011	688	1.88	43308
1F2POOL	F2VN28	2009/4/22	3/11/2011	688	1.88	43312
1F2POOL	F2VN29	2009/4/22	3/11/2011	688	1.88	42202
1F2POOL	F2VN30	2009/4/22	3/11/2011	688	1.88	42143
1F2POOL	F2VN31	2009/4/22	3/11/2011	688	1.88	42205
1F2POOL	F2VN32	2009/4/22	3/11/2011	688	1.88	42206
1F2POOL	F2VN33	2010/9/16	3/11/2011	176	0.48	45269
1F2POOL	F2VN34	2010/9/16	3/11/2011	176	0.48	45434
1F2POOL	F2VN35	2010/9/16	3/11/2011	176	0.48	45318
1F2POOL	F2VN36	2010/9/16	3/11/2011	176	0.48	45408
1F2POOL	F2VN37	2009/4/22	3/11/2011	688	1.88	42309
1F2POOL	F2VN38	2009/4/22	3/11/2011	688	1.88	42577
1F2POOL	F2VN39	2009/4/22	3/11/2011	688	1.88	42409
1F2POOL	F2VN40	2009/4/22	3/11/2011	688	1.88	42480
1F2POOL	F2VN41	2010/9/16	3/11/2011	176	0.48	45760
1F2POOL	F2VN42	2010/9/16	3/11/2011	176	0.48	45814
1F2POOL	F2VN43	2010/9/16	3/11/2011	176	0.48	45714
1F2POOL	F2VN44	2010/9/16	3/11/2011	176	0.48	45826
1F2POOL	F2VN45	2009/4/22	3/11/2011	688	1.88	41814
1F2POOL	F2VN46	2009/4/22	3/11/2011	688	1.88	41895
1F2POOL	F2VN47	2009/4/22	3/11/2011	688	1.88	41864
1F2POOL	F2VN48	2009/4/22	3/11/2011	688	1.88	41917
1F2POOL	F2VN49	2009/4/22	3/11/2011	688	1.88	42425
1F2POOL	F2VN51	2009/4/22	3/11/2011	688	1.88	42478

1F2POOL	F2VN52	2009/4/22	3/11/2011	688	1.88	42527
1F2POOL	F2VN54	2009/4/22	3/11/2011	688	1.88	42315
1F2POOL	F2VN55	2009/4/22	3/11/2011	688	1.88	42170
1F2POOL	F2VN57	2009/4/22	3/11/2011	688	1.88	41410
1F2POOL	F2VN58	2009/4/22	3/11/2011	688	1.88	41538
1F2POOL	F2VN60	2009/4/22	3/11/2011	688	1.88	41527
1F2POOL	F2VN62	2009/4/22	3/11/2011	688	1.88	43906
1F2POOL	F2VN63	2009/4/22	3/11/2011	688	1.88	43858
1F2POOL	F2VN64	2009/4/22	3/11/2011	688	1.88	43962
1F2POOL	F2WN60	2010/9/16	3/11/2011	176	0.48	42374
1F2POOL	F2WN19	2010/9/16	3/11/2011	176	0.48	42383
1F2POOL	F2WN20	2010/9/16	3/11/2011	176	0.48	42345
1F2POOL	F2WN21	2010/9/16	3/11/2011	176	0.48	46502
1F2POOL	F2WN22	2010/9/16	3/11/2011	176	0.48	46460
1F2POOL	F2WN23	2010/9/16	3/11/2011	176	0.48	46401
1F2POOL	F2WN24	2010/9/16	3/11/2011	176	0.48	46408
1F2POOL	F2WN25	2010/9/16	3/11/2011	176	0.48	42837
1F2POOL	F2WN26	2010/9/16	3/11/2011	176	0.48	42991
1F2POOL	F2WN27	2010/9/16	3/11/2011	176	0.48	42984
1F2POOL	F2WN28	2010/9/16	3/11/2011	176	0.48	42813
1F2POOL	F2WN29	2010/9/16	3/11/2011	176	0.48	41917
1F2POOL	F2WN30	2010/9/16	3/11/2011	176	0.48	41961
1F2POOL	F2WN31	2010/9/16	3/11/2011	176	0.48	41931
1F2POOL	F2WN32	2010/9/16	3/11/2011	176	0.48	41892
1F2POOL	F2WN33	2010/9/16	3/11/2011	176	0.48	43089
1F2POOL	F2WN34	2010/9/16	3/11/2011	176	0.48	43186
1F2POOL	F2WN35	2010/9/16	3/11/2011	176	0.48	43031
1F2POOL	F2WN36	2010/9/16	3/11/2011	176	0.48	43225
1F2POOL	F2WN37	2010/9/16	3/11/2011	176	0.48	42445
1F2POOL	F2WN38	2010/9/16	3/11/2011	176	0.48	42423
1F2POOL	F2WN40	2010/9/16	3/11/2011	176	0.48	42212
1F2POOL	F2WN41	2010/9/16	3/11/2011	176	0.48	44685
1F2POOL	F2WN43	2010/9/16	3/11/2011	176	0.48	44420
1F2POOL	F2WN44	2010/9/16	3/11/2011	176	0.48	44269
1F2POOL	F2WN46	2010/9/16	3/11/2011	176	0.48	42605
1F2POOL	F2WN47	2010/9/16	3/11/2011	176	0.48	42714
1F2POOL	F2WN1	2010/9/16	3/11/2011	176	0.48	42797
1F2POOL	F2WN2	2010/9/16	3/11/2011	176	0.48	42783
1F2POOL	F2WN3	2010/9/16	3/11/2011	176	0.48	42790
1F2POOL	F2WN4	2010/9/16	3/11/2011	176	0.48	42828
1F2POOL	F2WN5	2010/9/16	3/11/2011	176	0.48	41705
1F2POOL	F2WN6	2010/9/16	3/11/2011	176	0.48	41866
1F2POOL	F2WN7	2010/9/16	3/11/2011	176	0.48	41696
1F2POOL	F2WN8	2010/9/16	3/11/2011	176	0.48	41673
1F2POOL	F2WN9	2010/9/16	3/11/2011	176	0.48	42379
1F2POOL	F2WN10	2010/9/16	3/11/2011	176	0.48	42233
1F2POOL	F2WN11	2010/9/16	3/11/2011	176	0.48	42168
1F2POOL	F2WN12	2010/9/16	3/11/2011	176	0.48	42301
1F2POOL	F2WN13	2010/9/16	3/11/2011	176	0.48	42681
1F2POOL	F2WN14	2010/9/16	3/11/2011	176	0.48	42737
1F2POOL	F2WN15	2010/9/16	3/11/2011	176	0.48	42708
1F2POOL	F2WN16	2010/9/16	3/11/2011	176	0.48	42668
1F2POOL	F2WN17	2010/9/16	3/11/2011	176	0.48	42476

1F2POOL	F2WN18	2010/9/16	3/11/2011	176	0.48	42693
1F2POOL	F2VN105	2010/9/16	3/11/2011	176	0.48	43013
1F2POOL	F2VN106	2010/9/16	3/11/2011	176	0.48	43000
1F2POOL	F2VN107	2010/9/16	3/11/2011	176	0.48	42980
1F2POOL	F2VN108	2010/9/16	3/11/2011	176	0.48	43044
1F2POOL	F2WN49	2010/9/16	3/11/2011	176	0.48	47092
1F2POOL	F2WN51	2010/9/16	3/11/2011	176	0.48	47277
1F2POOL	F2WN52	2010/9/16	3/11/2011	176	0.48	47201
1F2POOL	F2WN57	2010/9/16	3/11/2011	176	0.48	42484
1F2POOL	F2WN58	2010/9/16	3/11/2011	176	0.48	42580
1F2POOL	F2WN59	2010/9/16	3/11/2011	176	0.48	42524
1F2POOL	F2WN61	2010/9/16	3/11/2011	176	0.48	42700
1F2POOL	F2XN110	2010/9/16	3/11/2011	176	0.48	42635
1F2POOL	F2XN111	2010/9/16	3/11/2011	176	0.48	42701
1F2POOL	F2XN112	2010/9/16	3/11/2011	176	0.48	42661
1F2POOL	F2VN1	2010/9/16	3/11/2011	176	0.48	44638
1F2POOL	F2VN2	2010/9/16	3/11/2011	176	0.48	44874
1F2POOL	F2VN3	2010/9/16	3/11/2011	176	0.48	44539
1F2POOL	F2VN4	2010/9/16	3/11/2011	176	0.48	44517
1F2POOL	F2VN5	2010/9/16	3/11/2011	176	0.48	42666
1F2POOL	F2VN6	2010/9/16	3/11/2011	176	0.48	42638
1F2POOL	F2VN7	2010/9/16	3/11/2011	176	0.48	42616
1F2POOL	F2VN8	2010/9/16	3/11/2011	176	0.48	42561
1F2POOL	F2VN9	2010/9/16	3/11/2011	176	0.48	44965
1F2POOL	F2VN10	2010/9/16	3/11/2011	176	0.48	45011
1F2POOL	F2VN11	2010/9/16	3/11/2011	176	0.48	44846
1F2POOL	F2WN62	2010/9/16	3/11/2011	176	0.48	42818
1F2POOL	F2WN63	2010/9/16	3/11/2011	176	0.48	42896
1F2POOL	F2WN64	2010/9/16	3/11/2011	176	0.48	42936
1F2POOL	F2WN65	2010/9/16	3/11/2011	176	0.48	42937
1F2POOL	F2WN66	2010/9/16	3/11/2011	176	0.48	42997
1F2POOL	F2WN67	2010/9/16	3/11/2011	176	0.48	43192
1F2POOL	F2WN68	2010/9/16	3/11/2011	176	0.48	43188
1F2POOL	F2WN69	2010/9/16	3/11/2011	176	0.48	43280
1F2POOL	F2WN70	2010/9/16	3/11/2011	176	0.48	43462
1F2POOL	F2WN71	2010/9/16	3/11/2011	176	0.48	43169
1F2POOL	F2WN72	2010/9/16	3/11/2011	176	0.48	43178
1F2POOL	F2WN73	2010/9/16	3/11/2011	176	0.48	44187
1F2POOL	F2WN74	2010/9/16	3/11/2011	176	0.48	44296
1F2POOL	F2WN76	2010/9/16	3/11/2011	176	0.48	44146
1F2POOL	F2WN77	2010/9/16	3/11/2011	176	0.48	47304
1F2POOL	F2WN79	2010/9/16	3/11/2011	176	0.48	47309
1F2POOL	F2WN80	2010/9/16	3/11/2011	176	0.48	47276
1F2POOL	F2WN105	2010/9/16	3/11/2011	176	0.48	46061
1F2POOL	F2WN106	2010/9/16	3/11/2011	176	0.48	46242
1F2POOL	F2WN107	2010/9/16	3/11/2011	176	0.48	46201
1F2POOL	F2WN108	2010/9/16	3/11/2011	176	0.48	46127
1F2POOL	F2WN109	2010/9/16	3/11/2011	176	0.48	42204
1F2POOL	F2WN110	2010/9/16	3/11/2011	176	0.48	42216
1F2POOL	F2WN111	2010/9/16	3/11/2011	176	0.48	42175
1F2POOL	F2WN113	2010/9/16	3/11/2011	176	0.48	42760
1F2POOL	F2WN114	2010/9/16	3/11/2011	176	0.48	42965
1F2POOL	F2WN116	2010/9/16	3/11/2011	176	0.48	42710

1F2POOL	F2WN39	2010/9/16	3/11/2011	176	0.48	42307
1F2POOL	F2WN42	2010/9/16	3/11/2011	176	0.48	44731
1F2POOL	F2WN45	2010/9/16	3/11/2011	176	0.48	42552
1F2POOL	F2WN48	2010/9/16	3/11/2011	176	0.48	42612
1F2POOL	F2WN50	2010/9/16	3/11/2011	176	0.48	47363
1F2POOL	F2WN75	2010/9/16	3/11/2011	176	0.48	44253
1F2POOL	F2WN78	2010/9/16	3/11/2011	176	0.48	47358
1F2POOL	F2WN112	2010/9/16	3/11/2011	176	0.48	42181
1F2POOL	F2WN115	2010/9/16	3/11/2011	176	0.48	42718
	F2ABN17					
	F2ABN18					
	F2ABN19					
	F2ABN20					
	F2ABN21					
	F2ABN22					
	F2ABN23					
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	F2ABN37					
	F2ABN38					
	F2ABN39					
	F2ABN40					
	F2ABN41					
	F2ABN42					
	F2ABN43					
	F2ABN44					

Unit	Fuel ID	Shutdown Date	Earthquake Date	Cooling Duration (Days)	Cooling Duration (Yeas)	Burn up
				11011 265 1419.53696	MAX= MIN= AVE=	51219 11756 41339.9416
1F3POOL	F3A4	1986/1/10	3/11/2011	9191	25.18	32920
1F3POOL	F3CN4	1981/1/16	3/11/2011	11011	30.17	15653
1F3POOL	F3M1	1994/9/3	3/11/2011	6033	16.53	28199
1F3POOL	F3M2	1994/9/3	3/11/2011	6033	16.53	28037
1F3POOL	F3M3	1994/9/3	3/11/2011	6033	16.53	28186
1F3POOL	F3M4	1994/9/3	3/11/2011	6033	16.53	28014
1F3POOL	F3M5	1994/9/3	3/11/2011	6033	16.53	28073
1F3POOL	F3M6	1994/9/3	3/11/2011	6033	16.53	28249
1F3POOL	F3M7	1994/9/3	3/11/2011	6033	16.53	28127
1F3POOL	F3M8	1994/9/3	3/11/2011	6033	16.53	28242
1F3POOL	F3M26	1997/5/26	3/11/2011	5037	13.80	32682
1F3POOL	F3M38	1994/9/3	3/11/2011	6033	16.53	28273
1F3POOL	F3M40	1994/9/3	3/11/2011	6033	16.53	28266
1F3POOL	F3M41	1994/9/3	3/11/2011	6033	16.53	28300
1F3POOL	F3M57	1994/9/3	3/11/2011	6033	16.53	26779
1F3POOL	F3M58	1994/9/3	3/11/2011	6033	16.53	26783
1F3POOL	F3M59	1994/9/3	3/11/2011	6033	16.53	26775
1F3POOL	F3M60	1994/9/3	3/11/2011	6033	16.53	26790
1F3POOL	F3N85	1997/5/26	3/11/2011	5037	13.80	31539
1F3POOL	F3N86	1997/5/26	3/11/2011	5037	13.80	31493
1F3POOL	F3N87	1997/5/26	3/11/2011	5037	13.80	31540
1F3POOL	F3N88	1997/5/26	3/11/2011	5037	13.80	31496
1F3POOL	F3N89	1997/5/26	3/11/2011	5037	13.80	31510
1F3POOL	F3N90	1997/5/26	3/11/2011	5037	13.80	31539
1F3POOL	F3N91	1997/5/26	3/11/2011	5037	13.80	31476
1F3POOL	F3N130	1997/5/26	3/11/2011	5037	13.80	31705
1F3POOL	F3N132	1997/5/26	3/11/2011	5037	13.80	31710
1F3POOL	F3B6	1983/9/3	3/11/2011	10051	27.54	17812
1F3POOL	F3EN7	1983/9/3	3/11/2011	10051	27.54	15092
1F3POOL	F3C67	1986/1/10	3/11/2011	9191	25.18	33963
1F3POOL	F3M110	1994/9/3	3/11/2011	6033	16.53	26817
1F3POOL	F3M112	1994/9/3	3/11/2011	6033	16.53	26827
1F3POOL	F3N17	1997/5/26	3/11/2011	5037	13.80	31295
1F3POOL	F3N18	1997/5/26	3/11/2011	5037	13.80	31726
1F3POOL	F3T24	2004/8/6	3/11/2011	2408	6.60	37968
1F3POOL	F3T145	2007/9/1	3/11/2011	1287	3.53	43455
1F3POOL	F3T146	2007/9/1	3/11/2011	1287	3.53	43568
1F3POOL	F3T147	2007/9/1	3/11/2011	1287	3.53	43493
1F3POOL	F3T148	2007/9/1	3/11/2011	1287	3.53	43576
1F3POOL	F3T149	2006/2/22	3/11/2011	1843	5.05	38616
1F3POOL	F3T150	2007/9/1	3/11/2011	1287	3.53	43814
1F3POOL	F3T151	2006/2/22	3/11/2011	1843	5.05	38639
1F3POOL	F3T152	2006/2/22	3/11/2011	1843	5.05	38596
1F3POOL	F3T29	2004/8/6	3/11/2011	2408	6.60	37203
1F3POOL	F3T30	2004/8/6	3/11/2011	2408	6.60	37102
1F3POOL	F3T31	2004/8/6	3/11/2011	2408	6.60	37193
1F3POOL	F3T32	2004/8/6	3/11/2011	2408	6.60	37125
1F3POOL	F3T46	2004/8/6	3/11/2011	2408	6.60	36863

1F3POOL	F3T48	2004/8/6	3/11/2011	2408	6.60	36867
1F3POOL	F3T49	2004/8/6	3/11/2011	2408	6.60	36856
1F3POOL	F3T51	2004/8/6	3/11/2011	2408	6.60	36868
1F3POOL	F3T53	2004/8/6	3/11/2011	2408	6.60	38887
1F3POOL	F3T54	2004/8/6	3/11/2011	2408	6.60	38816
1F3POOL	F3T55	2004/8/6	3/11/2011	2408	6.60	38934
1F3POOL	F3T56	2004/8/6	3/11/2011	2408	6.60	38863
1F3POOL	F3T57	2004/8/6	3/11/2011	2408	6.60	38788
1F3POOL	F3T58	2004/8/6	3/11/2011	2408	6.60	38844
1F3POOL	F3T59	2004/8/6	3/11/2011	2408	6.60	38769
1F3POOL	F3T60	2004/8/6	3/11/2011	2408	6.60	38888
1F3POOL	F3T69	2004/8/6	3/11/2011	2408	6.60	38044
1F3POOL	F3T70	2004/8/6	3/11/2011	2408	6.60	38059
1F3POOL	F3T71	2004/8/6	3/11/2011	2408	6.60	38057
1F3POOL	F3T72	2004/8/6	3/11/2011	2408	6.60	38106
1F3POOL	F3T101	2004/8/6	3/11/2011	2408	6.60	38796
1F3POOL	F3T102	2004/8/6	3/11/2011	2408	6.60	38784
1F3POOL	F3T103	2004/8/6	3/11/2011	2408	6.60	38798
1F3POOL	F3T104	2004/8/6	3/11/2011	2408	6.60	38790
1F3POOL	F3T113	2004/8/6	3/11/2011	2408	6.60	38813
1F3POOL	F3T114	2004/8/6	3/11/2011	2408	6.60	38739
1F3POOL	F3T115	2004/8/6	3/11/2011	2408	6.60	38819
1F3POOL	F3T116	2004/8/6	3/11/2011	2408	6.60	38735
1F3POOL	F3T117	2004/8/6	3/11/2011	2408	6.60	37819
1F3POOL	F3T118	2004/8/6	3/11/2011	2408	6.60	37827
1F3POOL	F3T119	2004/8/6	3/11/2011	2408	6.60	37802
1F3POOL	F3T120	2004/8/6	3/11/2011	2408	6.60	37821
1F3POOL	F3T123	2004/8/6	3/11/2011	2408	6.60	39071
1F3POOL	F3T126	2004/8/6	3/11/2011	2408	6.60	39002
1F3POOL	F3T127	2004/8/6	3/11/2011	2408	6.60	39060
1F3POOL	F3T128	2004/8/6	3/11/2011	2408	6.60	39011
1F3POOL	F3T130	2004/8/6	3/11/2011	2408	6.60	38183
1F3POOL	F3T131	2004/8/6	3/11/2011	2408	6.60	38189
1F3POOL	F3T132	2004/8/6	3/11/2011	2408	6.60	38171
1F3POOL	F3T133	2004/8/6	3/11/2011	2408	6.60	38675
1F3POOL	F3T135	2004/8/6	3/11/2011	2408	6.60	38666
1F3POOL	F3T136	2004/8/6	3/11/2011	2408	6.60	38803
1F3POOL	F3T1	2004/8/6	3/11/2011	2408	6.60	38978
1F3POOL	F3T2	2004/8/6	3/11/2011	2408	6.60	39029
1F3POOL	F3T3	2004/8/6	3/11/2011	2408	6.60	38919
1F3POOL	F3T4	2004/8/6	3/11/2011	2408	6.60	39017
1F3POOL	F3T9	2004/8/6	3/11/2011	2408	6.60	38658
1F3POOL	F3T10	2004/8/6	3/11/2011	2408	6.60	38659
1F3POOL	F3T11	2004/8/6	3/11/2011	2408	6.60	38669
1F3POOL	F3T12	2004/8/6	3/11/2011	2408	6.60	38647
1F3POOL	F3T13	2004/8/6	3/11/2011	2408	6.60	38085
1F3POOL	F3T14	2004/8/6	3/11/2011	2408	6.60	38096
1F3POOL	F3T15	2004/8/6	3/11/2011	2408	6.60	38072
1F3POOL	F3T16	2004/8/6	3/11/2011	2408	6.60	38096
1F3POOL	F3T17	2004/8/6	3/11/2011	2408	6.60	38583
1F3POOL	F3T18	2004/8/6	3/11/2011	2408	6.60	38556
1F3POOL	F3T19	2004/8/6	3/11/2011	2408	6.60	38585
1F3POOL	F3T20	2004/8/6	3/11/2011	2408	6.60	38548

1F3POOL	F3T21	2004/8/6	3/11/2011	2408	6.60	37921
1F3POOL	F3T22	2004/8/6	3/11/2011	2408	6.60	37977
1F3POOL	F3T23	2004/8/6	3/11/2011	2408	6.60	37915
1F3POOL	F3N163	1997/5/26	3/11/2011	5037	13.80	32519
1F3POOL	F3N201	1997/5/26	3/11/2011	5037	13.80	31326
1F3POOL	F3N202	1997/5/26	3/11/2011	5037	13.80	31459
1F3POOL	F3N204	1997/5/26	3/11/2011	5037	13.80	31401
1F3POOL	F3A2	1986/1/10	3/11/2011	9191	25.18	34052
1F3POOL	F3V1	2007/9/1	3/11/2011	1287	3.53	42985
1F3POOL	F3V2	2007/9/1	3/11/2011	1287	3.53	42995
1F3POOL	F3V3	2007/9/1	3/11/2011	1287	3.53	43003
1F3POOL	F3V4	2007/9/1	3/11/2011	1287	3.53	42732
1F3POOL	F3V5	2007/9/1	3/11/2011	1287	3.53	42799
1F3POOL	F3V6	2007/9/1	3/11/2011	1287	3.53	42953
1F3POOL	F3V7	2007/9/1	3/11/2011	1287	3.53	42893
1F3POOL	F3V8	2007/9/1	3/11/2011	1287	3.53	42901
1F3POOL	F3V9	2009/2/24	3/11/2011	745	2.04	44314
1F3POOL	F3V10	2009/2/24	3/11/2011	745	2.04	44417
1F3POOL	F3V11	2009/2/24	3/11/2011	745	2.04	44405
1F3POOL	F3V12	2009/2/24	3/11/2011	745	2.04	44380
1F3POOL	F3V13	2007/9/1	3/11/2011	1287	3.53	43031
1F3POOL	F3V14	2007/9/1	3/11/2011	1287	3.53	43042
1F3POOL	F3V15	2007/9/1	3/11/2011	1287	3.53	43115
1F3POOL	F3V16	2007/9/1	3/11/2011	1287	3.53	43139
1F3POOL	F3V17	2007/9/1	3/11/2011	1287	3.53	41565
1F3POOL	F3V18	2007/9/1	3/11/2011	1287	3.53	41678
1F3POOL	F3V19	2007/9/1	3/11/2011	1287	3.53	41673
1F3POOL	F3V20	2007/9/1	3/11/2011	1287	3.53	41672
1F3POOL	F3V21	2009/2/24	3/11/2011	745	2.04	45744
1F3POOL	F3V22	2009/2/24	3/11/2011	745	2.04	45833
1F3POOL	F3V23	2009/2/24	3/11/2011	745	2.04	45772
1F3POOL	F3V24	2009/2/24	3/11/2011	745	2.04	45769
1F3POOL	F3V25	2009/2/24	3/11/2011	745	2.04	45786
1F3POOL	F3V26	2009/2/24	3/11/2011	745	2.04	45756
1F3POOL	F3V27	2009/2/24	3/11/2011	745	2.04	45781
1F3POOL	F3V28	2009/2/24	3/11/2011	745	2.04	45293
1F3POOL	F3V29	2007/9/1	3/11/2011	1287	3.53	42008
1F3POOL	F3V30	2007/9/1	3/11/2011	1287	3.53	41906
1F3POOL	F3V31	2007/9/1	3/11/2011	1287	3.53	42002
1F3POOL	F3V32	2007/9/1	3/11/2011	1287	3.53	41745
1F3POOL	F3V33	2009/2/24	3/11/2011	745	2.04	45754
1F3POOL	F3V34	2009/2/24	3/11/2011	745	2.04	45871
1F3POOL	F3V35	2009/2/24	3/11/2011	745	2.04	45848
1F3POOL	F3V36	2009/2/24	3/11/2011	745	2.04	45862
1F3POOL	F3V37	2007/9/1	3/11/2011	1287	3.53	45116
1F3POOL	F3V38	2007/9/1	3/11/2011	1287	3.53	45232
1F3POOL	F3V39	2007/9/1	3/11/2011	1287	3.53	45239
1F3POOL	F3V41	2007/9/1	3/11/2011	1287	3.53	41651
1F3POOL	F3U80	2007/9/1	3/11/2011	1287	3.53	39676
1F3POOL	F3U81	2007/9/1	3/11/2011	1287	3.53	41465
1F3POOL	F3U82	2007/9/1	3/11/2011	1287	3.53	41526
1F3POOL	F3U83	2007/9/1	3/11/2011	1287	3.53	41469
1F3POOL	F3U84	2007/9/1	3/11/2011	1287	3.53	41506

1F3POOL	F3U85	2007/9/1	3/11/2011	1287	3.53	39436
1F3POOL	F3U86	2007/9/1	3/11/2011	1287	3.53	39464
1F3POOL	F3U87	2007/9/1	3/11/2011	1287	3.53	39469
1F3POOL	F3U88	2007/9/1	3/11/2011	1287	3.53	39437
1F3POOL	F3U89	2007/9/1	3/11/2011	1287	3.53	37645
1F3POOL	F3U90	2007/9/1	3/11/2011	1287	3.53	37645
1F3POOL	F3U91	2007/9/1	3/11/2011	1287	3.53	37646
1F3POOL	F3U92	2007/9/1	3/11/2011	1287	3.53	37592
1F3POOL	F3U97	2007/9/1	3/11/2011	1287	3.53	39976
1F3POOL	F3U98	2007/9/1	3/11/2011	1287	3.53	40015
1F3POOL	F3U99	2007/9/1	3/11/2011	1287	3.53	40012
1F3POOL	F3U100	2007/9/1	3/11/2011	1287	3.53	40005
1F3POOL	F3U101	2007/9/1	3/11/2011	1287	3.53	40168
1F3POOL	F3U104	2007/9/1	3/11/2011	1287	3.53	40275
1F3POOL	F3L85	1994/9/3	3/11/2011	6033	16.53	39296
1F3POOL	F3N19	1997/5/26	3/11/2011	5037	13.80	31349
1F3POOL	F3N203	1997/5/26	3/11/2011	5037	13.80	31465
1F3POOL	F3U41	2007/9/1	3/11/2011	1287	3.53	40513
1F3POOL	F3U79	2007/9/1	3/11/2011	1287	3.53	39743
1F3POOL	F3U113	2007/9/1	3/11/2011	1287	3.53	42062
1F3POOL	F3U114	2007/9/1	3/11/2011	1287	3.53	42032
1F3POOL	F3U115	2007/9/1	3/11/2011	1287	3.53	42077
1F3POOL	F3U116	2007/9/1	3/11/2011	1287	3.53	42002
1F3POOL	F3U30	2007/9/1	3/11/2011	1287	3.53	42440
1F3POOL	F3U62	2007/9/1	3/11/2011	1287	3.53	40648
1F3POOL	F3U67	2007/9/1	3/11/2011	1287	3.53	40754
1F3POOL	F3U72	2007/9/1	3/11/2011	1287	3.53	41267
1F3POOL	F3U77	2007/9/1	3/11/2011	1287	3.53	39746
1F3POOL	F3U102	2007/9/1	3/11/2011	1287	3.53	40293
1F3POOL	F3U39	2007/9/1	3/11/2011	1287	3.53	40806
1F3POOL	F3U2	2006/2/22	3/11/2011	1843	5.05	38666
1F3POOL	F3U3	2006/2/22	3/11/2011	1843	5.05	38663
1F3POOL	F3U4	2006/2/22	3/11/2011	1843	5.05	38668
1F3POOL	F3U5	2007/9/1	3/11/2011	1287	3.53	42978
1F3POOL	F3U6	2007/9/1	3/11/2011	1287	3.53	42809
1F3POOL	F3U7	2007/9/1	3/11/2011	1287	3.53	42994
1F3POOL	F3U8	2007/9/1	3/11/2011	1287	3.53	42904
1F3POOL	F3U9	2007/9/1	3/11/2011	1287	3.53	43050
1F3POOL	F3U10	2007/9/1	3/11/2011	1287	3.53	42997
1F3POOL	F3U11	2007/9/1	3/11/2011	1287	3.53	43036
1F3POOL	F3U12	2007/9/1	3/11/2011	1287	3.53	43025
1F3POOL	F3U29	2007/9/1	3/11/2011	1287	3.53	42451
1F3POOL	F3U31	2007/9/1	3/11/2011	1287	3.53	42447
1F3POOL	F3U32	2007/9/1	3/11/2011	1287	3.53	42388
1F3POOL	F3U1	2006/2/22	3/11/2011	1843	5.05	38651
1F3POOL	F3U103	2007/9/1	3/11/2011	1287	3.53	40196
1F3POOL	F3T129	2004/8/6	3/11/2011	2408	6.60	38187
1F3POOL	F3U37	2007/9/1	3/11/2011	1287	3.53	40762
1F3POOL	F3U38	2007/9/1	3/11/2011	1287	3.53	40626
1F3POOL	F3U40	2007/9/1	3/11/2011	1287	3.53	40607
1F3POOL	F3U42	2007/9/1	3/11/2011	1287	3.53	40739
1F3POOL	F3U43	2007/9/1	3/11/2011	1287	3.53	40516
1F3POOL	F3U44	2007/9/1	3/11/2011	1287	3.53	40720

1F3POOL	F3U49	2007/9/1	3/11/2011	1287	3.53	43860
1F3POOL	F3U50	2006/2/22	3/11/2011	1843	5.05	38591
1F3POOL	F3U51	2007/9/1	3/11/2011	1287	3.53	43880
1F3POOL	F3U52	2007/9/1	3/11/2011	1287	3.53	43846
1F3POOL	F3U57	2007/9/1	3/11/2011	1287	3.53	40176
1F3POOL	F3U58	2007/9/1	3/11/2011	1287	3.53	40167
1F3POOL	F3U59	2007/9/1	3/11/2011	1287	3.53	40187
1F3POOL	F3U60	2007/9/1	3/11/2011	1287	3.53	40149
1F3POOL	F3U61	2007/9/1	3/11/2011	1287	3.53	40617
1F3POOL	F3U63	2007/9/1	3/11/2011	1287	3.53	40611
1F3POOL	F3U64	2007/9/1	3/11/2011	1287	3.53	40608
1F3POOL	F3U65	2007/9/1	3/11/2011	1287	3.53	40710
1F3POOL	F3U66	2007/9/1	3/11/2011	1287	3.53	40737
1F3POOL	F3U68	2007/9/1	3/11/2011	1287	3.53	40728
1F3POOL	F3U69	2007/9/1	3/11/2011	1287	3.53	41303
1F3POOL	F3U70	2007/9/1	3/11/2011	1287	3.53	41320
1F3POOL	F3U71	2007/9/1	3/11/2011	1287	3.53	41295
1F3POOL	F3U73	2007/9/1	3/11/2011	1287	3.53	41064
1F3POOL	F3U74	2007/9/1	3/11/2011	1287	3.53	41109
1F3POOL	F3U75	2007/9/1	3/11/2011	1287	3.53	41057
1F3POOL	F3U76	2007/9/1	3/11/2011	1287	3.53	41057
1F3POOL	F3U78	2007/9/1	3/11/2011	1287	3.53	39692
1F3POOL	F3T134	2004/8/6	3/11/2011	2408	6.60	38800
1F3POOL	F3V42	2007/9/1	3/11/2011	1287	3.53	41731
1F3POOL	F3V44	2009/2/24	3/11/2011	745	2.04	44659
1F3POOL	F3V45	2007/9/1	3/11/2011	1287	3.53	45719
1F3POOL	F3V47	2007/9/1	3/11/2011	1287	3.53	45725
1F3POOL	F3V48	2007/9/1	3/11/2011	1287	3.53	45465
1F3POOL	F3V50	2007/9/1	3/11/2011	1287	3.53	45921
1F3POOL	F3V51	2007/9/1	3/11/2011	1287	3.53	45894
1F3POOL	F3V52	2007/9/1	3/11/2011	1287	3.53	45884
1F3POOL	F3V53	2007/9/1	3/11/2011	1287	3.53	43139
1F3POOL	F3V54	2007/9/1	3/11/2011	1287	3.53	43231
1F3POOL	F3V55	2007/9/1	3/11/2011	1287	3.53	43199
1F3POOL	F3V56	2007/9/1	3/11/2011	1287	3.53	43145
1F3POOL	F3V57	2009/2/24	3/11/2011	745	2.04	49682
1F3POOL	F3V58	2009/2/24	3/11/2011	745	2.04	49693
1F3POOL	F3V59	2009/2/24	3/11/2011	745	2.04	49652
1F3POOL	F3V60	2009/2/24	3/11/2011	745	2.04	49596
1F3POOL	F3V61	2007/9/1	3/11/2011	1287	3.53	41799
1F3POOL	F3V62	2007/9/1	3/11/2011	1287	3.53	41818
1F3POOL	F3V63	2007/9/1	3/11/2011	1287	3.53	41819
1F3POOL	F3V64	2009/2/24	3/11/2011	745	2.04	48029
1F3POOL	F3V65	2007/9/1	3/11/2011	1287	3.53	44612
1F3POOL	F3V66	2007/9/1	3/11/2011	1287	3.53	44499
1F3POOL	F3V67	2007/9/1	3/11/2011	1287	3.53	44615
1F3POOL	F3V68	2007/9/1	3/11/2011	1287	3.53	44506
1F3POOL	F3V69	2007/9/1	3/11/2011	1287	3.53	41661
1F3POOL	F3V70	2007/9/1	3/11/2011	1287	3.53	41761
1F3POOL	F3V71	2007/9/1	3/11/2011	1287	3.53	41757
1F3POOL	F3V72	2007/9/1	3/11/2011	1287	3.53	41745
1F3POOL	F3V73	2007/9/1	3/11/2011	1287	3.53	41758
1F3POOL	F3V75	2007/9/1	3/11/2011	1287	3.53	41856

1F3POOL	F3V76	2007/9/1	3/11/2011	1287	3.53	41903
1F3POOL	F3V78	2009/2/24	3/11/2011	745	2.04	45922
1F3POOL	F3V79	2009/2/24	3/11/2011	745	2.04	45844
1F3POOL	F3V81	2009/2/24	3/11/2011	745	2.04	45793
1F3POOL	F3V82	2009/2/24	3/11/2011	745	2.04	45769
1F3POOL	F3V84	2009/2/24	3/11/2011	745	2.04	45607
1F3POOL	F3V85	2009/2/24	3/11/2011	745	2.04	44424
1F3POOL	F3V86	2007/9/1	3/11/2011	1287	3.53	41572
1F3POOL	F3V87	2009/2/24	3/11/2011	745	2.04	44435
1F3POOL	F3V88	2009/2/24	3/11/2011	745	2.04	44541
1F3POOL	F3V89	2009/2/24	3/11/2011	745	2.04	45090
1F3POOL	F3V90	2009/2/24	3/11/2011	745	2.04	44988
1F3POOL	F3V91	2009/2/24	3/11/2011	745	2.04	45313
1F3POOL	F3V92	2009/2/24	3/11/2011	745	2.04	44902
1F3POOL	F3V93	2009/2/24	3/11/2011	745	2.04	51179
1F3POOL	F3V94	2009/2/24	3/11/2011	745	2.04	51219
1F3POOL	F3V95	2009/2/24	3/11/2011	745	2.04	51188
1F3POOL	F3V96	2009/2/24	3/11/2011	745	2.04	51078
1F3POOL	F3V97	2009/2/24	3/11/2011	745	2.04	50878
1F3POOL	F3V98	2009/2/24	3/11/2011	745	2.04	50904
1F3POOL	F3V99	2009/2/24	3/11/2011	745	2.04	50871
1F3POOL	F3V100	2009/2/24	3/11/2011	745	2.04	50804
1F3POOL	F3V101	2009/2/24	3/11/2011	745	2.04	45569
1F3POOL	F3V102	2009/2/24	3/11/2011	745	2.04	45719
1F3POOL	F3V103	2009/2/24	3/11/2011	745	2.04	45597
1F3POOL	F3V104	2009/2/24	3/11/2011	745	2.04	45611
1F3POOL	F3V105	2009/2/24	3/11/2011	745	2.04	45395
1F3POOL	F3V106	2009/2/24	3/11/2011	745	2.04	45336
1F3POOL	F3V108	2009/2/24	3/11/2011	745	2.04	45024
1F3POOL	F3V109	2007/9/1	3/11/2011	1287	3.53	42292
1F3POOL	F3V111	2007/9/1	3/11/2011	1287	3.53	42321
1F3POOL	F3V112	2007/9/1	3/11/2011	1287	3.53	42228
1F3POOL	F3V114	2007/9/1	3/11/2011	1287	3.53	42139
1F3POOL	F3V115	2007/9/1	3/11/2011	1287	3.53	42136
1F3POOL	F3V116	2007/9/1	3/11/2011	1287	3.53	42136
1F3POOL	F3V118	2009/2/24	3/11/2011	745	2.04	45360
1F3POOL	F3V119	2009/2/24	3/11/2011	745	2.04	45378
1F3POOL	F3V120	2009/2/24	3/11/2011	745	2.04	44383
1F3POOL	F3V121	2009/2/24	3/11/2011	745	2.04	51128
1F3POOL	F3V122	2009/2/24	3/11/2011	745	2.04	51133
1F3POOL	F3V123	2009/2/24	3/11/2011	745	2.04	51138
1F3POOL	F3V124	2009/2/24	3/11/2011	745	2.04	51132
1F3POOL	F3V40	2007/9/1	3/11/2011	1287	3.53	45174
1F3POOL	F3V43	2007/9/1	3/11/2011	1287	3.53	41702
1F3POOL	F3V46	2007/9/1	3/11/2011	1287	3.53	45611
1F3POOL	F3V49	2007/9/1	3/11/2011	1287	3.53	45743
1F3POOL	F3V74	2007/9/1	3/11/2011	1287	3.53	41902
1F3POOL	F3V77	2009/2/24	3/11/2011	745	2.04	45813
1F3POOL	F3V80	2009/2/24	3/11/2011	745	2.04	45946
1F3POOL	F3V83	2009/2/24	3/11/2011	745	2.04	45773
1F3POOL	F3V107	2009/2/24	3/11/2011	745	2.04	45403
1F3POOL	F3V110	2007/9/1	3/11/2011	1287	3.53	42158
1F3POOL	F3V113	2007/9/1	3/11/2011	1287	3.53	42113

1F3POOL	F3V117	2009/2/24	3/11/2011	745	2.04	45403
1F3POOL	F3AA41	2010/6/19	3/11/2011	265	0.73	41416
1F3POOL	F3AA42	2010/6/19	3/11/2011	265	0.73	41559
1F3POOL	F3AA43	2010/6/19	3/11/2011	265	0.73	41426
1F3POOL	F3AA44	2010/6/19	3/11/2011	265	0.73	41528
1F3POOL	F3W108	2010/6/19	3/11/2011	265	0.73	39027
1F3POOL	F3W109	2009/2/24	3/11/2011	745	2.04	43663
1F3POOL	F3W110	2009/2/24	3/11/2011	745	2.04	43612
1F3POOL	F3W111	2009/2/24	3/11/2011	745	2.04	43652
1F3POOL	F3W112	2009/2/24	3/11/2011	745	2.04	43489
1F3POOL	F3W113	2010/6/19	3/11/2011	265	0.73	40252
1F3POOL	F3W114	2010/6/19	3/11/2011	265	0.73	40392
1F3POOL	F3W115	2010/6/19	3/11/2011	265	0.73	40458
1F3POOL	F3W116	2010/6/19	3/11/2011	265	0.73	39907
1F3POOL	F3W117	2010/6/19	3/11/2011	265	0.73	40604
1F3POOL	F3W118	2010/6/19	3/11/2011	265	0.73	40713
1F3POOL	F3W119	2010/6/19	3/11/2011	265	0.73	40673
1F3POOL	F3W120	2010/6/19	3/11/2011	265	0.73	40342
1F3POOL	F3W121	2010/6/19	3/11/2011	265	0.73	46831
1F3POOL	F3W122	2010/6/19	3/11/2011	265	0.73	46924
1F3POOL	F3W123	2010/6/19	3/11/2011	265	0.73	46852
1F3POOL	F3W124	2010/6/19	3/11/2011	265	0.73	46824
1F3POOL	F3W125	2009/2/24	3/11/2011	745	2.04	42012
1F3POOL	F3W126	2010/6/19	3/11/2011	265	0.73	45388
1F3POOL	F3W127	2009/2/24	3/11/2011	745	2.04	42014
1F3POOL	F3W129	2010/6/19	3/11/2011	265	0.73	45271
1F3POOL	F3W130	2010/6/19	3/11/2011	265	0.73	45544
1F3POOL	F3W132	2009/2/24	3/11/2011	745	2.04	41865
1F3POOL	F3W133	2010/6/19	3/11/2011	265	0.73	47786
1F3POOL	F3W135	2010/6/19	3/11/2011	265	0.73	47771
1F3POOL	F3W136	2010/6/19	3/11/2011	265	0.73	47616
1F3POOL	F3W138	2010/6/19	3/11/2011	265	0.73	48350
1F3POOL	F3W139	2010/6/19	3/11/2011	265	0.73	48179
1F3POOL	F3W145	2010/6/19	3/11/2011	265	0.73	38145
1F3POOL	F3W146	2010/6/19	3/11/2011	265	0.73	38069
1F3POOL	F3AA65	2010/6/19	3/11/2011	265	0.73	42380
1F3POOL	F3AA66	2010/6/19	3/11/2011	265	0.73	42073
1F3POOL	F3AA67	2010/6/19	3/11/2011	265	0.73	42385
1F3POOL	F3AA68	2010/6/19	3/11/2011	265	0.73	42037
1F3POOL	F3AA69	2010/6/19	3/11/2011	265	0.73	44865
1F3POOL	F3AA70	2010/6/19	3/11/2011	265	0.73	44632
1F3POOL	F3AA71	2010/6/19	3/11/2011	265	0.73	44902
1F3POOL	F3AA72	2010/6/19	3/11/2011	265	0.73	44823
1F3POOL	F3AA78	2010/6/19	3/11/2011	265	0.73	37253
1F3POOL	F3AA79	2010/6/19	3/11/2011	265	0.73	37248
1F3POOL	F3AA80	2010/6/19	3/11/2011	265	0.73	37226
1F3POOL	F3AA85	2010/6/19	3/11/2011	265	0.73	42033
1F3POOL	F3AA87	2010/6/19	3/11/2011	265	0.73	42055
1F3POOL	F3AA88	2010/6/19	3/11/2011	265	0.73	42369
1F3POOL	F3AA90	2010/6/19	3/11/2011	265	0.73	37634
1F3POOL	F3AA91	2010/6/19	3/11/2011	265	0.73	37596
1F3POOL	F3AA93	2010/6/19	3/11/2011	265	0.73	37419
1F3POOL	F3AA94	2010/6/19	3/11/2011	265	0.73	37427

1F3POOL	F3AA95	2010/6/19	3/11/2011	265	0.73	37405
1F3POOL	F3AA118	2010/6/19	3/11/2011	265	0.73	37608
1F3POOL	F3AA119	2010/6/19	3/11/2011	265	0.73	37506
1F3POOL	F3AA121	2010/6/19	3/11/2011	265	0.73	41985
1F3POOL	F3AA122	2010/6/19	3/11/2011	265	0.73	41878
1F3POOL	F3AA124	2010/6/19	3/11/2011	265	0.73	41617
1F3POOL	F3AA125	2010/6/19	3/11/2011	265	0.73	41997
1F3POOL	F3AA126	2010/6/19	3/11/2011	265	0.73	42084
1F3POOL	F3AA127	2010/6/19	3/11/2011	265	0.73	41992
1F3POOL	F3AA128	2010/6/19	3/11/2011	265	0.73	41991
1F3POOL	F3AA24	2010/6/19	3/11/2011	265	0.73	41037
1F3POOL	F3AA27	2010/6/19	3/11/2011	265	0.73	39487
1F3POOL	F3AA86	2010/6/19	3/11/2011	265	0.73	42350
1F3POOL	F3AA89	2010/6/19	3/11/2011	265	0.73	37539
1F3POOL	F3AA92	2010/6/19	3/11/2011	265	0.73	37571
1F3POOL	F3AA117	2010/6/19	3/11/2011	265	0.73	37524
1F3POOL	F3AA123	2010/6/19	3/11/2011	265	0.73	41961
1F3POOL	F3AA17	2010/6/19	3/11/2011	265	0.73	41274
1F3POOL	F3AA18	2010/6/19	3/11/2011	265	0.73	41235
1F3POOL	F3AA19	2010/6/19	3/11/2011	265	0.73	41286
1F3POOL	F3AA20	2010/6/19	3/11/2011	265	0.73	41142
1F3POOL	F3AA21	2010/6/19	3/11/2011	265	0.73	41192
1F3POOL	F3AA22	2010/6/19	3/11/2011	265	0.73	41025
1F3POOL	F3AA23	2010/6/19	3/11/2011	265	0.73	41198
1F3POOL	F3AA25	2010/6/19	3/11/2011	265	0.73	39469
1F3POOL	F3AA26	2010/6/19	3/11/2011	265	0.73	39538
1F3POOL	F3AA28	2010/6/19	3/11/2011	265	0.73	39586
1F3POOL	F3AA29	2010/6/19	3/11/2011	265	0.73	40911
1F3POOL	F3AA32	2010/6/19	3/11/2011	265	0.73	40802
1F3POOL	F3AA33	2010/6/19	3/11/2011	265	0.73	41571
1F3POOL	F3AA34	2010/6/19	3/11/2011	265	0.73	41584
1F3POOL	F3AA35	2010/6/19	3/11/2011	265	0.73	41540
1F3POOL	F3AA36	2010/6/19	3/11/2011	265	0.73	41482
1F3POOL	F3W39	2009/2/24	3/11/2011	745	2.04	42060
1F3POOL	F3W40	2009/2/24	3/11/2011	745	2.04	42160
1F3POOL	F3W41	2009/2/24	3/11/2011	745	2.04	43147
1F3POOL	F3W42	2009/2/24	3/11/2011	745	2.04	43182
1F3POOL	F3W43	2009/2/24	3/11/2011	745	2.04	43183
1F3POOL	F3W44	2009/2/24	3/11/2011	745	2.04	43150
1F3POOL	F3W45	2009/2/24	3/11/2011	745	2.04	43049
1F3POOL	F3W46	2009/2/24	3/11/2011	745	2.04	43073
1F3POOL	F3W47	2009/2/24	3/11/2011	745	2.04	43048
1F3POOL	F3W48	2009/2/24	3/11/2011	745	2.04	42979
1F3POOL	F3W49	2010/6/19	3/11/2011	265	0.73	46798
1F3POOL	F3W50	2010/6/19	3/11/2011	265	0.73	46756
1F3POOL	F3W51	2010/6/19	3/11/2011	265	0.73	46767
1F3POOL	F3W52	2010/6/19	3/11/2011	265	0.73	46678
1F3POOL	F3W53	2010/6/19	3/11/2011	265	0.73	46599
1F3POOL	F3W54	2010/6/19	3/11/2011	265	0.73	46366
1F3POOL	F3W55	2010/6/19	3/11/2011	265	0.73	46576
1F3POOL	F3W56	2010/6/19	3/11/2011	265	0.73	45919
1F3POOL	F3W57	2010/6/19	3/11/2011	265	0.73	45099
1F3POOL	F3W58	2009/2/24	3/11/2011	745	2.04	41868

1F3POOL	F3W59	2010/6/19	3/11/2011	265	0.73	45273
1F3POOL	F3W60	2010/6/19	3/11/2011	265	0.73	47670
1F3POOL	F3W61	2010/6/19	3/11/2011	265	0.73	45901
1F3POOL	F3W63	2010/6/19	3/11/2011	265	0.73	45906
1F3POOL	F3W64	2010/6/19	3/11/2011	265	0.73	45456
1F3POOL	F3W66	2009/2/24	3/11/2011	745	2.04	43146
1F3POOL	F3W67	2009/2/24	3/11/2011	745	2.04	42936
1F3POOL	F3W69	2010/6/19	3/11/2011	265	0.73	47020
1F3POOL	F3W70	2010/6/19	3/11/2011	265	0.73	46876
1F3POOL	F3W72	2010/6/19	3/11/2011	265	0.73	47032
1F3POOL	F3W73	2010/6/19	3/11/2011	265	0.73	47004
1F3POOL	F3W74	2010/6/19	3/11/2011	265	0.73	46876
1F3POOL	F3W75	2010/6/19	3/11/2011	265	0.73	46991
1F3POOL	F3W76	2010/6/19	3/11/2011	265	0.73	46859
1F3POOL	F3W77	2010/6/19	3/11/2011	265	0.73	45672
1F3POOL	F3W78	2010/6/19	3/11/2011	265	0.73	45724
1F3POOL	F3W79	2010/6/19	3/11/2011	265	0.73	45690
1F3POOL	F3W80	2010/6/19	3/11/2011	265	0.73	45759
1F3POOL	F3W81	2010/6/19	3/11/2011	265	0.73	40755
1F3POOL	F3W82	2010/6/19	3/11/2011	265	0.73	40816
1F3POOL	F3W83	2010/6/19	3/11/2011	265	0.73	40780
1F3POOL	F3W84	2010/6/19	3/11/2011	265	0.73	40712
1F3POOL	F3W85	2009/2/24	3/11/2011	745	2.04	43778
1F3POOL	F3W86	2009/2/24	3/11/2011	745	2.04	43772
1F3POOL	F3W87	2009/2/24	3/11/2011	745	2.04	43771
1F3POOL	F3W88	2009/2/24	3/11/2011	745	2.04	43725
1F3POOL	F3W89	2010/6/19	3/11/2011	265	0.73	40844
1F3POOL	F3W90	2010/6/19	3/11/2011	265	0.73	40949
1F3POOL	F3W91	2010/6/19	3/11/2011	265	0.73	40892
1F3POOL	F3W92	2010/6/19	3/11/2011	265	0.73	40869
1F3POOL	F3W93	2009/2/24	3/11/2011	745	2.04	41862
1F3POOL	F3W94	2009/2/24	3/11/2011	745	2.04	41860
1F3POOL	F3W95	2009/2/24	3/11/2011	745	2.04	41868
1F3POOL	F3W97	2009/2/24	3/11/2011	745	2.04	42658
1F3POOL	F3W98	2009/2/24	3/11/2011	745	2.04	42762
1F3POOL	F3W100	2009/2/24	3/11/2011	745	2.04	42677
1F3POOL	F3W101	2010/6/19	3/11/2011	265	0.73	46442
1F3POOL	F3W103	2010/6/19	3/11/2011	265	0.73	46410
1F3POOL	F3W104	2010/6/19	3/11/2011	265	0.73	46353
1F3POOL	F3W106	2010/6/19	3/11/2011	265	0.73	39392
1F3POOL	F3W107	2010/6/19	3/11/2011	265	0.73	39368
1F3POOL	F3AB48	2007/9/1	3/11/2011	1287	3.53	11756
1F3POOL	F3W6	2009/2/24	3/11/2011	745	2.04	43295
1F3POOL	F3W7	2009/2/24	3/11/2011	745	2.04	43284
1F3POOL	F3W8	2009/2/24	3/11/2011	745	2.04	43239
1F3POOL	F3W9	2009/2/24	3/11/2011	745	2.04	42500
1F3POOL	F3W10	2009/2/24	3/11/2011	745	2.04	42434
1F3POOL	F3W11	2009/2/24	3/11/2011	745	2.04	42491
1F3POOL	F3W12	2009/2/24	3/11/2011	745	2.04	42403
1F3POOL	F3W13	2010/6/19	3/11/2011	265	0.73	41397
1F3POOL	F3W14	2010/6/19	3/11/2011	265	0.73	41378
1F3POOL	F3W15	2010/6/19	3/11/2011	265	0.73	41383
1F3POOL	F3W16	2010/6/19	3/11/2011	265	0.73	41185

1F3POOL	F3W17	2009/2/24	3/11/2011	745	2.04	45456
1F3POOL	F3W18	2009/2/24	3/11/2011	745	2.04	45592
1F3POOL	F3W19	2009/2/24	3/11/2011	745	2.04	45591
1F3POOL	F3W20	2009/2/24	3/11/2011	745	2.04	45610
1F3POOL	F3W21	2010/6/19	3/11/2011	265	0.73	41050
1F3POOL	F3W22	2010/6/19	3/11/2011	265	0.73	41005
1F3POOL	F3W23	2010/6/19	3/11/2011	265	0.73	41086
1F3POOL	F3W24	2010/6/19	3/11/2011	265	0.73	40894
1F3POOL	F3W25	2010/6/19	3/11/2011	265	0.73	42195
1F3POOL	F3W26	2010/6/19	3/11/2011	265	0.73	42375
1F3POOL	F3W27	2010/6/19	3/11/2011	265	0.73	42377
1F3POOL	F3W29	2010/6/19	3/11/2011	265	0.73	48548
1F3POOL	F3W30	2010/6/19	3/11/2011	265	0.73	48720
1F3POOL	F3W32	2010/6/19	3/11/2011	265	0.73	48291
1F3POOL	F3W33	2009/2/24	3/11/2011	745	2.04	42079
1F3POOL	F3W35	2009/2/24	3/11/2011	745	2.04	42054
1F3POOL	F3W36	2010/6/19	3/11/2011	265	0.73	45307
1F3POOL	F3W38	2009/2/24	3/11/2011	745	2.04	42165
1F3POOL	F3W5	2009/2/24	3/11/2011	745	2.04	43237
1F3POOL	F3W1	2010/6/19	3/11/2011	265	0.73	47071
1F3POOL	F3W2	2010/6/19	3/11/2011	265	0.73	47002
1F3POOL	F3W3	2010/6/19	3/11/2011	265	0.73	47056
1F3POOL	F3W4	2010/6/19	3/11/2011	265	0.73	46845
1F3POOL	F3W147	2010/6/19	3/11/2011	265	0.73	38179
1F3POOL	F3W148	2010/6/19	3/11/2011	265	0.73	38039
1F3POOL	F3W28	2010/6/19	3/11/2011	265	0.73	41463
1F3POOL	F3W31	2010/6/19	3/11/2011	265	0.73	48745
1F3POOL	F3W34	2009/2/24	3/11/2011	745	2.04	42113
1F3POOL	F3W37	2009/2/24	3/11/2011	745	2.04	41926
1F3POOL	F3W62	2010/6/19	3/11/2011	265	0.73	45474
1F3POOL	F3W65	2009/2/24	3/11/2011	745	2.04	42939
1F3POOL	F3W68	2009/2/24	3/11/2011	745	2.04	43013
1F3POOL	F3W71	2010/6/19	3/11/2011	265	0.73	47050
1F3POOL	F3W96	2009/2/24	3/11/2011	745	2.04	41859
1F3POOL	F3W99	2009/2/24	3/11/2011	745	2.04	42765
1F3POOL	F3W102	2010/6/19	3/11/2011	265	0.73	46414
1F3POOL	F3W105	2010/6/19	3/11/2011	265	0.73	39393
1F3POOL	F3W128	2010/6/19	3/11/2011	265	0.73	45291
1F3POOL	F3W131	2010/6/19	3/11/2011	265	0.73	45317
1F3POOL	F3W134	2010/6/19	3/11/2011	265	0.73	47649
1F3POOL	F3W137	2010/6/19	3/11/2011	265	0.73	48175
1F3POOL	F3W140	2010/6/19	3/11/2011	265	0.73	48334
	F3AE100					
	F3AE125					
	F3AE126					
	F3AE127					
	F3AE128					
	F3AE129					
	F3AE130					
	F3AE131					
	F3AE132					
	F3AE133					
	F3AE134					

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F3AE99

Unit	Fuel ID	Shutdown Date	Earthquake Date	Cooling Duration (Days)	Cooling Duration (Yeas)	Burn up
				11123 1078 3039.53102	MAX= MIN= AVE=	50520 10734 36756.6822
1F4POOL	F4Z47	1980/9/26	3/11/2011	11123	30.47	16940
1F4POOL	F4B61	1986/9/2	3/11/2011	8956	24.54	36840
1F4POOL	F4B57	1986/9/2	3/11/2011	8956	24.54	35568
1F4POOL	F4B60	1986/9/2	3/11/2011	8956	24.54	36923
1F4POOL	F4B80	1986/9/2	3/11/2011	8956	24.54	37326
1F4POOL	F4K68	1995/2/26	3/11/2011	5857	16.05	33240
1F4POOL	F4K102	1995/2/26	3/11/2011	5857	16.05	33238
1F4POOL	F4K147	1996/4/21	3/11/2011	5437	14.90	31409
1F4POOL	F4K166	1996/4/21	3/11/2011	5437	14.90	31414
1F4POOL	F4LN24	1996/4/21	3/11/2011	5437	14.90	31413
1F4POOL	F4LN28	1996/4/21	3/11/2011	5437	14.90	31411
1F4POOL	F4LN47	1996/4/21	3/11/2011	5437	14.90	31404
1F4POOL	F4LN74	1996/4/21	3/11/2011	5437	14.90	31410
1F4POOL	F4N10	1999/3/19	3/11/2011	4375	11.99	34901
1F4POOL	F4N16	1999/3/19	3/11/2011	4375	11.99	34709
1F4POOL	F4N19	1999/3/19	3/11/2011	4375	11.99	34955
1F4POOL	F4N32	1999/3/19	3/11/2011	4375	11.99	34860
1F4POOL	F4N38	1999/3/19	3/11/2011	4375	11.99	34703
1F4POOL	F4N41	1999/3/19	3/11/2011	4375	11.99	34981
1F4POOL	F4N49	1999/3/19	3/11/2011	4375	11.99	34472
1F4POOL	F4N54	1999/3/19	3/11/2011	4375	11.99	34878
1F4POOL	F4N60	1999/3/19	3/11/2011	4375	11.99	34710
1F4POOL	F4N63	1999/3/19	3/11/2011	4375	11.99	34945
1F4POOL	F4N71	1999/3/19	3/11/2011	4375	11.99	34480
1F4POOL	F4N76	1999/3/19	3/11/2011	4375	11.99	34907
1F4POOL	F4N82	1999/3/19	3/11/2011	4375	11.99	34741
1F4POOL	F4N85	1999/3/19	3/11/2011	4375	11.99	35003
1F4POOL	F4LN109	1999/3/19	3/11/2011	4375	11.99	31563
1F4POOL	F4LN115	1999/3/19	3/11/2011	4375	11.99	31552
1F4POOL	F4K135	1999/3/19	3/11/2011	4375	11.99	33927
1F4POOL	F4L25	1999/3/19	3/11/2011	4375	11.99	33694
1F4POOL	F4M139	1999/3/19	3/11/2011	4375	11.99	29142
1F4POOL	F4M153	1999/3/19	3/11/2011	4375	11.99	29176
1F4POOL	F4M163	1999/3/19	3/11/2011	4375	11.99	30215
1F4POOL	F4M181	1999/3/19	3/11/2011	4375	11.99	30229
1F4POOL	F4N5	1999/3/19	3/11/2011	4375	11.99	34496
1F4POOL	F4L10	1999/3/19	3/11/2011	4375	11.99	32294
1F4POOL	F4M66	1999/3/19	3/11/2011	4375	11.99	31497
1F4POOL	F4N27	1999/3/19	3/11/2011	4375	11.99	34469
1F4POOL	F4N7	2000/5/17	3/11/2011	3950	10.82	37246
1F4POOL	F4N8	2000/5/17	3/11/2011	3950	10.82	37214
1F4POOL	F4N9	2000/5/17	3/11/2011	3950	10.82	39398
1F4POOL	F4N12	2000/5/17	3/11/2011	3950	10.82	41615
1F4POOL	F4N13	2000/5/17	3/11/2011	3950	10.82	39230
1F4POOL	F4N15	2000/5/17	3/11/2011	3950	10.82	39088
1F4POOL	F4N17	2000/5/17	3/11/2011	3950	10.82	37485
1F4POOL	F4N18	2000/5/17	3/11/2011	3950	10.82	39713
1F4POOL	F4N20	2000/5/17	3/11/2011	3950	10.82	41353

1F4POOL	F4N21	2000/5/17	3/11/2011	3950	10.82	37535
1F4POOL	F4N22	2000/5/17	3/11/2011	3950	10.82	37254
1F4POOL	F4N23	2000/5/17	3/11/2011	3950	10.82	40683
1F4POOL	F4N24	2000/5/17	3/11/2011	3950	10.82	38737
1F4POOL	F4N25	2000/5/17	3/11/2011	3950	10.82	40416
1F4POOL	F4N29	2000/5/17	3/11/2011	3950	10.82	37193
1F4POOL	F4N30	2000/5/17	3/11/2011	3950	10.82	37166
1F4POOL	F4N31	2000/5/17	3/11/2011	3950	10.82	39362
1F4POOL	F4N34	2000/5/17	3/11/2011	3950	10.82	41599
1F4POOL	F4N35	2000/5/17	3/11/2011	3950	10.82	39248
1F4POOL	F4N37	2000/5/17	3/11/2011	3950	10.82	39096
1F4POOL	F4N39	2000/5/17	3/11/2011	3950	10.82	37506
1F4POOL	F4N40	2000/5/17	3/11/2011	3950	10.82	39725
1F4POOL	F4N42	2000/5/17	3/11/2011	3950	10.82	41363
1F4POOL	F4N43	2000/5/17	3/11/2011	3950	10.82	37554
1F4POOL	F4N44	2000/5/17	3/11/2011	3950	10.82	37259
1F4POOL	F4N45	2000/5/17	3/11/2011	3950	10.82	40638
1F4POOL	F4N46	2000/5/17	3/11/2011	3950	10.82	38745
1F4POOL	F4N47	2000/5/17	3/11/2011	3950	10.82	40419
1F4POOL	F4N51	2000/5/17	3/11/2011	3950	10.82	37225
1F4POOL	F4N52	2000/5/17	3/11/2011	3950	10.82	37180
1F4POOL	F4N53	2000/5/17	3/11/2011	3950	10.82	39394
1F4POOL	F4N56	2000/5/17	3/11/2011	3950	10.82	41612
1F4POOL	F4N57	2000/5/17	3/11/2011	3950	10.82	39222
1F4POOL	F4N59	2000/5/17	3/11/2011	3950	10.82	39085
1F4POOL	F4N61	2000/5/17	3/11/2011	3950	10.82	37482
1F4POOL	F4N62	2000/5/17	3/11/2011	3950	10.82	39690
1F4POOL	F4N65	2000/5/17	3/11/2011	3950	10.82	37564
1F4POOL	F4N66	2000/5/17	3/11/2011	3950	10.82	37243
1F4POOL	F4N67	2000/5/17	3/11/2011	3950	10.82	40626
1F4POOL	F4N68	2000/5/17	3/11/2011	3950	10.82	38757
1F4POOL	F4N69	2000/5/17	3/11/2011	3950	10.82	40426
1F4POOL	F4N73	2000/5/17	3/11/2011	3950	10.82	37251
1F4POOL	F4N74	2000/5/17	3/11/2011	3950	10.82	37230
1F4POOL	F4N75	2000/5/17	3/11/2011	3950	10.82	39406
1F4POOL	F4N78	2000/5/17	3/11/2011	3950	10.82	41647
1F4POOL	F4N79	2000/5/17	3/11/2011	3950	10.82	39263
1F4POOL	F4N81	2000/5/17	3/11/2011	3950	10.82	39129
1F4POOL	F4N83	2000/5/17	3/11/2011	3950	10.82	37525
1F4POOL	F4N84	2000/5/17	3/11/2011	3950	10.82	39741
1F4POOL	F4N86	2000/5/17	3/11/2011	3950	10.82	41406
1F4POOL	F4N87	2000/5/17	3/11/2011	3950	10.82	37583
1F4POOL	F4N88	2000/5/17	3/11/2011	3950	10.82	37290
1F4POOL	F4NN1	2000/5/17	3/11/2011	3950	10.82	38231
1F4POOL	F4NN2	2000/5/17	3/11/2011	3950	10.82	38357
1F4POOL	F4N1	2000/5/17	3/11/2011	3950	10.82	40629
1F4POOL	F4N2	2000/5/17	3/11/2011	3950	10.82	38753
1F4POOL	F4N3	2000/5/17	3/11/2011	3950	10.82	40425
1F4POOL	F4NN10	2000/5/17	3/11/2011	3950	10.82	40389
1F4POOL	F4NN11	2000/5/17	3/11/2011	3950	10.82	40400
1F4POOL	F4NN12	2000/5/17	3/11/2011	3950	10.82	38220
1F4POOL	F4NN13	2000/5/17	3/11/2011	3950	10.82	38352
1F4POOL	F4NN14	2000/5/17	3/11/2011	3950	10.82	39428

1F4POOL	F4NN16	2000/5/17	3/11/2011	3950	10.82	38785
1F4POOL	F4NN17	2000/5/17	3/11/2011	3950	10.82	37873
1F4POOL	F4NN19	2000/5/17	3/11/2011	3950	10.82	38036
1F4POOL	F4NN21	2000/5/17	3/11/2011	3950	10.82	40377
1F4POOL	F4NN22	2000/5/17	3/11/2011	3950	10.82	40387
1F4POOL	F4NN23	2000/5/17	3/11/2011	3950	10.82	38235
1F4POOL	F4NN25	2000/5/17	3/11/2011	3950	10.82	39429
1F4POOL	F4NN27	2000/5/17	3/11/2011	3950	10.82	38765
1F4POOL	F4NN28	2000/5/17	3/11/2011	3950	10.82	37859
1F4POOL	F4NN29	2000/5/17	3/11/2011	3950	10.82	40689
1F4POOL	F4NN30	2000/5/17	3/11/2011	3950	10.82	38013
1F4POOL	F4NN32	2000/5/17	3/11/2011	3950	10.82	40367
1F4POOL	F4NN33	2000/5/17	3/11/2011	3950	10.82	40362
1F4POOL	F4NN34	2000/5/17	3/11/2011	3950	10.82	38213
1F4POOL	F4NN35	2000/5/17	3/11/2011	3950	10.82	38335
1F4POOL	F4NN36	2000/5/17	3/11/2011	3950	10.82	39424
1F4POOL	F4NN38	2000/5/17	3/11/2011	3950	10.82	38762
1F4POOL	F4NN39	2000/5/17	3/11/2011	3950	10.82	37854
1F4POOL	F4NN40	2000/5/17	3/11/2011	3950	10.82	40685
1F4POOL	F4NN41	2000/5/17	3/11/2011	3950	10.82	38041
1F4POOL	F4NN43	2000/5/17	3/11/2011	3950	10.82	40379
1F4POOL	F4NN44	2000/5/17	3/11/2011	3950	10.82	40363
1F4POOL	F4NN8	2000/5/17	3/11/2011	3950	10.82	38040
1F4POOL	F4NN3	2000/5/17	3/11/2011	3950	10.82	39420
1F4POOL	F4NN5	2000/5/17	3/11/2011	3950	10.82	38775
1F4POOL	F4NN6	2000/5/17	3/11/2011	3950	10.82	37879
1F4POOL	F4NN7	2000/5/17	3/11/2011	3950	10.82	40711
1F4POOL	F4M106	2000/5/17	3/11/2011	3950	10.82	31113
1F4POOL	F4M107	2000/5/17	3/11/2011	3950	10.82	32396
1F4POOL	F4M116	2000/5/17	3/11/2011	3950	10.82	32721
1F4POOL	F4M120	2000/5/17	3/11/2011	3950	10.82	31106
1F4POOL	F4M121	2000/5/17	3/11/2011	3950	10.82	32330
1F4POOL	F4M130	2000/5/17	3/11/2011	3950	10.82	32652
1F4POOL	F4M134	2000/5/17	3/11/2011	3950	10.82	31058
1F4POOL	F4M135	2000/5/17	3/11/2011	3950	10.82	32400
1F4POOL	F4M144	2000/5/17	3/11/2011	3950	10.82	32656
1F4POOL	F4M148	2000/5/17	3/11/2011	3950	10.82	31054
1F4POOL	F4M149	2000/5/17	3/11/2011	3950	10.82	32355
1F4POOL	F4M158	2000/5/17	3/11/2011	3950	10.82	32700
1F4POOL	F4N64	2000/5/17	3/11/2011	3950	10.82	41381
1F4POOL	F4NN18	2000/5/17	3/11/2011	3950	10.82	40713
1F4POOL	F4NN24	2000/5/17	3/11/2011	3950	10.82	38350
1F4POOL	F4N6	2001/10/2	3/11/2011	3447	9.44	41140
1F4POOL	F4N11	2001/10/2	3/11/2011	3447	9.44	38809
1F4POOL	F4N14	2001/10/2	3/11/2011	3447	9.44	39613
1F4POOL	F4N26	2001/10/2	3/11/2011	3447	9.44	38748
1F4POOL	F4N28	2001/10/2	3/11/2011	3447	9.44	41112
1F4POOL	F4N33	2001/10/2	3/11/2011	3447	9.44	38798
1F4POOL	F4N36	2001/10/2	3/11/2011	3447	9.44	39668
1F4POOL	F4N48	2001/10/2	3/11/2011	3447	9.44	38762
1F4POOL	F4N50	2001/10/2	3/11/2011	3447	9.44	41118
1F4POOL	F4N55	2001/10/2	3/11/2011	3447	9.44	38803
1F4POOL	F4N70	2001/10/2	3/11/2011	3447	9.44	38785

1F4POOL	F4N72	2001/10/2	3/11/2011	3447	9.44	41172
1F4POOL	F4N77	2001/10/2	3/11/2011	3447	9.44	38840
1F4POOL	F4N80	2001/10/2	3/11/2011	3447	9.44	39670
1F4POOL	F4N93	2001/10/2	3/11/2011	3447	9.44	39378
1F4POOL	F4N94	2001/10/2	3/11/2011	3447	9.44	39570
1F4POOL	F4N95	2001/10/2	3/11/2011	3447	9.44	41642
1F4POOL	F4N97	2001/10/2	3/11/2011	3447	9.44	39592
1F4POOL	F4N98	2001/10/2	3/11/2011	3447	9.44	41632
1F4POOL	F4N99	2001/10/2	3/11/2011	3447	9.44	39406
1F4POOL	F4N100	2001/10/2	3/11/2011	3447	9.44	39584
1F4POOL	F4N101	2001/10/2	3/11/2011	3447	9.44	41654
1F4POOL	F4N102	2001/10/2	3/11/2011	3447	9.44	39414
1F4POOL	F4N103	2001/10/2	3/11/2011	3447	9.44	39602
1F4POOL	F4N104	2001/10/2	3/11/2011	3447	9.44	41666
1F4POOL	F4N4	2001/10/2	3/11/2011	3447	9.44	38765
1F4POOL	F4NN15	2001/10/2	3/11/2011	3447	9.44	39418
1F4POOL	F4NN20	2001/10/2	3/11/2011	3447	9.44	40540
1F4POOL	F4NN26	2001/10/2	3/11/2011	3447	9.44	39418
1F4POOL	F4NN31	2001/10/2	3/11/2011	3447	9.44	40530
1F4POOL	F4NN37	2001/10/2	3/11/2011	3447	9.44	39403
1F4POOL	F4NN42	2001/10/2	3/11/2011	3447	9.44	40549
1F4POOL	F4P1	2001/10/2	3/11/2011	3447	9.44	42843
1F4POOL	F4P2	2001/10/2	3/11/2011	3447	9.44	43860
1F4POOL	F4P3	2001/10/2	3/11/2011	3447	9.44	42784
1F4POOL	F4P4	2001/10/2	3/11/2011	3447	9.44	42362
1F4POOL	F4P5	2001/10/2	3/11/2011	3447	9.44	42019
1F4POOL	F4P7	2001/10/2	3/11/2011	3447	9.44	39802
1F4POOL	F4P8	2001/10/2	3/11/2011	3447	9.44	41414
1F4POOL	F4P9	2001/10/2	3/11/2011	3447	9.44	38031
1F4POOL	F4P10	2001/10/2	3/11/2011	3447	9.44	37153
1F4POOL	F4P11	2001/10/2	3/11/2011	3447	9.44	43084
1F4POOL	F4P13	2001/10/2	3/11/2011	3447	9.44	42796
1F4POOL	F4P15	2001/10/2	3/11/2011	3447	9.44	43334
1F4POOL	F4P16	2001/10/2	3/11/2011	3447	9.44	39197
1F4POOL	F4P17	2001/10/2	3/11/2011	3447	9.44	43778
1F4POOL	F4P18	2001/10/2	3/11/2011	3447	9.44	37243
1F4POOL	F4P19	2001/10/2	3/11/2011	3447	9.44	43041
1F4POOL	F4P23	2001/10/2	3/11/2011	3447	9.44	39335
1F4POOL	F4P24	2001/10/2	3/11/2011	3447	9.44	41557
1F4POOL	F4P25	2001/10/2	3/11/2011	3447	9.44	42683
1F4POOL	F4P26	2001/10/2	3/11/2011	3447	9.44	43735
1F4POOL	F4P27	2001/10/2	3/11/2011	3447	9.44	42253
1F4POOL	F4P29	2001/10/2	3/11/2011	3447	9.44	40059
1F4POOL	F4P31	2001/10/2	3/11/2011	3447	9.44	42881
1F4POOL	F4P32	2001/10/2	3/11/2011	3447	9.44	43845
1F4POOL	F4P33	2001/10/2	3/11/2011	3447	9.44	42802
1F4POOL	F4P34	2001/10/2	3/11/2011	3447	9.44	42387
1F4POOL	F4P35	2001/10/2	3/11/2011	3447	9.44	41998
1F4POOL	F4P36	2001/10/2	3/11/2011	3447	9.44	38500
1F4POOL	F4P37	2001/10/2	3/11/2011	3447	9.44	39824
1F4POOL	F4P38	2001/10/2	3/11/2011	3447	9.44	41374
1F4POOL	F4P39	2001/10/2	3/11/2011	3447	9.44	38027
1F4POOL	F4P41	2001/10/2	3/11/2011	3447	9.44	43108

1F4POOL	F4P42	2001/10/2	3/11/2011	3447	9.44	37297
1F4POOL	F4P43	2001/10/2	3/11/2011	3447	9.44	42817
1F4POOL	F4P45	2001/10/2	3/11/2011	3447	9.44	43364
1F4POOL	F4P47	2001/10/2	3/11/2011	3447	9.44	43810
1F4POOL	F4P48	2001/10/2	3/11/2011	3447	9.44	37262
1F4POOL	F4P49	2001/10/2	3/11/2011	3447	9.44	43078
1F4POOL	F4P53	2001/10/2	3/11/2011	3447	9.44	39357
1F4POOL	F4P54	2001/10/2	3/11/2011	3447	9.44	41583
1F4POOL	F4P55	2001/10/2	3/11/2011	3447	9.44	42691
1F4POOL	F4P56	2001/10/2	3/11/2011	3447	9.44	43745
1F4POOL	F4P57	2001/10/2	3/11/2011	3447	9.44	42271
1F4POOL	F4P59	2001/10/2	3/11/2011	3447	9.44	40070
1F4POOL	F4P61	2001/10/2	3/11/2011	3447	9.44	42872
1F4POOL	F4P62	2001/10/2	3/11/2011	3447	9.44	43873
1F4POOL	F4P63	2001/10/2	3/11/2011	3447	9.44	42841
1F4POOL	F4P64	2001/10/2	3/11/2011	3447	9.44	42416
1F4POOL	F4P65	2001/10/2	3/11/2011	3447	9.44	42062
1F4POOL	F4P66	2001/10/2	3/11/2011	3447	9.44	38520
1F4POOL	F4P67	2001/10/2	3/11/2011	3447	9.44	39840
1F4POOL	F4P68	2001/10/2	3/11/2011	3447	9.44	41410
1F4POOL	F4NN9	2001/10/2	3/11/2011	3447	9.44	40564
1F4POOL	F4NN4	2001/10/2	3/11/2011	3447	9.44	39407
1F4POOL	F4P75	2001/10/2	3/11/2011	3447	9.44	43354
1F4POOL	F4P69	2001/10/2	3/11/2011	3447	9.44	38025
1F4POOL	F4P70	2001/10/2	3/11/2011	3447	9.44	37160
1F4POOL	F4P71	2001/10/2	3/11/2011	3447	9.44	43091
1F4POOL	F4P73	2001/10/2	3/11/2011	3447	9.44	42809
1F4POOL	F4P76	2001/10/2	3/11/2011	3447	9.44	39184
1F4POOL	F4P77	2001/10/2	3/11/2011	3447	9.44	43789
1F4POOL	F4P79	2001/10/2	3/11/2011	3447	9.44	43055
1F4POOL	F4P83	2001/10/2	3/11/2011	3447	9.44	39326
1F4POOL	F4P84	2001/10/2	3/11/2011	3447	9.44	41555
1F4POOL	F4P85	2001/10/2	3/11/2011	3447	9.44	42643
1F4POOL	F4P86	2001/10/2	3/11/2011	3447	9.44	43735
1F4POOL	F4P87	2001/10/2	3/11/2011	3447	9.44	42225
1F4POOL	F4P89	2001/10/2	3/11/2011	3447	9.44	40092
1F4POOL	F4P91	2001/10/2	3/11/2011	3447	9.44	42859
1F4POOL	F4P92	2001/10/2	3/11/2011	3447	9.44	43885
1F4POOL	F4P93	2001/10/2	3/11/2011	3447	9.44	42829
1F4POOL	F4P94	2001/10/2	3/11/2011	3447	9.44	42418
1F4POOL	F4P95	2001/10/2	3/11/2011	3447	9.44	42011
1F4POOL	F4P96	2001/10/2	3/11/2011	3447	9.44	38533
1F4POOL	F4P97	2001/10/2	3/11/2011	3447	9.44	39843
1F4POOL	F4P98	2001/10/2	3/11/2011	3447	9.44	41422
1F4POOL	F4P99	2001/10/2	3/11/2011	3447	9.44	38033
1F4POOL	F4P100	2001/10/2	3/11/2011	3447	9.44	37166
1F4POOL	F4P101	2001/10/2	3/11/2011	3447	9.44	43131
1F4POOL	F4P102	2001/10/2	3/11/2011	3447	9.44	37294
1F4POOL	F4P103	2001/10/2	3/11/2011	3447	9.44	42828
1F4POOL	F4P105	2001/10/2	3/11/2011	3447	9.44	43369
1F4POOL	F4P106	2001/10/2	3/11/2011	3447	9.44	39193
1F4POOL	F4P107	2001/10/2	3/11/2011	3447	9.44	43791
1F4POOL	F4P108	2001/10/2	3/11/2011	3447	9.44	37267

1F4POOL	F4P113	2001/10/2	3/11/2011	3447	9.44	39363
1F4POOL	F4P114	2001/10/2	3/11/2011	3447	9.44	41585
1F4POOL	F4P115	2001/10/2	3/11/2011	3447	9.44	42697
1F4POOL	F4P116	2001/10/2	3/11/2011	3447	9.44	43755
1F4POOL	F4P117	2001/10/2	3/11/2011	3447	9.44	42291
1F4POOL	F4P119	2001/10/2	3/11/2011	3447	9.44	40105
1F4POOL	F4N58	2001/10/2	3/11/2011	3447	9.44	39642
1F4POOL	F4N96	2001/10/2	3/11/2011	3447	9.44	39379
1F4POOL	F4P6	2001/10/2	3/11/2011	3447	9.44	38510
1F4POOL	F4P12	2001/10/2	3/11/2011	3447	9.44	37281
1F4POOL	F4P40	2001/10/2	3/11/2011	3447	9.44	37152
1F4POOL	F4P46	2001/10/2	3/11/2011	3447	9.44	39215
1F4POOL	F4P72	2001/10/2	3/11/2011	3447	9.44	37298
1F4POOL	F4P78	2001/10/2	3/11/2011	3447	9.44	37234
1F4POOL	F4P109	2001/10/2	3/11/2011	3447	9.44	43085
1F4POOL	F4P14	2002/9/16	3/11/2011	3098	8.49	36719
1F4POOL	F4P20	2002/9/16	3/11/2011	3098	8.49	37637
1F4POOL	F4P21	2002/9/16	3/11/2011	3098	8.49	37639
1F4POOL	F4P22	2002/9/16	3/11/2011	3098	8.49	44011
1F4POOL	F4P28	2002/9/16	3/11/2011	3098	8.49	39395
1F4POOL	F4P30	2002/9/16	3/11/2011	3098	8.49	43889
1F4POOL	F4P44	2002/9/16	3/11/2011	3098	8.49	36742
1F4POOL	F4P50	2002/9/16	3/11/2011	3098	8.49	37649
1F4POOL	F4P51	2002/9/16	3/11/2011	3098	8.49	37652
1F4POOL	F4P52	2002/9/16	3/11/2011	3098	8.49	44012
1F4POOL	F4P58	2002/9/16	3/11/2011	3098	8.49	39405
1F4POOL	F4P60	2002/9/16	3/11/2011	3098	8.49	43894
1F4POOL	F4P74	2002/9/16	3/11/2011	3098	8.49	36726
1F4POOL	F4P80	2002/9/16	3/11/2011	3098	8.49	37636
1F4POOL	F4P81	2002/9/16	3/11/2011	3098	8.49	37630
1F4POOL	F4P82	2002/9/16	3/11/2011	3098	8.49	44012
1F4POOL	F4P88	2002/9/16	3/11/2011	3098	8.49	39415
1F4POOL	F4P90	2002/9/16	3/11/2011	3098	8.49	43872
1F4POOL	F4P110	2002/9/16	3/11/2011	3098	8.49	37651
1F4POOL	F4P111	2002/9/16	3/11/2011	3098	8.49	37642
1F4POOL	F4P112	2002/9/16	3/11/2011	3098	8.49	44026
1F4POOL	F4P118	2002/9/16	3/11/2011	3098	8.49	39420
1F4POOL	F4P120	2002/9/16	3/11/2011	3098	8.49	43931
1F4POOL	F4P121	2002/9/16	3/11/2011	3098	8.49	42455
1F4POOL	F4P122	2002/9/16	3/11/2011	3098	8.49	41513
1F4POOL	F4P123	2002/9/16	3/11/2011	3098	8.49	38223
1F4POOL	F4P124	2002/9/16	3/11/2011	3098	8.49	41402
1F4POOL	F4P125	2002/9/16	3/11/2011	3098	8.49	41416
1F4POOL	F4P126	2002/9/16	3/11/2011	3098	8.49	42382
1F4POOL	F4P127	2002/9/16	3/11/2011	3098	8.49	41415
1F4POOL	F4P128	2002/9/16	3/11/2011	3098	8.49	41015
1F4POOL	F4P129	2002/9/16	3/11/2011	3098	8.49	42511
1F4POOL	F4P130	2002/9/16	3/11/2011	3098	8.49	41575
1F4POOL	F4P131	2002/9/16	3/11/2011	3098	8.49	38236
1F4POOL	F4P132	2002/9/16	3/11/2011	3098	8.49	41402
1F4POOL	F4P134	2002/9/16	3/11/2011	3098	8.49	42385
1F4POOL	F4P135	2002/9/16	3/11/2011	3098	8.49	41414
1F4POOL	F4P136	2002/9/16	3/11/2011	3098	8.49	41016

1F4POOL	F4P137	2002/9/16	3/11/2011	3098	8.49	42458
1F4POOL	F4P138	2002/9/16	3/11/2011	3098	8.49	41550
1F4POOL	F4P140	2002/9/16	3/11/2011	3098	8.49	41421
1F4POOL	F4P141	2002/9/16	3/11/2011	3098	8.49	41429
1F4POOL	F4P142	2002/9/16	3/11/2011	3098	8.49	42418
1F4POOL	F4P143	2002/9/16	3/11/2011	3098	8.49	41431
1F4POOL	F4P144	2002/9/16	3/11/2011	3098	8.49	41030
1F4POOL	F4P145	2002/9/16	3/11/2011	3098	8.49	42499
1F4POOL	F4P146	2002/9/16	3/11/2011	3098	8.49	41560
1F4POOL	F4P147	2002/9/16	3/11/2011	3098	8.49	38243
1F4POOL	F4P148	2002/9/16	3/11/2011	3098	8.49	41347
1F4POOL	F4P149	2002/9/16	3/11/2011	3098	8.49	41365
1F4POOL	F4P150	2002/9/16	3/11/2011	3098	8.49	42357
1F4POOL	F4P151	2002/9/16	3/11/2011	3098	8.49	41402
1F4POOL	F4P152	2002/9/16	3/11/2011	3098	8.49	40984
1F4POOL	F4R5	2002/9/16	3/11/2011	3098	8.49	41561
1F4POOL	F4R11	2002/9/16	3/11/2011	3098	8.49	40339
1F4POOL	F4R13	2002/9/16	3/11/2011	3098	8.49	36403
1F4POOL	F4R20	2002/9/16	3/11/2011	3098	8.49	41568
1F4POOL	F4R26	2002/9/16	3/11/2011	3098	8.49	40340
1F4POOL	F4R28	2002/9/16	3/11/2011	3098	8.49	36412
1F4POOL	F4R35	2002/9/16	3/11/2011	3098	8.49	41579
1F4POOL	F4R41	2002/9/16	3/11/2011	3098	8.49	40338
1F4POOL	F4R43	2002/9/16	3/11/2011	3098	8.49	36420
1F4POOL	F4R50	2002/9/16	3/11/2011	3098	8.49	41569
1F4POOL	F4R56	2002/9/16	3/11/2011	3098	8.49	40348
1F4POOL	F4R58	2002/9/16	3/11/2011	3098	8.49	36406
1F4POOL	F4R65	2002/9/16	3/11/2011	3098	8.49	38282
1F4POOL	F4R66	2002/9/16	3/11/2011	3098	8.49	38762
1F4POOL	F4R67	2002/9/16	3/11/2011	3098	8.49	38282
1F4POOL	F4R68	2002/9/16	3/11/2011	3098	8.49	38777
1F4POOL	F4R69	2002/9/16	3/11/2011	3098	8.49	38281
1F4POOL	F4R70	2002/9/16	3/11/2011	3098	8.49	38773
1F4POOL	F4R71	2002/9/16	3/11/2011	3098	8.49	38299
1F4POOL	F4R72	2002/9/16	3/11/2011	3098	8.49	38778
1F4POOL	F4RN2	2002/9/16	3/11/2011	3098	8.49	38634
1F4POOL	F4RN4	2002/9/16	3/11/2011	3098	8.49	38414
1F4POOL	F4RN5	2002/9/16	3/11/2011	3098	8.49	37588
1F4POOL	F4RN8	2002/9/16	3/11/2011	3098	8.49	38626
1F4POOL	F4RN10	2002/9/16	3/11/2011	3098	8.49	38400
1F4POOL	F4RN11	2002/9/16	3/11/2011	3098	8.49	37576
1F4POOL	F4RN14	2002/9/16	3/11/2011	3098	8.49	38627
1F4POOL	F4RN16	2002/9/16	3/11/2011	3098	8.49	38378
1F4POOL	F4RN17	2002/9/16	3/11/2011	3098	8.49	37566
1F4POOL	F4RN20	2002/9/16	3/11/2011	3098	8.49	38625
1F4POOL	F4RN22	2002/9/16	3/11/2011	3098	8.49	38401
1F4POOL	F4RN23	2002/9/16	3/11/2011	3098	8.49	37577
1F4POOL	F4P104	2002/9/16	3/11/2011	3098	8.49	36729
1F4POOL	F4P133	2002/9/16	3/11/2011	3098	8.49	41429
1F4POOL	F4P139	2002/9/16	3/11/2011	3098	8.49	38254
1F4POOL	F4N89	2005/6/25	3/11/2011	2085	5.71	39845
1F4POOL	F4N91	2005/6/25	3/11/2011	2085	5.71	39843
1F4POOL	F4N92	2005/6/25	3/11/2011	2085	5.71	39806

1F4POOL	F4RN68	2005/6/25	3/11/2011	2085	5.71	38642
1F4POOL	F4R30	2005/6/25	3/11/2011	2085	5.71	38869
1F4POOL	F4R1	2005/6/25	3/11/2011	2085	5.71	41732
1F4POOL	F4R2	2005/6/25	3/11/2011	2085	5.71	44206
1F4POOL	F4R4	2005/6/25	3/11/2011	2085	5.71	44891
1F4POOL	F4R6	2005/6/25	3/11/2011	2085	5.71	45296
1F4POOL	F4R7	2005/6/25	3/11/2011	2085	5.71	43601
1F4POOL	F4R9	2005/6/25	3/11/2011	2085	5.71	45334
1F4POOL	F4R10	2005/6/25	3/11/2011	2085	5.71	44986
1F4POOL	F4R12	2005/6/25	3/11/2011	2085	5.71	38887
1F4POOL	F4R14	2005/6/25	3/11/2011	2085	5.71	38736
1F4POOL	F4R15	2005/6/25	3/11/2011	2085	5.71	38861
1F4POOL	F4R17	2005/6/25	3/11/2011	2085	5.71	44204
1F4POOL	F4R19	2005/6/25	3/11/2011	2085	5.71	44886
1F4POOL	F4R21	2005/6/25	3/11/2011	2085	5.71	45307
1F4POOL	F4R23	2005/6/25	3/11/2011	2085	5.71	38398
1F4POOL	F4R24	2005/6/25	3/11/2011	2085	5.71	45328
1F4POOL	F4R25	2005/6/25	3/11/2011	2085	5.71	44987
1F4POOL	F4R27	2005/6/25	3/11/2011	2085	5.71	38890
1F4POOL	F4R29	2005/6/25	3/11/2011	2085	5.71	38736
1F4POOL	F4R31	2005/6/25	3/11/2011	2085	5.71	41739
1F4POOL	F4R32	2005/6/25	3/11/2011	2085	5.71	44224
1F4POOL	F4R34	2005/6/25	3/11/2011	2085	5.71	44914
1F4POOL	F4R36	2005/6/25	3/11/2011	2085	5.71	45335
1F4POOL	F4R37	2005/6/25	3/11/2011	2085	5.71	43621
1F4POOL	F4R38	2005/6/25	3/11/2011	2085	5.71	38425
1F4POOL	F4R39	2005/6/25	3/11/2011	2085	5.71	45348
1F4POOL	F4R40	2005/6/25	3/11/2011	2085	5.71	45013
1F4POOL	F4R42	2005/6/25	3/11/2011	2085	5.71	38893
1F4POOL	F4R44	2005/6/25	3/11/2011	2085	5.71	38740
1F4POOL	F4R45	2005/6/25	3/11/2011	2085	5.71	38876
1F4POOL	F4R46	2005/6/25	3/11/2011	2085	5.71	41729
1F4POOL	F4R47	2005/6/25	3/11/2011	2085	5.71	44219
1F4POOL	F4R49	2005/6/25	3/11/2011	2085	5.71	44906
1F4POOL	F4R51	2005/6/25	3/11/2011	2085	5.71	45312
1F4POOL	F4R52	2005/6/25	3/11/2011	2085	5.71	43612
1F4POOL	F4R55	2005/6/25	3/11/2011	2085	5.71	44992
1F4POOL	F4R57	2005/6/25	3/11/2011	2085	5.71	38888
1F4POOL	F4R59	2005/6/25	3/11/2011	2085	5.71	38731
1F4POOL	F4R60	2005/6/25	3/11/2011	2085	5.71	38862
1F4POOL	F4RN1	2005/6/25	3/11/2011	2085	5.71	37778
1F4POOL	F4RN3	2005/6/25	3/11/2011	2085	5.71	37904
1F4POOL	F4RN9	2005/6/25	3/11/2011	2085	5.71	37894
1F4POOL	F4RN15	2005/6/25	3/11/2011	2085	5.71	37879
1F4POOL	F4RN18	2005/6/25	3/11/2011	2085	5.71	45130
1F4POOL	F4RN19	2005/6/25	3/11/2011	2085	5.71	37770
1F4POOL	F4RN21	2005/6/25	3/11/2011	2085	5.71	37888
1F4POOL	F4RN24	2005/6/25	3/11/2011	2085	5.71	45136
1F4POOL	F4RN27	2005/6/25	3/11/2011	2085	5.71	37795
1F4POOL	F4RN35	2005/6/25	3/11/2011	2085	5.71	38651
1F4POOL	F4RN36	2005/6/25	3/11/2011	2085	5.71	37900
1F4POOL	F4RN38	2005/6/25	3/11/2011	2085	5.71	37765
1F4POOL	F4RN46	2005/6/25	3/11/2011	2085	5.71	38643

1F4POOL	F4RN47	2005/6/25	3/11/2011	2085	5.71	37915
1F4POOL	F4RN49	2005/6/25	3/11/2011	2085	5.71	37793
1F4POOL	F4RN57	2005/6/25	3/11/2011	2085	5.71	38653
1F4POOL	F4RN60	2005/6/25	3/11/2011	2085	5.71	37768
1F4POOL	F4S4	2005/6/25	3/11/2011	2085	5.71	42023
1F4POOL	F4S9	2005/6/25	3/11/2011	2085	5.71	38309
1F4POOL	F4S13	2005/6/25	3/11/2011	2085	5.71	37994
1F4POOL	F4S38	2005/6/25	3/11/2011	2085	5.71	37999
1F4POOL	F4S29	2005/6/25	3/11/2011	2085	5.71	42003
1F4POOL	F4S34	2005/6/25	3/11/2011	2085	5.71	38296
1F4POOL	F4S54	2005/6/25	3/11/2011	2085	5.71	42032
1F4POOL	F4S59	2005/6/25	3/11/2011	2085	5.71	38319
1F4POOL	F4S63	2005/6/25	3/11/2011	2085	5.71	38022
1F4POOL	F4S79	2005/6/25	3/11/2011	2085	5.71	42019
1F4POOL	F4S84	2005/6/25	3/11/2011	2085	5.71	38291
1F4POOL	F4S88	2005/6/25	3/11/2011	2085	5.71	37993
1F4POOL	F4N90	2005/6/25	3/11/2011	2085	5.71	39838
1F4POOL	F4R16	2005/6/25	3/11/2011	2085	5.71	41721
1F4POOL	F4R22	2005/6/25	3/11/2011	2085	5.71	43598
1F4POOL	F4R54	2005/6/25	3/11/2011	2085	5.71	45324
1F4POOL	F4RN6	2005/6/25	3/11/2011	2085	5.71	45133
1F4POOL	F4RN12	2005/6/25	3/11/2011	2085	5.71	45124
1F4POOL	F4R61	2006/10/2	3/11/2011	1621	4.44	39784
1F4POOL	F4RN32	2006/10/2	3/11/2011	1621	4.44	40996
1F4POOL	F4UN22	2006/10/2	3/11/2011	1621	4.44	22883
1F4POOL	F4S15	2006/10/2	3/11/2011	1621	4.44	40196
1F4POOL	F4S17	2006/10/2	3/11/2011	1621	4.44	37175
1F4POOL	F4RN65	2007/2/11	3/11/2011	1489	4.08	44518
1F4POOL	F4RN66	2007/2/11	3/11/2011	1489	4.08	43949
1F4POOL	F4RN67	2007/2/11	3/11/2011	1489	4.08	44704
1F4POOL	F4R3	2007/2/11	3/11/2011	1489	4.08	40026
1F4POOL	F4R8	2007/2/11	3/11/2011	1489	4.08	40067
1F4POOL	F4R18	2007/2/11	3/11/2011	1489	4.08	40488
1F4POOL	F4R33	2007/2/11	3/11/2011	1489	4.08	40512
1F4POOL	F4R53	2007/2/11	3/11/2011	1489	4.08	40153
1F4POOL	F4R62	2007/2/11	3/11/2011	1489	4.08	44193
1F4POOL	F4R63	2007/2/11	3/11/2011	1489	4.08	44127
1F4POOL	F4R64	2007/2/11	3/11/2011	1489	4.08	44149
1F4POOL	F4RN7	2007/2/11	3/11/2011	1489	4.08	39527
1F4POOL	F4RN13	2007/2/11	3/11/2011	1489	4.08	39424
1F4POOL	F4RN25	2007/2/11	3/11/2011	1489	4.08	40307
1F4POOL	F4RN26	2007/2/11	3/11/2011	1489	4.08	39749
1F4POOL	F4RN29	2007/2/11	3/11/2011	1489	4.08	40497
1F4POOL	F4RN33	2007/2/11	3/11/2011	1489	4.08	43945
1F4POOL	F4RN34	2007/2/11	3/11/2011	1489	4.08	44584
1F4POOL	F4RN37	2007/2/11	3/11/2011	1489	4.08	39824
1F4POOL	F4RN40	2007/2/11	3/11/2011	1489	4.08	40843
1F4POOL	F4RN43	2007/2/11	3/11/2011	1489	4.08	44580
1F4POOL	F4RN44	2007/2/11	3/11/2011	1489	4.08	43999
1F4POOL	F4RN45	2007/2/11	3/11/2011	1489	4.08	44678
1F4POOL	F4RN51	2007/2/11	3/11/2011	1489	4.08	40737
1F4POOL	F4RN54	2007/2/11	3/11/2011	1489	4.08	44517
1F4POOL	F4RN55	2007/2/11	3/11/2011	1489	4.08	43394

1F4POOL	F4RN56	2007/2/11	3/11/2011	1489	4.08	44538
1F4POOL	F4RN58	2007/2/11	3/11/2011	1489	4.08	40299
1F4POOL	F4RN59	2007/2/11	3/11/2011	1489	4.08	39778
1F4POOL	F4RN62	2007/2/11	3/11/2011	1489	4.08	40763
1F4POOL	F4S1	2007/2/11	3/11/2011	1489	4.08	42253
1F4POOL	F4S2	2007/2/11	3/11/2011	1489	4.08	41124
1F4POOL	F4S3	2007/2/11	3/11/2011	1489	4.08	43043
1F4POOL	F4S5	2007/2/11	3/11/2011	1489	4.08	42312
1F4POOL	F4S6	2007/2/11	3/11/2011	1489	4.08	44813
1F4POOL	F4S7	2007/2/11	3/11/2011	1489	4.08	42571
1F4POOL	F4S8	2007/2/11	3/11/2011	1489	4.08	41543
1F4POOL	F4S10	2007/2/11	3/11/2011	1489	4.08	44581
1F4POOL	F4S11	2007/2/11	3/11/2011	1489	4.08	40028
1F4POOL	F4S14	2007/2/11	3/11/2011	1489	4.08	40509
1F4POOL	F4S19	2007/2/11	3/11/2011	1489	4.08	40538
1F4POOL	F4S22	2007/2/11	3/11/2011	1489	4.08	43484
1F4POOL	F4S24	2007/2/11	3/11/2011	1489	4.08	39795
1F4POOL	F4S25	2007/2/11	3/11/2011	1489	4.08	39651
1F4POOL	F4S26	2007/2/11	3/11/2011	1489	4.08	42389
1F4POOL	F4S27	2007/2/11	3/11/2011	1489	4.08	42281
1F4POOL	F4S18	2007/2/11	3/11/2011	1489	4.08	44277
1F4POOL	F4S44	2007/2/11	3/11/2011	1489	4.08	40841
1F4POOL	F4S74	2007/2/11	3/11/2011	1489	4.08	40174
1F4POOL	F4S80	2007/2/11	3/11/2011	1489	4.08	42423
1F4POOL	F4S28	2007/2/11	3/11/2011	1489	4.08	43054
1F4POOL	F4S30	2007/2/11	3/11/2011	1489	4.08	42476
1F4POOL	F4S31	2007/2/11	3/11/2011	1489	4.08	44969
1F4POOL	F4S32	2007/2/11	3/11/2011	1489	4.08	42824
1F4POOL	F4S33	2007/2/11	3/11/2011	1489	4.08	42770
1F4POOL	F4S35	2007/2/11	3/11/2011	1489	4.08	44669
1F4POOL	F4S36	2007/2/11	3/11/2011	1489	4.08	40055
1F4POOL	F4S39	2007/2/11	3/11/2011	1489	4.08	41292
1F4POOL	F4S40	2007/2/11	3/11/2011	1489	4.08	44659
1F4POOL	F4S42	2007/2/11	3/11/2011	1489	4.08	41453
1F4POOL	F4S43	2007/2/11	3/11/2011	1489	4.08	44309
1F4POOL	F4S45	2007/2/11	3/11/2011	1489	4.08	40010
1F4POOL	F4S47	2007/2/11	3/11/2011	1489	4.08	43588
1F4POOL	F4S49	2007/2/11	3/11/2011	1489	4.08	40190
1F4POOL	F4S51	2007/2/11	3/11/2011	1489	4.08	42164
1F4POOL	F4S52	2007/2/11	3/11/2011	1489	4.08	42320
1F4POOL	F4S53	2007/2/11	3/11/2011	1489	4.08	42535
1F4POOL	F4S56	2007/2/11	3/11/2011	1489	4.08	44998
1F4POOL	F4S57	2007/2/11	3/11/2011	1489	4.08	42729
1F4POOL	F4S58	2007/2/11	3/11/2011	1489	4.08	42777
1F4POOL	F4S61	2007/2/11	3/11/2011	1489	4.08	39933
1F4POOL	F4S65	2007/2/11	3/11/2011	1489	4.08	44645
1F4POOL	F4S67	2007/2/11	3/11/2011	1489	4.08	41453
1F4POOL	F4S68	2007/2/11	3/11/2011	1489	4.08	43659
1F4POOL	F4S69	2007/2/11	3/11/2011	1489	4.08	40837
1F4POOL	F4S70	2007/2/11	3/11/2011	1489	4.08	39999
1F4POOL	F4S72	2007/2/11	3/11/2011	1489	4.08	43469
1F4POOL	F4S75	2007/2/11	3/11/2011	1489	4.08	40103
1F4POOL	F4S76	2007/2/11	3/11/2011	1489	4.08	42304

1F4POOL	F4S77	2007/2/11	3/11/2011	1489	4.08	42316
1F4POOL	F4S78	2007/2/11	3/11/2011	1489	4.08	43017
1F4POOL	F4S81	2007/2/11	3/11/2011	1489	4.08	45017
1F4POOL	F4S82	2007/2/11	3/11/2011	1489	4.08	42766
1F4POOL	F4S83	2007/2/11	3/11/2011	1489	4.08	42784
1F4POOL	F4S85	2007/2/11	3/11/2011	1489	4.08	44603
1F4POOL	F4S86	2007/2/11	3/11/2011	1489	4.08	40043
1F4POOL	F4S90	2007/2/11	3/11/2011	1489	4.08	44628
1F4POOL	F4S92	2007/2/11	3/11/2011	1489	4.08	41449
1F4POOL	F4S94	2007/2/11	3/11/2011	1489	4.08	40840
1F4POOL	F4S95	2007/2/11	3/11/2011	1489	4.08	39996
1F4POOL	F4S97	2007/2/11	3/11/2011	1489	4.08	43575
1F4POOL	F4S99	2007/2/11	3/11/2011	1489	4.08	40191
1F4POOL	F4S100	2007/2/11	3/11/2011	1489	4.08	40132
1F4POOL	F4R48	2007/2/11	3/11/2011	1489	4.08	40501
1F4POOL	F4RN48	2007/2/11	3/11/2011	1489	4.08	39862
1F4POOL	F4S50	2007/2/11	3/11/2011	1489	4.08	40131
1F4POOL	F4S55	2007/2/11	3/11/2011	1489	4.08	42336
1F4POOL	F4S60	2007/2/11	3/11/2011	1489	4.08	44285
1F4POOL	F4S64	2007/2/11	3/11/2011	1489	4.08	41287
1F4POOL	F4S89	2007/2/11	3/11/2011	1489	4.08	41289
1F4POOL	F4S93	2007/2/11	3/11/2011	1489	4.08	44231
1F4POOL	F4RN64	2008/3/28	3/11/2011	1078	2.95	41816
1F4POOL	F4RN28	2008/3/28	3/11/2011	1078	2.95	41500
1F4POOL	F4RN30	2008/3/28	3/11/2011	1078	2.95	42411
1F4POOL	F4RN31	2008/3/28	3/11/2011	1078	2.95	41340
1F4POOL	F4RN39	2008/3/28	3/11/2011	1078	2.95	41634
1F4POOL	F4RN41	2008/3/28	3/11/2011	1078	2.95	41858
1F4POOL	F4RN50	2008/3/28	3/11/2011	1078	2.95	41531
1F4POOL	F4RN52	2008/3/28	3/11/2011	1078	2.95	42292
1F4POOL	F4RN53	2008/3/28	3/11/2011	1078	2.95	41864
1F4POOL	F4RN61	2008/3/28	3/11/2011	1078	2.95	41745
1F4POOL	F4RN63	2008/3/28	3/11/2011	1078	2.95	42484
1F4POOL	F4UN96	2008/3/28	3/11/2011	1078	2.95	39286
1F4POOL	F4UN104	2008/3/28	3/11/2011	1078	2.95	39219
1F4POOL	F4UN65	2008/3/28	3/11/2011	1078	2.95	39589
1F4POOL	F4UN139	2008/3/28	3/11/2011	1078	2.95	39297
1F4POOL	F4UN144	2008/3/28	3/11/2011	1078	2.95	39301
1F4POOL	F4S105	2008/3/28	3/11/2011	1078	2.95	38807
1F4POOL	F4S106	2008/3/28	3/11/2011	1078	2.95	37917
1F4POOL	F4S107	2008/3/28	3/11/2011	1078	2.95	38535
1F4POOL	F4S109	2008/3/28	3/11/2011	1078	2.95	38894
1F4POOL	F4S110	2008/3/28	3/11/2011	1078	2.95	39752
1F4POOL	F4S16	2008/3/28	3/11/2011	1078	2.95	42733
1F4POOL	F4S20	2008/3/28	3/11/2011	1078	2.95	42320
1F4POOL	F4S21	2008/3/28	3/11/2011	1078	2.95	41066
1F4POOL	F4TN45	2008/3/28	3/11/2011	1078	2.95	46153
1F4POOL	F4TN46	2008/3/28	3/11/2011	1078	2.95	45434
1F4POOL	F4S12	2008/3/28	3/11/2011	1078	2.95	41506
1F4POOL	F4S108	2008/3/28	3/11/2011	1078	2.95	39375
1F4POOL	F4S114	2008/3/28	3/11/2011	1078	2.95	37508
1F4POOL	F4TN1	2008/3/28	3/11/2011	1078	2.95	39593
1F4POOL	F4TN2	2008/3/28	3/11/2011	1078	2.95	41941

1F4POOL	F4TN5	2008/3/28	3/11/2011	1078	2.95	42241
1F4POOL	F4TN7	2008/3/28	3/11/2011	1078	2.95	44152
1F4POOL	F4TN8	2008/3/28	3/11/2011	1078	2.95	44541
1F4POOL	F4S37	2008/3/28	3/11/2011	1078	2.95	41376
1F4POOL	F4S41	2008/3/28	3/11/2011	1078	2.95	42296
1F4POOL	F4S46	2008/3/28	3/11/2011	1078	2.95	42102
1F4POOL	F4S48	2008/3/28	3/11/2011	1078	2.95	43528
1F4POOL	F4S62	2008/3/28	3/11/2011	1078	2.95	41854
1F4POOL	F4S66	2008/3/28	3/11/2011	1078	2.95	42966
1F4POOL	F4S71	2008/3/28	3/11/2011	1078	2.95	42074
1F4POOL	F4S73	2008/3/28	3/11/2011	1078	2.95	43814
1F4POOL	F4S87	2008/3/28	3/11/2011	1078	2.95	41745
1F4POOL	F4S91	2008/3/28	3/11/2011	1078	2.95	42889
1F4POOL	F4S96	2008/3/28	3/11/2011	1078	2.95	42154
1F4POOL	F4S101	2008/3/28	3/11/2011	1078	2.95	39222
1F4POOL	F4S102	2008/3/28	3/11/2011	1078	2.95	38145
1F4POOL	F4S104	2008/3/28	3/11/2011	1078	2.95	39715
1F4POOL	F4RN42	2008/3/28	3/11/2011	1078	2.95	41801
1F4POOL	F4TN9	2008/3/28	3/11/2011	1078	2.95	42274
1F4POOL	F4TN10	2008/3/28	3/11/2011	1078	2.95	41004
1F4POOL	F4TN11	2008/3/28	3/11/2011	1078	2.95	43011
1F4POOL	F4TN12	2008/3/28	3/11/2011	1078	2.95	41694
1F4POOL	F4TN13	2008/3/28	3/11/2011	1078	2.95	42574
1F4POOL	F4TN15	2008/3/28	3/11/2011	1078	2.95	43505
1F4POOL	F4TN16	2008/3/28	3/11/2011	1078	2.95	41634
1F4POOL	F4TN17	2008/3/28	3/11/2011	1078	2.95	43429
1F4POOL	F4TN18	2008/3/28	3/11/2011	1078	2.95	39819
1F4POOL	F4TN19	2008/3/28	3/11/2011	1078	2.95	42595
1F4POOL	F4TN20	2008/3/28	3/11/2011	1078	2.95	39718
1F4POOL	F4TN21	2008/3/28	3/11/2011	1078	2.95	46178
1F4POOL	F4TN24	2008/3/28	3/11/2011	1078	2.95	43448
1F4POOL	F4TN26	2008/3/28	3/11/2011	1078	2.95	46213
1F4POOL	F4TN27	2008/3/28	3/11/2011	1078	2.95	42729
1F4POOL	F4TN28	2008/3/28	3/11/2011	1078	2.95	42400
1F4POOL	F4TN29	2008/3/28	3/11/2011	1078	2.95	41088
1F4POOL	F4TN30	2008/3/28	3/11/2011	1078	2.95	42953
1F4POOL	F4TN31	2008/3/28	3/11/2011	1078	2.95	46778
1F4POOL	F4TN33	2008/3/28	3/11/2011	1078	2.95	39279
1F4POOL	F4TN34	2008/3/28	3/11/2011	1078	2.95	46557
1F4POOL	F4TN36	2008/3/28	3/11/2011	1078	2.95	41871
1F4POOL	F4TN38	2008/3/28	3/11/2011	1078	2.95	43507
1F4POOL	F4TN39	2008/3/28	3/11/2011	1078	2.95	39696
1F4POOL	F4TN48	2008/3/28	3/11/2011	1078	2.95	40069
1F4POOL	F4S113	2008/3/28	3/11/2011	1078	2.95	39122
1F4POOL	F4TN47	2008/3/28	3/11/2011	1078	2.95	43058
1F4POOL	F4TN49	2008/3/28	3/11/2011	1078	2.95	44183
1F4POOL	F4TN50	2008/3/28	3/11/2011	1078	2.95	46974
1F4POOL	F4TN51	2008/3/28	3/11/2011	1078	2.95	44158
1F4POOL	F4TN53	2008/3/28	3/11/2011	1078	2.95	46081
1F4POOL	F4TN54	2008/3/28	3/11/2011	1078	2.95	41569
1F4POOL	F4TN57	2008/3/28	3/11/2011	1078	2.95	44418
1F4POOL	F4TN58	2008/3/28	3/11/2011	1078	2.95	41412
1F4POOL	F4TN61	2008/3/28	3/11/2011	1078	2.95	43882

1F4POOL	F4TN62	2008/3/28	3/11/2011	1078	2.95	39806
1F4POOL	F4TN63	2008/3/28	3/11/2011	1078	2.95	46605
1F4POOL	F4TN66	2008/3/28	3/11/2011	1078	2.95	43957
1F4POOL	F4TN68	2008/3/28	3/11/2011	1078	2.95	46418
1F4POOL	F4TN69	2008/3/28	3/11/2011	1078	2.95	45005
1F4POOL	F4TN71	2008/3/28	3/11/2011	1078	2.95	41216
1F4POOL	F4TN72	2008/3/28	3/11/2011	1078	2.95	44235
1F4POOL	F4TN74	2008/3/28	3/11/2011	1078	2.95	44032
1F4POOL	F4TN75	2008/3/28	3/11/2011	1078	2.95	39344
1F4POOL	F4TN77	2008/3/28	3/11/2011	1078	2.95	41924
1F4POOL	F4TN79	2008/3/28	3/11/2011	1078	2.95	41411
1F4POOL	F4TN80	2008/3/28	3/11/2011	1078	2.95	44144
1F4POOL	F4TN81	2008/3/28	3/11/2011	1078	2.95	43068
1F4POOL	F4TN83	2008/3/28	3/11/2011	1078	2.95	42198
1F4POOL	F4TN84	2008/3/28	3/11/2011	1078	2.95	41913
1F4POOL	F4TN85	2008/3/28	3/11/2011	1078	2.95	43963
1F4POOL	F4TN86	2008/3/28	3/11/2011	1078	2.95	42414
1F4POOL	F4TN88	2008/3/28	3/11/2011	1078	2.95	44181
1F4POOL	F4TN89	2008/3/28	3/11/2011	1078	2.95	41433
1F4POOL	F4TN90	2008/3/28	3/11/2011	1078	2.95	42814
1F4POOL	F4TN91	2008/3/28	3/11/2011	1078	2.95	44252
1F4POOL	F4TN92	2008/3/28	3/11/2011	1078	2.95	39240
1F4POOL	F4TN93	2008/3/28	3/11/2011	1078	2.95	44154
1F4POOL	F4TN94	2008/3/28	3/11/2011	1078	2.95	42842
1F4POOL	F4TN95	2008/3/28	3/11/2011	1078	2.95	44382
1F4POOL	F4TN96	2008/3/28	3/11/2011	1078	2.95	44184
1F4POOL	F4TN97	2008/3/28	3/11/2011	1078	2.95	39205
1F4POOL	F4TN98	2008/3/28	3/11/2011	1078	2.95	44597
1F4POOL	F4TN99	2008/3/28	3/11/2011	1078	2.95	42695
1F4POOL	F4TN100	2008/3/28	3/11/2011	1078	2.95	44400
1F4POOL	F4TN32	2008/3/28	3/11/2011	1078	2.95	43456
1F4POOL	F4TN35	2008/3/28	3/11/2011	1078	2.95	41851
1F4POOL	F4TN37	2008/3/28	3/11/2011	1078	2.95	40906
1F4POOL	F4TN40	2008/3/28	3/11/2011	1078	2.95	46356
1F4POOL	F4TN43	2008/3/28	3/11/2011	1078	2.95	43786
1F4POOL	F4TN70	2008/3/28	3/11/2011	1078	2.95	43304
1F4POOL	F4TN73	2008/3/28	3/11/2011	1078	2.95	47153
1F4POOL	F4TN76	2008/3/28	3/11/2011	1078	2.95	46788
1F4POOL	F4TN78	2008/3/28	3/11/2011	1078	2.95	44325
1F4POOL	F4S115	2008/3/28	3/11/2011	1078	2.95	38298
1F4POOL	F4S116	2008/3/28	3/11/2011	1078	2.95	37672
1F4POOL	F4S117	2008/3/28	3/11/2011	1078	2.95	39394
1F4POOL	F4S118	2008/3/28	3/11/2011	1078	2.95	37440
1F4POOL	F4S119	2008/3/28	3/11/2011	1078	2.95	39302
1F4POOL	F4S120	2008/3/28	3/11/2011	1078	2.95	37851
1F4POOL	F4S23	2008/3/28	3/11/2011	1078	2.95	42987
1F4POOL	F4S98	2008/3/28	3/11/2011	1078	2.95	43868
1F4POOL	F4S103	2008/3/28	3/11/2011	1078	2.95	36606
1F4POOL	F4UN93	2008/3/28	3/11/2011	1078	2.95	39685
1F4POOL	F4S111	2008/3/28	3/11/2011	1078	2.95	39381
1F4POOL	F4S112	2008/3/28	3/11/2011	1078	2.95	37962
1F4POOL	F4UN4	2008/3/28	3/11/2011	1078	2.95	33212
1F4POOL	F4UN94	2009/9/29	3/11/2011	528	1.45	48278

1F4POOL	F4UN95	2009/9/29	3/11/2011	528	1.45	45359
1F4POOL	F4UN97	2009/9/29	3/11/2011	528	1.45	46522
1F4POOL	F4UN99	2009/9/29	3/11/2011	528	1.45	43662
1F4POOL	F4UN100	2009/9/29	3/11/2011	528	1.45	48490
1F4POOL	F4UN102	2009/9/29	3/11/2011	528	1.45	43157
1F4POOL	F4UN106	2009/9/29	3/11/2011	528	1.45	46866
1F4POOL	F4UN111	2009/9/29	3/11/2011	528	1.45	45618
1F4POOL	F4UN81	2009/9/29	3/11/2011	528	1.45	46018
1F4POOL	F4UN50	2009/9/29	3/11/2011	528	1.45	46490
1F4POOL	F4UN51	2009/9/29	3/11/2011	528	1.45	48063
1F4POOL	F4UN53	2009/9/29	3/11/2011	528	1.45	47573
1F4POOL	F4UN55	2009/9/29	3/11/2011	528	1.45	45882
1F4POOL	F4UN57	2009/9/29	3/11/2011	528	1.45	46961
1F4POOL	F4UN58	2009/9/29	3/11/2011	528	1.45	42519
1F4POOL	F4UN59	2009/9/29	3/11/2011	528	1.45	46936
1F4POOL	F4UN60	2009/9/29	3/11/2011	528	1.45	48700
1F4POOL	F4UN61	2009/9/29	3/11/2011	528	1.45	42984
1F4POOL	F4UN63	2009/9/29	3/11/2011	528	1.45	42970
1F4POOL	F4UN64	2009/9/29	3/11/2011	528	1.45	47724
1F4POOL	F4UN66	2009/9/29	3/11/2011	528	1.45	47783
1F4POOL	F4UN68	2009/9/29	3/11/2011	528	1.45	42820
1F4POOL	F4UN69	2009/9/29	3/11/2011	528	1.45	46242
1F4POOL	F4UN71	2009/9/29	3/11/2011	528	1.45	43552
1F4POOL	F4UN72	2009/9/29	3/11/2011	528	1.45	48512
1F4POOL	F4UN74	2009/9/29	3/11/2011	528	1.45	42858
1F4POOL	F4UN77	2009/9/29	3/11/2011	528	1.45	44760
1F4POOL	F4UN79	2009/9/29	3/11/2011	528	1.45	48245
1F4POOL	F4UN125	2009/9/29	3/11/2011	528	1.45	45660
1F4POOL	F4UN126	2009/9/29	3/11/2011	528	1.45	47386
1F4POOL	F4UN127	2009/9/29	3/11/2011	528	1.45	42981
1F4POOL	F4UN128	2009/9/29	3/11/2011	528	1.45	46374
1F4POOL	F4UN130	2009/9/29	3/11/2011	528	1.45	45646
1F4POOL	F4UN131	2009/9/29	3/11/2011	528	1.45	46469
1F4POOL	F4UN132	2009/9/29	3/11/2011	528	1.45	42332
1F4POOL	F4UN133	2009/9/29	3/11/2011	528	1.45	42618
1F4POOL	F4UN135	2009/9/29	3/11/2011	528	1.45	44688
1F4POOL	F4UN136	2009/9/29	3/11/2011	528	1.45	47794
1F4POOL	F4UN137	2009/9/29	3/11/2011	528	1.45	42525
1F4POOL	F4UN138	2009/9/29	3/11/2011	528	1.45	42477
1F4POOL	F4UN140	2009/9/29	3/11/2011	528	1.45	45874
1F4POOL	F4UN141	2009/9/29	3/11/2011	528	1.45	47809
1F4POOL	F4UN142	2009/9/29	3/11/2011	528	1.45	43224
1F4POOL	F4UN143	2009/9/29	3/11/2011	528	1.45	42861
1F4POOL	F4UN31	2009/9/29	3/11/2011	528	1.45	47116
1F4POOL	F4UN37	2009/9/29	3/11/2011	528	1.45	42899
1F4POOL	F4UN40	2009/9/29	3/11/2011	528	1.45	43343
1F4POOL	F4UN43	2009/9/29	3/11/2011	528	1.45	42843
1F4POOL	F4UN67	2009/9/29	3/11/2011	528	1.45	45596
1F4POOL	F4UN10	2009/9/29	3/11/2011	528	1.45	47856
1F4POOL	F4UN11	2009/9/29	3/11/2011	528	1.45	45365
1F4POOL	F4UN13	2009/9/29	3/11/2011	528	1.45	46219
1F4POOL	F4UN16	2009/9/29	3/11/2011	528	1.45	47413
1F4POOL	F4UN18	2009/9/29	3/11/2011	528	1.45	43065

1F4POOL	F4UN21	2009/9/29	3/11/2011	528	1.45	43326
1F4POOL	F4UN23	2009/9/29	3/11/2011	528	1.45	48175
1F4POOL	F4UN27	2009/9/29	3/11/2011	528	1.45	43831
1F4POOL	F4TN41	2009/9/29	3/11/2011	528	1.45	44394
1F4POOL	F4TN42	2009/9/29	3/11/2011	528	1.45	43796
1F4POOL	F4TN44	2009/9/29	3/11/2011	528	1.45	42038
1F4POOL	F4TN3	2009/9/29	3/11/2011	528	1.45	44262
1F4POOL	F4TN4	2009/9/29	3/11/2011	528	1.45	43959
1F4POOL	F4TN6	2009/9/29	3/11/2011	528	1.45	41968
1F4POOL	F4TN14	2009/9/29	3/11/2011	528	1.45	41638
1F4POOL	F4TN22	2009/9/29	3/11/2011	528	1.45	44473
1F4POOL	F4TN23	2009/9/29	3/11/2011	528	1.45	43892
1F4POOL	F4TN25	2009/9/29	3/11/2011	528	1.45	42228
1F4POOL	F4TN52	2009/9/29	3/11/2011	528	1.45	44694
1F4POOL	F4TN64	2009/9/29	3/11/2011	528	1.45	44441
1F4POOL	F4TN65	2009/9/29	3/11/2011	528	1.45	43869
1F4POOL	F4TN82	2009/9/29	3/11/2011	528	1.45	43879
1F4POOL	F4TN87	2009/9/29	3/11/2011	528	1.45	44270
1F4POOL	F4TN67	2009/9/29	3/11/2011	528	1.45	43902
1F4POOL	F4UN91	2009/9/29	3/11/2011	528	1.45	43282
1F4POOL	F4UN92	2009/9/29	3/11/2011	528	1.45	48072
1F4POOL	F4UN83	2009/9/29	3/11/2011	528	1.45	45414
1F4POOL	F4UN85	2009/9/29	3/11/2011	528	1.45	47131
1F4POOL	F4UN86	2009/9/29	3/11/2011	528	1.45	42450
1F4POOL	F4UN87	2009/9/29	3/11/2011	528	1.45	47095
1F4POOL	F4UN88	2009/9/29	3/11/2011	528	1.45	49266
1F4POOL	F4UN89	2009/9/29	3/11/2011	528	1.45	43449
1F4POOL	F4UN8	2009/9/29	3/11/2011	528	1.45	46742
1F4POOL	F4UN1	2009/9/29	3/11/2011	528	1.45	46747
1F4POOL	F4UN2	2009/9/29	3/11/2011	528	1.45	41169
1F4POOL	F4UN3	2009/9/29	3/11/2011	528	1.45	46621
1F4POOL	F4UN29	2009/9/29	3/11/2011	528	1.45	46861
1F4POOL	F4UN30	2009/9/29	3/11/2011	528	1.45	42294
1F4POOL	F4UN9	2009/9/29	3/11/2011	528	1.45	44081
1F4POOL	F4UN32	2009/9/29	3/11/2011	528	1.45	49270
1F4POOL	F4UN33	2009/9/29	3/11/2011	528	1.45	43295
1F4POOL	F4UN35	2009/9/29	3/11/2011	528	1.45	43379
1F4POOL	F4UN36	2009/9/29	3/11/2011	528	1.45	47562
1F4POOL	F4UN38	2009/9/29	3/11/2011	528	1.45	48130
1F4POOL	F4UN39	2009/9/29	3/11/2011	528	1.45	44715
1F4POOL	F4UN41	2009/9/29	3/11/2011	528	1.45	46767
1F4POOL	F4UN44	2009/9/29	3/11/2011	528	1.45	46825
1F4POOL	F4UN76	2009/9/29	3/11/2011	528	1.45	44388
1F4POOL	F4UN78	2009/9/29	3/11/2011	528	1.45	46754
1F4POOL	F4UN105	2009/9/29	3/11/2011	528	1.45	44691
1F4POOL	F4UN107	2009/9/29	3/11/2011	528	1.45	48566
1F4POOL	F4UN98	2010/11/30	3/11/2011	101	0.28	43049
1F4POOL	F4UN101	2010/11/30	3/11/2011	101	0.28	45431
1F4POOL	F4UN103	2010/11/30	3/11/2011	101	0.28	45829
1F4POOL	F4UN108	2010/11/30	3/11/2011	101	0.28	43621
1F4POOL	F4UN109	2010/11/30	3/11/2011	101	0.28	45436
1F4POOL	F4UN112	2010/11/30	3/11/2011	101	0.28	48146
1F4POOL	F4UN114	2010/11/30	3/11/2011	101	0.28	49476

1F4POOL	F4UN115	2010/11/30	3/11/2011	101	0.28	48880
1F4POOL	F4UN46	2010/11/30	3/11/2011	101	0.28	43359
1F4POOL	F4UN47	2010/11/30	3/11/2011	101	0.28	40451
1F4POOL	F4UN48	2010/11/30	3/11/2011	101	0.28	45986
1F4POOL	F4UN49	2010/11/30	3/11/2011	101	0.28	39722
1F4POOL	F4UN52	2010/11/30	3/11/2011	101	0.28	42439
1F4POOL	F4UN54	2010/11/30	3/11/2011	101	0.28	44863
1F4POOL	F4UN56	2010/11/30	3/11/2011	101	0.28	49875
1F4POOL	F4UN62	2010/11/30	3/11/2011	101	0.28	44988
1F4POOL	F4UN75	2010/11/30	3/11/2011	101	0.28	46035
1F4POOL	F4UN80	2010/11/30	3/11/2011	101	0.28	43062
1F4POOL	F4UN45	2010/11/30	3/11/2011	101	0.28	44789
1F4POOL	F4UN124	2010/11/30	3/11/2011	101	0.28	47189
1F4POOL	F4UN129	2010/11/30	3/11/2011	101	0.28	43282
1F4POOL	F4UN134	2010/11/30	3/11/2011	101	0.28	44853
1F4POOL	F4UN34	2010/11/30	3/11/2011	101	0.28	45080
1F4POOL	F4UN70	2010/11/30	3/11/2011	101	0.28	49019
1F4POOL	F4UN73	2010/11/30	3/11/2011	101	0.28	45109
1F4POOL	F4UN123	2010/11/30	3/11/2011	101	0.28	49362
1F4POOL	F4UN12	2010/11/30	3/11/2011	101	0.28	45737
1F4POOL	F4UN14	2010/11/30	3/11/2011	101	0.28	48465
1F4POOL	F4UN15	2010/11/30	3/11/2011	101	0.28	44610
1F4POOL	F4UN17	2010/11/30	3/11/2011	101	0.28	41347
1F4POOL	F4UN19	2010/11/30	3/11/2011	101	0.28	43919
1F4POOL	F4UN20	2010/11/30	3/11/2011	101	0.28	46196
1F4POOL	F4UN24	2010/11/30	3/11/2011	101	0.28	42710
1F4POOL	F4UN25	2010/11/30	3/11/2011	101	0.28	41454
1F4POOL	F4UN26	2010/11/30	3/11/2011	101	0.28	44733
1F4POOL	F4WN43	2010/11/30	3/11/2011	101	0.28	33564
1F4POOL	F4WN44	2010/11/30	3/11/2011	101	0.28	31186
1F4POOL	F4WN45	2010/11/30	3/11/2011	101	0.28	39097
1F4POOL	F4WN46	2010/11/30	3/11/2011	101	0.28	38852
1F4POOL	F4WN37	2010/11/30	3/11/2011	101	0.28	33630
1F4POOL	F4UN117	2010/11/30	3/11/2011	101	0.28	49440
1F4POOL	F4UN118	2010/11/30	3/11/2011	101	0.28	48766
1F4POOL	F4UN119	2010/11/30	3/11/2011	101	0.28	47748
1F4POOL	F4UN120	2010/11/30	3/11/2011	101	0.28	48341
1F4POOL	F4UN121	2010/11/30	3/11/2011	101	0.28	49174
1F4POOL	F4UN122	2010/11/30	3/11/2011	101	0.28	47785
1F4POOL	F4UN116	2010/11/30	3/11/2011	101	0.28	47224
1F4POOL	F4UN82	2010/11/30	3/11/2011	101	0.28	43349
1F4POOL	F4UN84	2010/11/30	3/11/2011	101	0.28	49899
1F4POOL	F4UN90	2010/11/30	3/11/2011	101	0.28	45257
1F4POOL	F4WN3	2010/11/30	3/11/2011	101	0.28	33086
1F4POOL	F4WN4	2010/11/30	3/11/2011	101	0.28	32685
1F4POOL	F4WN5	2010/11/30	3/11/2011	101	0.28	34535
1F4POOL	F4WN6	2010/11/30	3/11/2011	101	0.28	34610
1F4POOL	F4WN7	2010/11/30	3/11/2011	101	0.28	35331
1F4POOL	F4WN8	2010/11/30	3/11/2011	101	0.28	35084
1F4POOL	F4WN9	2010/11/30	3/11/2011	101	0.28	29439
1F4POOL	F4WN10	2010/11/30	3/11/2011	101	0.28	30317
1F4POOL	F4WN11	2010/11/30	3/11/2011	101	0.28	29309
1F4POOL	F4WN12	2010/11/30	3/11/2011	101	0.28	29353

1F4POOL	F4WN13	2010/11/30	3/11/2011	101	0.28	33583
1F4POOL	F4WN14	2010/11/30	3/11/2011	101	0.28	33960
1F4POOL	F4WN15	2010/11/30	3/11/2011	101	0.28	34249
1F4POOL	F4WN16	2010/11/30	3/11/2011	101	0.28	33997
1F4POOL	F4WN17	2010/11/30	3/11/2011	101	0.28	33573
1F4POOL	F4WN18	2010/11/30	3/11/2011	101	0.28	33859
1F4POOL	F4WN19	2010/11/30	3/11/2011	101	0.28	34135
1F4POOL	F4WN20	2010/11/30	3/11/2011	101	0.28	33750
1F4POOL	F4WN21	2010/11/30	3/11/2011	101	0.28	30307
1F4POOL	F4WN22	2010/11/30	3/11/2011	101	0.28	29876
1F4POOL	F4WN23	2010/11/30	3/11/2011	101	0.28	30209
1F4POOL	F4WN25	2010/11/30	3/11/2011	101	0.28	31776
1F4POOL	F4WN26	2010/11/30	3/11/2011	101	0.28	30854
1F4POOL	F4WN28	2010/11/30	3/11/2011	101	0.28	32513
1F4POOL	F4WN30	2010/11/30	3/11/2011	101	0.28	35747
1F4POOL	F4WN31	2010/11/30	3/11/2011	101	0.28	34642
1F4POOL	F4WN33	2010/11/30	3/11/2011	101	0.28	34060
1F4POOL	F4WN34	2010/11/30	3/11/2011	101	0.28	33665
1F4POOL	F4WN1	2010/11/30	3/11/2011	101	0.28	33124
1F4POOL	F4WN36	2010/11/30	3/11/2011	101	0.28	34234
1F4POOL	F4WN47	2010/11/30	3/11/2011	101	0.28	38230
1F4POOL	F4WN48	2010/11/30	3/11/2011	101	0.28	39102
1F4POOL	F4WN49	2010/11/30	3/11/2011	101	0.28	37466
1F4POOL	F4WN50	2010/11/30	3/11/2011	101	0.28	37945
1F4POOL	F4WN51	2010/11/30	3/11/2011	101	0.28	37664
1F4POOL	F4WN52	2010/11/30	3/11/2011	101	0.28	37299
1F4POOL	F4WN53	2010/11/30	3/11/2011	101	0.28	36061
1F4POOL	F4WN54	2010/11/30	3/11/2011	101	0.28	36100
1F4POOL	F4WN55	2010/11/30	3/11/2011	101	0.28	36107
1F4POOL	F4WN56	2010/11/30	3/11/2011	101	0.28	34296
1F4POOL	F4WN57	2010/11/30	3/11/2011	101	0.28	35229
1F4POOL	F4WN58	2010/11/30	3/11/2011	101	0.28	35154
1F4POOL	F4WN59	2010/11/30	3/11/2011	101	0.28	35208
1F4POOL	F4WN60	2010/11/30	3/11/2011	101	0.28	33802
1F4POOL	F4WN61	2010/11/30	3/11/2011	101	0.28	36269
1F4POOL	F4WN62	2010/11/30	3/11/2011	101	0.28	38253
1F4POOL	F4WN2	2010/11/30	3/11/2011	101	0.28	32168
1F4POOL	F4ABN100	2010/11/30	3/11/2011	101	0.28	10986
1F4POOL	F4ABN101	2010/11/30	3/11/2011	101	0.28	10734
1F4POOL	F4ABN102	2010/11/30	3/11/2011	101	0.28	10735
1F4POOL	F4ABN103	2010/11/30	3/11/2011	101	0.28	10737
1F4POOL	F4ABN104	2010/11/30	3/11/2011	101	0.28	10738
1F4POOL	F4VN83	2010/11/30	3/11/2011	101	0.28	41032
1F4POOL	F4VN84	2010/11/30	3/11/2011	101	0.28	41381
1F4POOL	F4VN85	2010/11/30	3/11/2011	101	0.28	37141
1F4POOL	F4VN86	2010/11/30	3/11/2011	101	0.28	37849
1F4POOL	F4VN87	2010/11/30	3/11/2011	101	0.28	36735
1F4POOL	F4VN88	2010/11/30	3/11/2011	101	0.28	37833
1F4POOL	F4VN89	2010/11/30	3/11/2011	101	0.28	39064
1F4POOL	F4VN90	2010/11/30	3/11/2011	101	0.28	39412
1F4POOL	F4VN91	2010/11/30	3/11/2011	101	0.28	38738
1F4POOL	F4VN92	2010/11/30	3/11/2011	101	0.28	39501
1F4POOL	F4VN93	2010/11/30	3/11/2011	101	0.28	37241

1F4POOL	F4VN94	2010/11/30	3/11/2011	101	0.28	38316
1F4POOL	F4VN95	2010/11/30	3/11/2011	101	0.28	36699
1F4POOL	F4VN97	2010/11/30	3/11/2011	101	0.28	36964
1F4POOL	F4VN98	2010/11/30	3/11/2011	101	0.28	36990
1F4POOL	F4VN100	2010/11/30	3/11/2011	101	0.28	37129
1F4POOL	F4VN102	2010/11/30	3/11/2011	101	0.28	37169
1F4POOL	F4VN103	2010/11/30	3/11/2011	101	0.28	36893
1F4POOL	F4VN105	2010/11/30	3/11/2011	101	0.28	39030
1F4POOL	F4VN106	2010/11/30	3/11/2011	101	0.28	38976
1F4POOL	F4VN108	2010/11/30	3/11/2011	101	0.28	37676
1F4POOL	F4VN109	2010/11/30	3/11/2011	101	0.28	35218
1F4POOL	F4VN110	2010/11/30	3/11/2011	101	0.28	36384
1F4POOL	F4VN111	2010/11/30	3/11/2011	101	0.28	36346
1F4POOL	F4VN112	2010/11/30	3/11/2011	101	0.28	34912
1F4POOL	F4VN113	2010/11/30	3/11/2011	101	0.28	47862
1F4POOL	F4VN114	2010/11/30	3/11/2011	101	0.28	48746
1F4POOL	F4VN115	2010/11/30	3/11/2011	101	0.28	44855
1F4POOL	F4VN116	2010/11/30	3/11/2011	101	0.28	43933
1F4POOL	F4VN117	2010/11/30	3/11/2011	101	0.28	50520
1F4POOL	F4VN118	2010/11/30	3/11/2011	101	0.28	44692
1F4POOL	F4VN119	2010/11/30	3/11/2011	101	0.28	45060
1F4POOL	F4VN120	2010/11/30	3/11/2011	101	0.28	43725
1F4POOL	F4VN121	2010/11/30	3/11/2011	101	0.28	45069
1F4POOL	F4VN122	2010/11/30	3/11/2011	101	0.28	39649
1F4POOL	F4VN123	2010/11/30	3/11/2011	101	0.28	40640
1F4POOL	F4WN63	2010/11/30	3/11/2011	101	0.28	38174
1F4POOL	F4WN64	2010/11/30	3/11/2011	101	0.28	38165
1F4POOL	F4WN65	2010/11/30	3/11/2011	101	0.28	37360
1F4POOL	F4WN66	2010/11/30	3/11/2011	101	0.28	37322
1F4POOL	F4WN67	2010/11/30	3/11/2011	101	0.28	37067
1F4POOL	F4WN68	2010/11/30	3/11/2011	101	0.28	36044
1F4POOL	F4WN70	2010/11/30	3/11/2011	101	0.28	39651
1F4POOL	F4WN71	2010/11/30	3/11/2011	101	0.28	37349
1F4POOL	F4WN73	2010/11/30	3/11/2011	101	0.28	33592
1F4POOL	F4WN74	2010/11/30	3/11/2011	101	0.28	35251
1F4POOL	F4WN76	2010/11/30	3/11/2011	101	0.28	34239
1F4POOL	F4WN77	2010/11/30	3/11/2011	101	0.28	36743
1F4POOL	F4WN79	2010/11/30	3/11/2011	101	0.28	40791
1F4POOL	F4WN80	2010/11/30	3/11/2011	101	0.28	40442
1F4POOL	F4WN82	2010/11/30	3/11/2011	101	0.28	36177
1F4POOL	F4WN83	2010/11/30	3/11/2011	101	0.28	35210
1F4POOL	F4WN84	2010/11/30	3/11/2011	101	0.28	35635
1F4POOL	F4WN85	2010/11/30	3/11/2011	101	0.28	34898
1F4POOL	F4WN86	2010/11/30	3/11/2011	101	0.28	35978
1F4POOL	F4WN87	2010/11/30	3/11/2011	101	0.28	35395
1F4POOL	F4WN88	2010/11/30	3/11/2011	101	0.28	36415
1F4POOL	F4WN89	2010/11/30	3/11/2011	101	0.28	32510
1F4POOL	F4WN90	2010/11/30	3/11/2011	101	0.28	34634
1F4POOL	F4WN91	2010/11/30	3/11/2011	101	0.28	34209
1F4POOL	F4WN92	2010/11/30	3/11/2011	101	0.28	32732
1F4POOL	F4WN93	2010/11/30	3/11/2011	101	0.28	40595
1F4POOL	F4WN94	2010/11/30	3/11/2011	101	0.28	40909
1F4POOL	F4WN95	2010/11/30	3/11/2011	101	0.28	40669

1F4POOL	F4WN96	2010/11/30	3/11/2011	101	0.28	39827
1F4POOL	F4WN97	2010/11/30	3/11/2011	101	0.28	31806
1F4POOL	F4WN98	2010/11/30	3/11/2011	101	0.28	32138
1F4POOL	F4WN99	2010/11/30	3/11/2011	101	0.28	32972
1F4POOL	F4WN100	2010/11/30	3/11/2011	101	0.28	32776
1F4POOL	F4WN101	2010/11/30	3/11/2011	101	0.28	33600
1F4POOL	F4WN102	2010/11/30	3/11/2011	101	0.28	30558
1F4POOL	F4WN103	2010/11/30	3/11/2011	101	0.28	33327
1F4POOL	F4WN104	2010/11/30	3/11/2011	101	0.28	33287
1F4POOL	F4WN105	2010/11/30	3/11/2011	101	0.28	30334
1F4POOL	F4WN106	2010/11/30	3/11/2011	101	0.28	35407
1F4POOL	F4WN108	2010/11/30	3/11/2011	101	0.28	35099
1F4POOL	F4WN109	2010/11/30	3/11/2011	101	0.28	32918
1F4POOL	F4WN111	2010/11/30	3/11/2011	101	0.28	33628
1F4POOL	F4WN113	2010/11/30	3/11/2011	101	0.28	33392
1F4POOL	F4WN114	2010/11/30	3/11/2011	101	0.28	33391
1F4POOL	F4WN116	2010/11/30	3/11/2011	101	0.28	33639
1F4POOL	F4WN117	2010/11/30	3/11/2011	101	0.28	34287
1F4POOL	F4WN118	2010/11/30	3/11/2011	101	0.28	33235
1F4POOL	F4WN119	2010/11/30	3/11/2011	101	0.28	34417
1F4POOL	F4WN120	2010/11/30	3/11/2011	101	0.28	34302
1F4POOL	F4WN121	2010/11/30	3/11/2011	101	0.28	30441
1F4POOL	F4WN122	2010/11/30	3/11/2011	101	0.28	33670
1F4POOL	F4WN123	2010/11/30	3/11/2011	101	0.28	33660
1F4POOL	F4WN124	2010/11/30	3/11/2011	101	0.28	35634
1F4POOL	F4ABN1	2010/11/30	3/11/2011	101	0.28	25912
1F4POOL	F4ABN2	2010/11/30	3/11/2011	101	0.28	26065
1F4POOL	F4ABN3	2010/11/30	3/11/2011	101	0.28	25727
1F4POOL	F4ABN4	2010/11/30	3/11/2011	101	0.28	25548
1F4POOL	F4ABN5	2010/11/30	3/11/2011	101	0.28	26438
1F4POOL	F4ABN6	2010/11/30	3/11/2011	101	0.28	26226
1F4POOL	F4ABN7	2010/11/30	3/11/2011	101	0.28	26031
1F4POOL	F4ABN8	2010/11/30	3/11/2011	101	0.28	26055
1F4POOL	F4ABN9	2010/11/30	3/11/2011	101	0.28	24736
1F4POOL	F4ABN10	2010/11/30	3/11/2011	101	0.28	24540
1F4POOL	F4ABN11	2010/11/30	3/11/2011	101	0.28	24238
1F4POOL	F4ABN12	2010/11/30	3/11/2011	101	0.28	24246
1F4POOL	F4ABN13	2010/11/30	3/11/2011	101	0.28	25495
1F4POOL	F4ABN14	2010/11/30	3/11/2011	101	0.28	25733
1F4POOL	F4ABN15	2010/11/30	3/11/2011	101	0.28	25202
1F4POOL	F4ABN16	2010/11/30	3/11/2011	101	0.28	24948
1F4POOL	F4ABN17	2010/11/30	3/11/2011	101	0.28	23843
1F4POOL	F4ABN18	2010/11/30	3/11/2011	101	0.28	23919
1F4POOL	F4ABN19	2010/11/30	3/11/2011	101	0.28	23768
1F4POOL	F4ABN20	2010/11/30	3/11/2011	101	0.28	23579
1F4POOL	F4ABN21	2010/11/30	3/11/2011	101	0.28	23733
1F4POOL	F4ABN22	2010/11/30	3/11/2011	101	0.28	23825
1F4POOL	F4ABN23	2010/11/30	3/11/2011	101	0.28	23469
1F4POOL	F4ABN24	2010/11/30	3/11/2011	101	0.28	23223
1F4POOL	F4ABN25	2010/11/30	3/11/2011	101	0.28	25585
1F4POOL	F4ABN26	2010/11/30	3/11/2011	101	0.28	25385
1F4POOL	F4ABN27	2010/11/30	3/11/2011	101	0.28	25190
1F4POOL	F4ABN28	2010/11/30	3/11/2011	101	0.28	25204

1F4POOL	F4ABN29	2010/11/30	3/11/2011	101	0.28	22059
1F4POOL	F4ABN30	2010/11/30	3/11/2011	101	0.28	22225
1F4POOL	F4ABN31	2010/11/30	3/11/2011	101	0.28	21621
1F4POOL	F4ABN32	2010/11/30	3/11/2011	101	0.28	21452
1F4POOL	F4ABN33	2010/11/30	3/11/2011	101	0.28	23151
1F4POOL	F4ABN34	2010/11/30	3/11/2011	101	0.28	22985
1F4POOL	F4ABN35	2010/11/30	3/11/2011	101	0.28	22661
1F4POOL	F4ABN36	2010/11/30	3/11/2011	101	0.28	22504
1F4POOL	F4ABN37	2010/11/30	3/11/2011	101	0.28	22783
1F4POOL	F4ABN38	2010/11/30	3/11/2011	101	0.28	22645
1F4POOL	F4ABN39	2010/11/30	3/11/2011	101	0.28	22387
1F4POOL	F4ABN40	2010/11/30	3/11/2011	101	0.28	22334
1F4POOL	F4ABN41	2010/11/30	3/11/2011	101	0.28	20151
1F4POOL	F4ABN42	2010/11/30	3/11/2011	101	0.28	20365
1F4POOL	F4ABN43	2010/11/30	3/11/2011	101	0.28	19888
1F4POOL	F4ABN44	2010/11/30	3/11/2011	101	0.28	19643
1F4POOL	F4ABN45	2010/11/30	3/11/2011	101	0.28	21876
1F4POOL	F4ABN46	2010/11/30	3/11/2011	101	0.28	21687
1F4POOL	F4ABN47	2010/11/30	3/11/2011	101	0.28	21399
1F4POOL	F4ABN48	2010/11/30	3/11/2011	101	0.28	21174
1F4POOL	F4ABN49	2010/11/30	3/11/2011	101	0.28	20195
1F4POOL	F4ABN50	2010/11/30	3/11/2011	101	0.28	20382
1F4POOL	F4ABN51	2010/11/30	3/11/2011	101	0.28	19739
1F4POOL	F4ABN52	2010/11/30	3/11/2011	101	0.28	19727
1F4POOL	F4ABN53	2010/11/30	3/11/2011	101	0.28	19995
1F4POOL	F4ABN54	2010/11/30	3/11/2011	101	0.28	19982
1F4POOL	F4ABN55	2010/11/30	3/11/2011	101	0.28	19832
1F4POOL	F4ABN56	2010/11/30	3/11/2011	101	0.28	19659
1F4POOL	F4ABN57	2010/11/30	3/11/2011	101	0.28	19868
1F4POOL	F4ABN58	2010/11/30	3/11/2011	101	0.28	19717
1F4POOL	F4ABN59	2010/11/30	3/11/2011	101	0.28	19577
1F4POOL	F4ABN60	2010/11/30	3/11/2011	101	0.28	19635
1F4POOL	F4ABN61	2010/11/30	3/11/2011	101	0.28	13036
1F4POOL	F4ABN62	2010/11/30	3/11/2011	101	0.28	13034
1F4POOL	F4ABN63	2010/11/30	3/11/2011	101	0.28	13032
1F4POOL	F4ABN64	2010/11/30	3/11/2011	101	0.28	13036
1F4POOL	F4ABN65	2010/11/30	3/11/2011	101	0.28	12069
1F4POOL	F4ABN66	2010/11/30	3/11/2011	101	0.28	12068
1F4POOL	F4ABN67	2010/11/30	3/11/2011	101	0.28	12073
1F4POOL	F4ABN68	2010/11/30	3/11/2011	101	0.28	12074
1F4POOL	F4ABN69	2010/11/30	3/11/2011	101	0.28	11680
1F4POOL	F4ABN70	2010/11/30	3/11/2011	101	0.28	11679
1F4POOL	F4ABN71	2010/11/30	3/11/2011	101	0.28	11679
1F4POOL	F4ABN72	2010/11/30	3/11/2011	101	0.28	11679
1F4POOL	F4WN125	2010/11/30	3/11/2011	101	0.28	33306
1F4POOL	F4WN126	2010/11/30	3/11/2011	101	0.28	30352
1F4POOL	F4WN127	2010/11/30	3/11/2011	101	0.28	33334
1F4POOL	F4WN128	2010/11/30	3/11/2011	101	0.28	33284
1F4POOL	F4WN24	2010/11/30	3/11/2011	101	0.28	29847
1F4POOL	F4WN27	2010/11/30	3/11/2011	101	0.28	32530
1F4POOL	F4WN29	2010/11/30	3/11/2011	101	0.28	33316
1F4POOL	F4WN32	2010/11/30	3/11/2011	101	0.28	33242
1F4POOL	F4WN35	2010/11/30	3/11/2011	101	0.28	34225

1F4POOL	F4WN69	2010/11/30	3/11/2011	101	0.28	35734
1F4POOL	F4WN72	2010/11/30	3/11/2011	101	0.28	40050
1F4POOL	F4WN75	2010/11/30	3/11/2011	101	0.28	35239
1F4POOL	F4WN78	2010/11/30	3/11/2011	101	0.28	40768
1F4POOL	F4WN81	2010/11/30	3/11/2011	101	0.28	37254
1F4POOL	F4WN107	2010/11/30	3/11/2011	101	0.28	35329
1F4POOL	F4WN110	2010/11/30	3/11/2011	101	0.28	33512
1F4POOL	F4WN112	2010/11/30	3/11/2011	101	0.28	33358
1F4POOL	F4WN115	2010/11/30	3/11/2011	101	0.28	33844
1F4POOL	F4ABN73	2010/11/30	3/11/2011	101	0.28	12299
1F4POOL	F4ABN74	2010/11/30	3/11/2011	101	0.28	12298
1F4POOL	F4ABN75	2010/11/30	3/11/2011	101	0.28	12299
1F4POOL	F4ABN76	2010/11/30	3/11/2011	101	0.28	12295
1F4POOL	F4ABN77	2010/11/30	3/11/2011	101	0.28	11936
1F4POOL	F4WN38	2010/11/30	3/11/2011	101	0.28	33828
1F4POOL	F4WN39	2010/11/30	3/11/2011	101	0.28	34427
1F4POOL	F4WN40	2010/11/30	3/11/2011	101	0.28	34116
1F4POOL	F4WN41	2010/11/30	3/11/2011	101	0.28	28004
1F4POOL	F4WN42	2010/11/30	3/11/2011	101	0.28	29710
1F4POOL	F4UN7	2010/11/30	3/11/2011	101	0.28	43393
1F4POOL	F4AAN79	2010/11/30	3/11/2011	101	0.28	24734
1F4POOL	F4AAN80	2010/11/30	3/11/2011	101	0.28	24533
1F4POOL	F4AAN22	2010/11/30	3/11/2011	101	0.28	27107
1F4POOL	F4AAN25	2010/11/30	3/11/2011	101	0.28	27552
1F4POOL	F4AAN28	2010/11/30	3/11/2011	101	0.28	26806
1F4POOL	F4AAN31	2010/11/30	3/11/2011	101	0.28	26354
1F4POOL	F4AAN34	2010/11/30	3/11/2011	101	0.28	26186
1F4POOL	F4AAN59	2010/11/30	3/11/2011	101	0.28	26026
1F4POOL	F4AAN62	2010/11/30	3/11/2011	101	0.28	36521
1F4POOL	F4AAN65	2010/11/30	3/11/2011	101	0.28	26681
1F4POOL	F4AAN68	2010/11/30	3/11/2011	101	0.28	26428
1F4POOL	F4AAN2	2010/11/30	3/11/2011	101	0.28	24181
1F4POOL	F4AAN3	2010/11/30	3/11/2011	101	0.28	23952
1F4POOL	F4AAN4	2010/11/30	3/11/2011	101	0.28	23814
1F4POOL	F4AAN5	2010/11/30	3/11/2011	101	0.28	24881
1F4POOL	F4AAN6	2010/11/30	3/11/2011	101	0.28	24855
1F4POOL	F4AAN7	2010/11/30	3/11/2011	101	0.28	24587
1F4POOL	F4AAN8	2010/11/30	3/11/2011	101	0.28	24484
1F4POOL	F4AAN9	2010/11/30	3/11/2011	101	0.28	26870
1F4POOL	F4AAN10	2010/11/30	3/11/2011	101	0.28	26481
1F4POOL	F4AAN11	2010/11/30	3/11/2011	101	0.28	26213
1F4POOL	F4AAN12	2010/11/30	3/11/2011	101	0.28	26138
1F4POOL	F4AAN13	2010/11/30	3/11/2011	101	0.28	26867
1F4POOL	F4AAN14	2010/11/30	3/11/2011	101	0.28	26885
1F4POOL	F4AAN15	2010/11/30	3/11/2011	101	0.28	26571
1F4POOL	F4AAN16	2010/11/30	3/11/2011	101	0.28	26492
1F4POOL	F4AAN17	2010/11/30	3/11/2011	101	0.28	24765
1F4POOL	F4AAN18	2010/11/30	3/11/2011	101	0.28	24503
1F4POOL	F4AAN19	2010/11/30	3/11/2011	101	0.28	24422
1F4POOL	F4AAN20	2010/11/30	3/11/2011	101	0.28	24283
1F4POOL	F4AAN21	2010/11/30	3/11/2011	101	0.28	26939
1F4POOL	F4AAN23	2010/11/30	3/11/2011	101	0.28	26745
1F4POOL	F4AAN1	2010/11/30	3/11/2011	101	0.28	24308

1F4POOL	F4AAN24	2010/11/30	3/11/2011	101	0.28	26654
1F4POOL	F4AAN26	2010/11/30	3/11/2011	101	0.28	27125
1F4POOL	F4AAN27	2010/11/30	3/11/2011	101	0.28	26922
1F4POOL	F4AAN29	2010/11/30	3/11/2011	101	0.28	26846
1F4POOL	F4AAN30	2010/11/30	3/11/2011	101	0.28	26693
1F4POOL	F4AAN32	2010/11/30	3/11/2011	101	0.28	26248
1F4POOL	F4AAN33	2010/11/30	3/11/2011	101	0.28	26516
1F4POOL	F4AAN35	2010/11/30	3/11/2011	101	0.28	26024
1F4POOL	F4AAN36	2010/11/30	3/11/2011	101	0.28	25907
1F4POOL	F4AAN37	2010/11/30	3/11/2011	101	0.28	26860
1F4POOL	F4AAN38	2010/11/30	3/11/2011	101	0.28	27172
1F4POOL	F4AAN39	2010/11/30	3/11/2011	101	0.28	26813
1F4POOL	F4VN1	2010/11/30	3/11/2011	101	0.28	45735
1F4POOL	F4VN2	2010/11/30	3/11/2011	101	0.28	44628
1F4POOL	F4ACN1	2010/11/30	3/11/2011	101	0.28	11638
1F4POOL	F4ACN2	2010/11/30	3/11/2011	101	0.28	11638
1F4POOL	F4ACN3	2010/11/30	3/11/2011	101	0.28	11640
1F4POOL	F4ACN4	2010/11/30	3/11/2011	101	0.28	11641
1F4POOL	F4ACN5	2010/11/30	3/11/2011	101	0.28	12636
1F4POOL	F4ACN6	2010/11/30	3/11/2011	101	0.28	12635
1F4POOL	F4ACN7	2010/11/30	3/11/2011	101	0.28	12636
1F4POOL	F4ACN8	2010/11/30	3/11/2011	101	0.28	12634
1F4POOL	F4ACN9	2010/11/30	3/11/2011	101	0.28	13172
1F4POOL	F4ACN10	2010/11/30	3/11/2011	101	0.28	13171
1F4POOL	F4ACN11	2010/11/30	3/11/2011	101	0.28	13175
1F4POOL	F4ACN12	2010/11/30	3/11/2011	101	0.28	13173
1F4POOL	F4ACN13	2010/11/30	3/11/2011	101	0.28	12933
1F4POOL	F4ACN14	2010/11/30	3/11/2011	101	0.28	12940
1F4POOL	F4ACN15	2010/11/30	3/11/2011	101	0.28	12938
1F4POOL	F4ACN16	2010/11/30	3/11/2011	101	0.28	12938
1F4POOL	F4ACN17	2010/11/30	3/11/2011	101	0.28	12563
1F4POOL	F4ACN18	2010/11/30	3/11/2011	101	0.28	12561
1F4POOL	F4ACN19	2010/11/30	3/11/2011	101	0.28	12564
1F4POOL	F4ACN20	2010/11/30	3/11/2011	101	0.28	12567
1F4POOL	F4ACN21	2010/11/30	3/11/2011	101	0.28	10788
1F4POOL	F4ACN22	2010/11/30	3/11/2011	101	0.28	10789
1F4POOL	F4ACN23	2010/11/30	3/11/2011	101	0.28	10787
1F4POOL	F4ACN24	2010/11/30	3/11/2011	101	0.28	10785
1F4POOL	F4ACN25	2010/11/30	3/11/2011	101	0.28	11481
1F4POOL	F4ACN26	2010/11/30	3/11/2011	101	0.28	11485
1F4POOL	F4ACN27	2010/11/30	3/11/2011	101	0.28	11483
1F4POOL	F4ACN28	2010/11/30	3/11/2011	101	0.28	11486
1F4POOL	F4ACN29	2010/11/30	3/11/2011	101	0.28	11377
1F4POOL	F4ACN30	2010/11/30	3/11/2011	101	0.28	11382
1F4POOL	F4ACN31	2010/11/30	3/11/2011	101	0.28	11379
1F4POOL	F4ACN32	2010/11/30	3/11/2011	101	0.28	11377
1F4POOL	F4ACN33	2010/11/30	3/11/2011	101	0.28	11762
1F4POOL	F4ACN34	2010/11/30	3/11/2011	101	0.28	11761
1F4POOL	F4ACN35	2010/11/30	3/11/2011	101	0.28	11759
1F4POOL	F4ACN36	2010/11/30	3/11/2011	101	0.28	11757
1F4POOL	F4ACN37	2010/11/30	3/11/2011	101	0.28	12183
1F4POOL	F4ACN38	2010/11/30	3/11/2011	101	0.28	12184
1F4POOL	F4ACN39	2010/11/30	3/11/2011	101	0.28	12184

1F4POOL	F4ACN40	2010/11/30	3/11/2011	101	0.28	12189
1F4POOL	F4ACN41	2010/11/30	3/11/2011	101	0.28	12411
1F4POOL	F4ACN42	2010/11/30	3/11/2011	101	0.28	12411
1F4POOL	F4ACN43	2010/11/30	3/11/2011	101	0.28	12407
1F4POOL	F4ACN44	2010/11/30	3/11/2011	101	0.28	12399
1F4POOL	F4ACN45	2010/11/30	3/11/2011	101	0.28	11233
1F4POOL	F4ACN46	2010/11/30	3/11/2011	101	0.28	11237
1F4POOL	F4ACN47	2010/11/30	3/11/2011	101	0.28	11238
1F4POOL	F4ACN48	2010/11/30	3/11/2011	101	0.28	11236
1F4POOL	F4ACN49	2010/11/30	3/11/2011	101	0.28	12061
1F4POOL	F4ACN50	2010/11/30	3/11/2011	101	0.28	12064
1F4POOL	F4ACN51	2010/11/30	3/11/2011	101	0.28	12067
1F4POOL	F4ACN52	2010/11/30	3/11/2011	101	0.28	12063
1F4POOL	F4ACN53	2010/11/30	3/11/2011	101	0.28	12388
1F4POOL	F4ACN54	2010/11/30	3/11/2011	101	0.28	12384
1F4POOL	F4ACN55	2010/11/30	3/11/2011	101	0.28	12389
1F4POOL	F4ACN56	2010/11/30	3/11/2011	101	0.28	12391
1F4POOL	F4VN124	2010/11/30	3/11/2011	101	0.28	38874
1F4POOL	F4VN125	2010/11/30	3/11/2011	101	0.28	43250
1F4POOL	F4VN126	2010/11/30	3/11/2011	101	0.28	39301
1F4POOL	F4VN127	2010/11/30	3/11/2011	101	0.28	45917
1F4POOL	F4VN128	2010/11/30	3/11/2011	101	0.28	38838
1F4POOL	F4VN25	2010/11/30	3/11/2011	101	0.28	47872
1F4POOL	F4VN28	2010/11/30	3/11/2011	101	0.28	36629
1F4POOL	F4VN31	2010/11/30	3/11/2011	101	0.28	35623
1F4POOL	F4VN33	2010/11/30	3/11/2011	101	0.28	38234
1F4POOL	F4VN36	2010/11/30	3/11/2011	101	0.28	49329
1F4POOL	F4VN60	2010/11/30	3/11/2011	101	0.28	39952
1F4POOL	F4VN63	2010/11/30	3/11/2011	101	0.28	47802
1F4POOL	F4VN66	2010/11/30	3/11/2011	101	0.28	36852
1F4POOL	F4VN69	2010/11/30	3/11/2011	101	0.28	37328
1F4POOL	F4VN71	2010/11/30	3/11/2011	101	0.28	38111
1F4POOL	F4VN96	2010/11/30	3/11/2011	101	0.28	39152
1F4POOL	F4VN99	2010/11/30	3/11/2011	101	0.28	35968
1F4POOL	F4VN101	2010/11/30	3/11/2011	101	0.28	37368
1F4POOL	F4VN104	2010/11/30	3/11/2011	101	0.28	36434
1F4POOL	F4VN107	2010/11/30	3/11/2011	101	0.28	38379
1F4POOL	F4ABN78	2010/11/30	3/11/2011	101	0.28	11938
1F4POOL	F4ABN79	2010/11/30	3/11/2011	101	0.28	11938
1F4POOL	F4ABN80	2010/11/30	3/11/2011	101	0.28	11939
1F4POOL	F4ABN81	2010/11/30	3/11/2011	101	0.28	11651
1F4POOL	F4ABN82	2010/11/30	3/11/2011	101	0.28	11651
1F4POOL	F4ABN83	2010/11/30	3/11/2011	101	0.28	11651
1F4POOL	F4ABN84	2010/11/30	3/11/2011	101	0.28	11648
1F4POOL	F4ABN85	2010/11/30	3/11/2011	101	0.28	11835
1F4POOL	F4ABN86	2010/11/30	3/11/2011	101	0.28	11835
1F4POOL	F4ABN87	2010/11/30	3/11/2011	101	0.28	11831
1F4POOL	F4ABN88	2010/11/30	3/11/2011	101	0.28	11829
1F4POOL	F4ABN89	2010/11/30	3/11/2011	101	0.28	11884
1F4POOL	F4ABN90	2010/11/30	3/11/2011	101	0.28	11883
1F4POOL	F4ABN91	2010/11/30	3/11/2011	101	0.28	11886
1F4POOL	F4ABN92	2010/11/30	3/11/2011	101	0.28	11892
1F4POOL	F4ABN93	2010/11/30	3/11/2011	101	0.28	11853

1F4POOL	F4ABN94	2010/11/30	3/11/2011	101	0.28	11854
1F4POOL	F4ABN95	2010/11/30	3/11/2011	101	0.28	11853
1F4POOL	F4ABN96	2010/11/30	3/11/2011	101	0.28	11845
1F4POOL	F4ABN97	2010/11/30	3/11/2011	101	0.28	10987
1F4POOL	F4ABN98	2010/11/30	3/11/2011	101	0.28	10984
1F4POOL	F4ABN99	2010/11/30	3/11/2011	101	0.28	10986
1F4POOL	F4VN3	2010/11/30	3/11/2011	101	0.28	49639
1F4POOL	F4VN4	2010/11/30	3/11/2011	101	0.28	48418
1F4POOL	F4VN5	2010/11/30	3/11/2011	101	0.28	48777
1F4POOL	F4VN6	2010/11/30	3/11/2011	101	0.28	46874
1F4POOL	F4VN7	2010/11/30	3/11/2011	101	0.28	49365
1F4POOL	F4VN8	2010/11/30	3/11/2011	101	0.28	37536
1F4POOL	F4VN9	2010/11/30	3/11/2011	101	0.28	35597
1F4POOL	F4VN10	2010/11/30	3/11/2011	101	0.28	35002
1F4POOL	F4VN11	2010/11/30	3/11/2011	101	0.28	35978
1F4POOL	F4VN12	2010/11/30	3/11/2011	101	0.28	37301
1F4POOL	F4VN13	2010/11/30	3/11/2011	101	0.28	49074
1F4POOL	F4VN14	2010/11/30	3/11/2011	101	0.28	37998
1F4POOL	F4VN15	2010/11/30	3/11/2011	101	0.28	49496
1F4POOL	F4VN16	2010/11/30	3/11/2011	101	0.28	46166
1F4POOL	F4VN17	2010/11/30	3/11/2011	101	0.28	49445
1F4POOL	F4VN18	2010/11/30	3/11/2011	101	0.28	45314
1F4POOL	F4VN19	2010/11/30	3/11/2011	101	0.28	48661
1F4POOL	F4VN20	2010/11/30	3/11/2011	101	0.28	49061
1F4POOL	F4VN21	2010/11/30	3/11/2011	101	0.28	49926
1F4POOL	F4VN22	2010/11/30	3/11/2011	101	0.28	49395
1F4POOL	F4VN23	2010/11/30	3/11/2011	101	0.28	49249
1F4POOL	F4VN24	2010/11/30	3/11/2011	101	0.28	48681
1F4POOL	F4VN26	2010/11/30	3/11/2011	101	0.28	49303
1F4POOL	F4VN27	2010/11/30	3/11/2011	101	0.28	34582
1F4POOL	F4VN29	2010/11/30	3/11/2011	101	0.28	36961
1F4POOL	F4VN30	2010/11/30	3/11/2011	101	0.28	36438
1F4POOL	F4VN32	2010/11/30	3/11/2011	101	0.28	49556
1F4POOL	F4VN34	2010/11/30	3/11/2011	101	0.28	49589
1F4POOL	F4VN35	2010/11/30	3/11/2011	101	0.28	46753
1F4POOL	F4VN37	2010/11/30	3/11/2011	101	0.28	49775
1F4POOL	F4VN38	2010/11/30	3/11/2011	101	0.28	48777
1F4POOL	F4VN39	2010/11/30	3/11/2011	101	0.28	48507
1F4POOL	F4VN40	2010/11/30	3/11/2011	101	0.28	38672
1F4POOL	F4VN41	2010/11/30	3/11/2011	101	0.28	49590
1F4POOL	F4VN42	2010/11/30	3/11/2011	101	0.28	49221
1F4POOL	F4VN43	2010/11/30	3/11/2011	101	0.28	48465
1F4POOL	F4VN44	2010/11/30	3/11/2011	101	0.28	46676
1F4POOL	F4VN45	2010/11/30	3/11/2011	101	0.28	49660
1F4POOL	F4VN46	2010/11/30	3/11/2011	101	0.28	37547
1F4POOL	F4VN47	2010/11/30	3/11/2011	101	0.28	36456
1F4POOL	F4VN48	2010/11/30	3/11/2011	101	0.28	37778
1F4POOL	F4VN49	2010/11/30	3/11/2011	101	0.28	37045
1F4POOL	F4VN50	2010/11/30	3/11/2011	101	0.28	37370
1F4POOL	F4VN51	2010/11/30	3/11/2011	101	0.28	49597
1F4POOL	F4VN52	2010/11/30	3/11/2011	101	0.28	37746
1F4POOL	F4VN53	2010/11/30	3/11/2011	101	0.28	40731
1F4POOL	F4VN54	2010/11/30	3/11/2011	101	0.28	47002

1F4POOL	F4VN55	2010/11/30	3/11/2011	101	0.28	48918
1F4POOL	F4VN56	2010/11/30	3/11/2011	101	0.28	49465
1F4POOL	F4VN57	2010/11/30	3/11/2011	101	0.28	38317
1F4POOL	F4VN58	2010/11/30	3/11/2011	101	0.28	48651
1F4POOL	F4VN59	2010/11/30	3/11/2011	101	0.28	38302
1F4POOL	F4VN61	2010/11/30	3/11/2011	101	0.28	49324
1F4POOL	F4VN62	2010/11/30	3/11/2011	101	0.28	48231
1F4POOL	F4VN64	2010/11/30	3/11/2011	101	0.28	42856
1F4POOL	F4VN65	2010/11/30	3/11/2011	101	0.28	37548
1F4POOL	F4VN67	2010/11/30	3/11/2011	101	0.28	37395
1F4POOL	F4VN68	2010/11/30	3/11/2011	101	0.28	36738
1F4POOL	F4VN70	2010/11/30	3/11/2011	101	0.28	49080
1F4POOL	F4VN72	2010/11/30	3/11/2011	101	0.28	49620
1F4POOL	F4VN73	2010/11/30	3/11/2011	101	0.28	46885
1F4POOL	F4VN74	2010/11/30	3/11/2011	101	0.28	49295
1F4POOL	F4VN75	2010/11/30	3/11/2011	101	0.28	41242
1F4POOL	F4VN76	2010/11/30	3/11/2011	101	0.28	38051
1F4POOL	F4VN77	2010/11/30	3/11/2011	101	0.28	35836
1F4POOL	F4VN78	2010/11/30	3/11/2011	101	0.28	35687
1F4POOL	F4VN79	2010/11/30	3/11/2011	101	0.28	35938
1F4POOL	F4VN80	2010/11/30	3/11/2011	101	0.28	35654
1F4POOL	F4VN81	2010/11/30	3/11/2011	101	0.28	36490
1F4POOL	F4VN82	2010/11/30	3/11/2011	101	0.28	41199
1F4POOL	F4AAN40	2010/11/30	3/11/2011	101	0.28	26726
1F4POOL	F4AAN41	2010/11/30	3/11/2011	101	0.28	26595
1F4POOL	F4AAN42	2010/11/30	3/11/2011	101	0.28	26429
1F4POOL	F4AAN43	2010/11/30	3/11/2011	101	0.28	26018
1F4POOL	F4AAN44	2010/11/30	3/11/2011	101	0.28	25924
1F4POOL	F4AAN45	2010/11/30	3/11/2011	101	0.28	26466
1F4POOL	F4AAN46	2010/11/30	3/11/2011	101	0.28	26457
1F4POOL	F4AAN47	2010/11/30	3/11/2011	101	0.28	25911
1F4POOL	F4AAN48	2010/11/30	3/11/2011	101	0.28	25780
1F4POOL	F4AAN49	2010/11/30	3/11/2011	101	0.28	26762
1F4POOL	F4AAN50	2010/11/30	3/11/2011	101	0.28	26531
1F4POOL	F4AAN51	2010/11/30	3/11/2011	101	0.28	26192
1F4POOL	F4AAN52	2010/11/30	3/11/2011	101	0.28	26049
1F4POOL	F4AAN53	2010/11/30	3/11/2011	101	0.28	26284
1F4POOL	F4AAN54	2010/11/30	3/11/2011	101	0.28	26499
1F4POOL	F4AAN55	2010/11/30	3/11/2011	101	0.28	25883
1F4POOL	F4AAN56	2010/11/30	3/11/2011	101	0.28	25684
1F4POOL	F4AAN57	2010/11/30	3/11/2011	101	0.28	26589
1F4POOL	F4AAN58	2010/11/30	3/11/2011	101	0.28	26375
1F4POOL	F4AAN60	2010/11/30	3/11/2011	101	0.28	25934
1F4POOL	F4AAN61	2010/11/30	3/11/2011	101	0.28	35146
1F4POOL	F4AAN63	2010/11/30	3/11/2011	101	0.28	36681
1F4POOL	F4AAN64	2010/11/30	3/11/2011	101	0.28	36262
1F4POOL	F4AAN66	2010/11/30	3/11/2011	101	0.28	26763
1F4POOL	F4AAN67	2010/11/30	3/11/2011	101	0.28	26551
1F4POOL	F4AAN69	2010/11/30	3/11/2011	101	0.28	24525
1F4POOL	F4AAN70	2010/11/30	3/11/2011	101	0.28	24466
1F4POOL	F4AAN71	2010/11/30	3/11/2011	101	0.28	24241
1F4POOL	F4AAN72	2010/11/30	3/11/2011	101	0.28	24160
1F4POOL	F4AAN73	2010/11/30	3/11/2011	101	0.28	24672

1F4POOL	F4AAN74	2010/11/30	3/11/2011	101	0.28	24748
1F4POOL	F4AAN75	2010/11/30	3/11/2011	101	0.28	24509
1F4POOL	F4AAN76	2010/11/30	3/11/2011	101	0.28	24420
1F4POOL	F4AAN77	2010/11/30	3/11/2011	101	0.28	25155
1F4POOL	F4AAN78	2010/11/30	3/11/2011	101	0.28	24895
1F4POOL	F4UN5	2010/11/30	3/11/2011	101	0.28	45083
1F4POOL	F4UN6	2010/11/30	3/11/2011	101	0.28	43486
1F4POOL	F4UN28	2010/11/30	3/11/2011	101	0.28	49435
1F4POOL	F4UN42	2010/11/30	3/11/2011	101	0.28	48699
1F4POOL	F4UN110	2010/11/30	3/11/2011	101	0.28	44525
1F4POOL	F4UN113	2010/11/30	3/11/2011	101	0.28	45480
	F4ACN100					
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F4ADN98
F4ADN99

Unit	Fuel ID	Shutdown Date	Earthquake Date	Cooling Duration (Days)	Cooling Duration (Yeas)	Burn up
				8588	MAX=	48459
				556	MIN=	5338
				2917.71168	AVE=	41952.1934
1F5POOL	F5M23	1999/12/8	3/11/2011	4111	11.26	33862
1F5POOL	F5CN6	1987/9/5	3/11/2011	8588	23.53	35453
1F5POOL	F5CN8	1987/9/5	3/11/2011	8588	23.53	35609
1F5POOL	F5CN9	1987/9/5	3/11/2011	8588	23.53	35034
1F5POOL	F5CN10	1987/9/5	3/11/2011	8588	23.53	35455
1F5POOL	F5LN100	1997/3/21	3/11/2011	5103	13.98	31553
1F5POOL	F5LN101	1997/3/21	3/11/2011	5103	13.98	31527
1F5POOL	F5LN102	1997/3/21	3/11/2011	5103	13.98	31551
1F5POOL	F5LN125	1997/3/21	3/11/2011	5103	13.98	30199
1F5POOL	F5N73	1999/12/8	3/11/2011	4111	11.26	36632
1F5POOL	F5MN117	1999/12/8	3/11/2011	4111	11.26	32565
1F5POOL	F5MN118	1999/12/8	3/11/2011	4111	11.26	32544
1F5POOL	F5MN133	1999/12/8	3/11/2011	4111	11.26	34253
1F5POOL	F5MN134	1999/12/8	3/11/2011	4111	11.26	34223
1F5POOL	F5MN135	1999/12/8	3/11/2011	4111	11.26	34250
1F5POOL	F5MN136	1999/12/8	3/11/2011	4111	11.26	34253
1F5POOL	F5MN137	1999/12/8	3/11/2011	4111	11.26	33106
1F5POOL	F5MN138	1999/12/8	3/11/2011	4111	11.26	33114
1F5POOL	F5MN139	1999/12/8	3/11/2011	4111	11.26	33110
1F5POOL	F5MN140	1999/12/8	3/11/2011	4111	11.26	33154
1F5POOL	F5N1	1999/12/8	3/11/2011	4111	11.26	40267
1F5POOL	F5N2	1999/12/8	3/11/2011	4111	11.26	39995
1F5POOL	F5N3	1999/12/8	3/11/2011	4111	11.26	40321
1F5POOL	F5N4	1999/12/8	3/11/2011	4111	11.26	39789
1F5POOL	F5N5	1999/12/8	3/11/2011	4111	11.26	38472
1F5POOL	F5N6	1999/12/8	3/11/2011	4111	11.26	38468
1F5POOL	F5N7	1999/12/8	3/11/2011	4111	11.26	38403
1F5POOL	F5N8	1999/12/8	3/11/2011	4111	11.26	38352
1F5POOL	F5N9	1999/12/8	3/11/2011	4111	11.26	39077
1F5POOL	F5N11	1999/12/8	3/11/2011	4111	11.26	39008
1F5POOL	F5N12	1999/12/8	3/11/2011	4111	11.26	39015
1F5POOL	F5N13	1999/12/8	3/11/2011	4111	11.26	37806
1F5POOL	F5N14	1999/12/8	3/11/2011	4111	11.26	37852
1F5POOL	F5N15	1999/12/8	3/11/2011	4111	11.26	37861
1F5POOL	F5N17	1999/12/8	3/11/2011	4111	11.26	37051
1F5POOL	F5N18	1999/12/8	3/11/2011	4111	11.26	36981
1F5POOL	F5N19	1999/12/8	3/11/2011	4111	11.26	37113
1F5POOL	F5N20	1999/12/8	3/11/2011	4111	11.26	36980
1F5POOL	F5N21	1999/12/8	3/11/2011	4111	11.26	36908
1F5POOL	F5N22	1999/12/8	3/11/2011	4111	11.26	36971
1F5POOL	F5N23	1999/12/8	3/11/2011	4111	11.26	36944
1F5POOL	F5N24	1999/12/8	3/11/2011	4111	11.26	36955
1F5POOL	F5N25	1999/12/8	3/11/2011	4111	11.26	36972
1F5POOL	F5N26	1999/12/8	3/11/2011	4111	11.26	36833
1F5POOL	F5N27	1999/12/8	3/11/2011	4111	11.26	36959
1F5POOL	F5N28	1999/12/8	3/11/2011	4111	11.26	36710
1F5POOL	F5N29	1999/12/8	3/11/2011	4111	11.26	36768
1F5POOL	F5N30	1999/12/8	3/11/2011	4111	11.26	36837

1F5POOL	F5N31	1999/12/8	3/11/2011	4111	11.26	36905
1F5POOL	F5N32	1999/12/8	3/11/2011	4111	11.26	36916
1F5POOL	F5N33	2001/11/10	3/11/2011	3408	9.34	39297
1F5POOL	F5N34	2001/11/10	3/11/2011	3408	9.34	39305
1F5POOL	F5N35	2001/11/10	3/11/2011	3408	9.34	39279
1F5POOL	F5N36	2001/11/10	3/11/2011	3408	9.34	39301
1F5POOL	F5N37	1999/12/8	3/11/2011	4111	11.26	36511
1F5POOL	F5N38	1999/12/8	3/11/2011	4111	11.26	36528
1F5POOL	F5N39	1999/12/8	3/11/2011	4111	11.26	36517
1F5POOL	F5N40	1999/12/8	3/11/2011	4111	11.26	36546
1F5POOL	F5N41	2001/11/10	3/11/2011	3408	9.34	40071
1F5POOL	F5N42	2001/11/10	3/11/2011	3408	9.34	40093
1F5POOL	F5N43	2001/11/10	3/11/2011	3408	9.34	40170
1F5POOL	F5N44	2001/11/10	3/11/2011	3408	9.34	40210
1F5POOL	F5N45	2001/11/10	3/11/2011	3408	9.34	40398
1F5POOL	F5N46	2001/11/10	3/11/2011	3408	9.34	40394
1F5POOL	F5N48	2001/11/10	3/11/2011	3408	9.34	40458
1F5POOL	F5N49	2001/11/10	3/11/2011	3408	9.34	37597
1F5POOL	F5N50	2001/11/10	3/11/2011	3408	9.34	37628
1F5POOL	F5N51	2001/11/10	3/11/2011	3408	9.34	37489
1F5POOL	F5N52	2001/11/10	3/11/2011	3408	9.34	37523
1F5POOL	F5N54	2001/11/10	3/11/2011	3408	9.34	38700
1F5POOL	F5N55	2001/11/10	3/11/2011	3408	9.34	38675
1F5POOL	F5N56	2001/11/10	3/11/2011	3408	9.34	38680
1F5POOL	F5N57	2001/11/10	3/11/2011	3408	9.34	38868
1F5POOL	F5N58	2001/11/10	3/11/2011	3408	9.34	38881
1F5POOL	F5N59	2001/11/10	3/11/2011	3408	9.34	38858
1F5POOL	F5N60	2001/11/10	3/11/2011	3408	9.34	38870
1F5POOL	F5N61	2001/11/10	3/11/2011	3408	9.34	38786
1F5POOL	F5N62	2001/11/10	3/11/2011	3408	9.34	38775
1F5POOL	F5N63	2001/11/10	3/11/2011	3408	9.34	38501
1F5POOL	F5N64	2001/11/10	3/11/2011	3408	9.34	38523
1F5POOL	F5N65	1999/12/8	3/11/2011	4111	11.26	39842
1F5POOL	F5N66	1999/12/8	3/11/2011	4111	11.26	39501
1F5POOL	F5N67	1999/12/8	3/11/2011	4111	11.26	39782
1F5POOL	F5N68	1999/12/8	3/11/2011	4111	11.26	39258
1F5POOL	F5N69	1999/12/8	3/11/2011	4111	11.26	36895
1F5POOL	F5N70	1999/12/8	3/11/2011	4111	11.26	36926
1F5POOL	F5N71	1999/12/8	3/11/2011	4111	11.26	36734
1F5POOL	F5P49	2003/2/11	3/11/2011	2950	8.08	41092
1F5POOL	F5R30	2003/2/11	3/11/2011	2950	8.08	40317
1F5POOL	F5R31	2003/2/11	3/11/2011	2950	8.08	40286
1F5POOL	F5P46	2003/2/11	3/11/2011	2950	8.08	38111
1F5POOL	F5P48	2003/2/11	3/11/2011	2950	8.08	41370
1F5POOL	F5R32	2003/2/11	3/11/2011	2950	8.08	40303
1F5POOL	F5P50	2003/2/11	3/11/2011	2950	8.08	41100
1F5POOL	F5PN1	2001/11/10	3/11/2011	3408	9.34	39271
1F5POOL	F5PN2	2001/11/10	3/11/2011	3408	9.34	39268
1F5POOL	F5PN3	2001/11/10	3/11/2011	3408	9.34	39273
1F5POOL	F5PN4	2001/11/10	3/11/2011	3408	9.34	39303
1F5POOL	F5PN5	2001/11/10	3/11/2011	3408	9.34	39257
1F5POOL	F5PN6	2001/11/10	3/11/2011	3408	9.34	39279
1F5POOL	F5PN7	2001/11/10	3/11/2011	3408	9.34	39165

1F5POOL	F5PN8	2001/11/10	3/11/2011	3408	9.34	39202
1F5POOL	F5PN9	2001/11/10	3/11/2011	3408	9.34	40053
1F5POOL	F5PN10	2001/11/10	3/11/2011	3408	9.34	40065
1F5POOL	F5PN11	2001/11/10	3/11/2011	3408	9.34	40000
1F5POOL	F5PN12	2001/11/10	3/11/2011	3408	9.34	40019
1F5POOL	F5PN13	2001/11/10	3/11/2011	3408	9.34	40040
1F5POOL	F5PN14	2001/11/10	3/11/2011	3408	9.34	40031
1F5POOL	F5PN15	2001/11/10	3/11/2011	3408	9.34	40077
1F5POOL	F5PN16	2001/11/10	3/11/2011	3408	9.34	40091
1F5POOL	F5PN17	1999/12/8	3/11/2011	4111	11.26	36556
1F5POOL	F5PN18	1999/12/8	3/11/2011	4111	11.26	36581
1F5POOL	F5PN19	1999/12/8	3/11/2011	4111	11.26	36562
1F5POOL	F5PN21	1999/12/8	3/11/2011	4111	11.26	36548
1F5POOL	F5PN22	1999/12/8	3/11/2011	4111	11.26	36577
1F5POOL	F5PN23	1999/12/8	3/11/2011	4111	11.26	36482
1F5POOL	F5PN24	1999/12/8	3/11/2011	4111	11.26	36519
1F5POOL	F5PN25	2001/11/10	3/11/2011	3408	9.34	38883
1F5POOL	F5PN27	2001/11/10	3/11/2011	3408	9.34	38996
1F5POOL	F5PN28	2001/11/10	3/11/2011	3408	9.34	39048
1F5POOL	F5PN29	2001/11/10	3/11/2011	3408	9.34	42531
1F5POOL	F5PN30	2001/11/10	3/11/2011	3408	9.34	42561
1F5POOL	F5PN31	2001/11/10	3/11/2011	3408	9.34	42379
1F5POOL	F5PN32	2001/11/10	3/11/2011	3408	9.34	42418
1F5POOL	F5PN33	2001/11/10	3/11/2011	3408	9.34	39000
1F5POOL	F5PN34	2001/11/10	3/11/2011	3408	9.34	39028
1F5POOL	F5PN35	2001/11/10	3/11/2011	3408	9.34	38872
1F5POOL	F5PN36	2001/11/10	3/11/2011	3408	9.34	38913
1F5POOL	F5PN37	2001/11/10	3/11/2011	3408	9.34	39764
1F5POOL	F5PN38	2001/11/10	3/11/2011	3408	9.34	39780
1F5POOL	F5PN39	2001/11/10	3/11/2011	3408	9.34	39837
1F5POOL	F5PN40	2001/11/10	3/11/2011	3408	9.34	39878
1F5POOL	F5PN41	2001/11/10	3/11/2011	3408	9.34	43383
1F5POOL	F5PN42	2001/11/10	3/11/2011	3408	9.34	43418
1F5POOL	F5PN43	2001/11/10	3/11/2011	3408	9.34	43307
1F5POOL	F5PN44	2001/11/10	3/11/2011	3408	9.34	43308
1F5POOL	F5PN45	2001/11/10	3/11/2011	3408	9.34	42681
1F5POOL	F5PN46	2001/11/10	3/11/2011	3408	9.34	42709
1F5POOL	F5PN47	2001/11/10	3/11/2011	3408	9.34	42801
1F5POOL	F5PN48	2001/11/10	3/11/2011	3408	9.34	42796
1F5POOL	F5PN49	2001/11/10	3/11/2011	3408	9.34	43288
1F5POOL	F5PN50	2001/11/10	3/11/2011	3408	9.34	43302
1F5POOL	F5PN51	2001/11/10	3/11/2011	3408	9.34	43367
1F5POOL	F5PN52	2001/11/10	3/11/2011	3408	9.34	43425
1F5POOL	F5PN54	2001/11/10	3/11/2011	3408	9.34	42884
1F5POOL	F5PN55	2001/11/10	3/11/2011	3408	9.34	42738
1F5POOL	F5PN56	2001/11/10	3/11/2011	3408	9.34	42769
1F5POOL	F5PN57	2001/11/10	3/11/2011	3408	9.34	38231
1F5POOL	F5PN58	2001/11/10	3/11/2011	3408	9.34	38233
1F5POOL	F5PN60	2001/11/10	3/11/2011	3408	9.34	38255
1F5POOL	F5PN61	2001/11/10	3/11/2011	3408	9.34	38372
1F5POOL	F5PN62	2001/11/10	3/11/2011	3408	9.34	38394
1F5POOL	F5PN63	2001/11/10	3/11/2011	3408	9.34	38660
1F5POOL	F5PN64	2001/11/10	3/11/2011	3408	9.34	38681

1F5POOL	F5PN65	2001/11/10	3/11/2011	3408	9.34	40880
1F5POOL	F5PN66	2001/11/10	3/11/2011	3408	9.34	40884
1F5POOL	F5PN67	2004/11/10	3/11/2011	2312	6.33	39975
1F5POOL	F5PN68	2004/11/10	3/11/2011	2312	6.33	39971
1F5POOL	F5R1	2003/2/11	3/11/2011	2950	8.08	43905
1F5POOL	F5R2	2003/2/11	3/11/2011	2950	8.08	43870
1F5POOL	F5R3	2003/2/11	3/11/2011	2950	8.08	43904
1F5POOL	F5R4	2003/2/11	3/11/2011	2950	8.08	43890
1F5POOL	F5R5	2003/2/11	3/11/2011	2950	8.08	43615
1F5POOL	F5R6	2003/2/11	3/11/2011	2950	8.08	43627
1F5POOL	F5R7	2003/2/11	3/11/2011	2950	8.08	43640
1F5POOL	F5R8	2003/2/11	3/11/2011	2950	8.08	43671
1F5POOL	F5R9	2003/2/11	3/11/2011	2950	8.08	42793
1F5POOL	F5R11	2003/2/11	3/11/2011	2950	8.08	42747
1F5POOL	F5R12	2003/2/11	3/11/2011	2950	8.08	42774
1F5POOL	F5R17	2003/2/11	3/11/2011	2950	8.08	43162
1F5POOL	F5R18	2003/2/11	3/11/2011	2950	8.08	43183
1F5POOL	F5R19	2003/2/11	3/11/2011	2950	8.08	43253
1F5POOL	F5R20	2003/2/11	3/11/2011	2950	8.08	43287
1F5POOL	F5R21	2003/2/11	3/11/2011	2950	8.08	43298
1F5POOL	F5R22	2003/2/11	3/11/2011	2950	8.08	43309
1F5POOL	F5R23	2003/2/11	3/11/2011	2950	8.08	43231
1F5POOL	F5R24	2003/2/11	3/11/2011	2950	8.08	43259
1F5POOL	F5R29	2003/2/11	3/11/2011	2950	8.08	40311
1F5POOL	F5M29	1999/12/8	3/11/2011	4111	11.26	32455
1F5POOL	F5R37	2004/11/10	3/11/2011	2312	6.33	41238
1F5POOL	F5R38	2004/11/10	3/11/2011	2312	6.33	41260
1F5POOL	F5R39	2004/11/10	3/11/2011	2312	6.33	40898
1F5POOL	F5R40	2004/11/10	3/11/2011	2312	6.33	40930
1F5POOL	F5R41	2003/2/11	3/11/2011	2950	8.08	39383
1F5POOL	F5R42	2003/2/11	3/11/2011	2950	8.08	39377
1F5POOL	F5R43	2003/2/11	3/11/2011	2950	8.08	39470
1F5POOL	F5R45	2003/2/11	3/11/2011	2950	8.08	42344
1F5POOL	F5R46	2003/2/11	3/11/2011	2950	8.08	42376
1F5POOL	F5R47	2003/2/11	3/11/2011	2950	8.08	42670
1F5POOL	F5R48	2003/2/11	3/11/2011	2950	8.08	42702
1F5POOL	F5R49	2003/2/11	3/11/2011	2950	8.08	43657
1F5POOL	F5R51	2003/2/11	3/11/2011	2950	8.08	43314
1F5POOL	F5R52	2003/2/11	3/11/2011	2950	8.08	43337
1F5POOL	F5R53	2003/2/11	3/11/2011	2950	8.08	43538
1F5POOL	F5R54	2003/2/11	3/11/2011	2950	8.08	43551
1F5POOL	F5R55	2003/2/11	3/11/2011	2950	8.08	43507
1F5POOL	F5R56	2003/2/11	3/11/2011	2950	8.08	43539
1F5POOL	F5R57	2004/11/10	3/11/2011	2312	6.33	40096
1F5POOL	F5R58	2004/11/10	3/11/2011	2312	6.33	40104
1F5POOL	F5R59	2004/11/10	3/11/2011	2312	6.33	39954
1F5POOL	F5R60	2004/11/10	3/11/2011	2312	6.33	39987
1F5POOL	F5R65	2003/2/11	3/11/2011	2950	8.08	40095
1F5POOL	F5R66	2003/2/11	3/11/2011	2950	8.08	40104
1F5POOL	F5R67	2003/2/11	3/11/2011	2950	8.08	39943
1F5POOL	F5R68	2003/2/11	3/11/2011	2950	8.08	39971
1F5POOL	F5R69	2003/2/11	3/11/2011	2950	8.08	43771
1F5POOL	F5R70	2003/2/11	3/11/2011	2950	8.08	43772

1F5POOL	F5R71	2003/2/11	3/11/2011	2950	8.08	43803
1F5POOL	F5R72	2003/2/11	3/11/2011	2950	8.08	43829
1F5POOL	F5R75	2003/2/11	3/11/2011	2950	8.08	45512
1F5POOL	F5R87	2003/2/11	3/11/2011	2950	8.08	37928
1F5POOL	F5R88	2003/2/11	3/11/2011	2950	8.08	37949
1F5POOL	F5R89	2006/7/31	3/11/2011	1684	4.61	43023
1F5POOL	F5R90	2006/7/31	3/11/2011	1684	4.61	43022
1F5POOL	F5R91	2006/7/31	3/11/2011	1684	4.61	42793
1F5POOL	F5R92	2006/7/31	3/11/2011	1684	4.61	42774
1F5POOL	F5R93	2006/7/31	3/11/2011	1684	4.61	40363
1F5POOL	F5R94	2006/7/31	3/11/2011	1684	4.61	40373
1F5POOL	F5R95	2006/7/31	3/11/2011	1684	4.61	40354
1F5POOL	F5R96	2006/7/31	3/11/2011	1684	4.61	40333
1F5POOL	F5R97	2006/7/31	3/11/2011	1684	4.61	41920
1F5POOL	F5R98	2006/7/31	3/11/2011	1684	4.61	41936
1F5POOL	F5R99	2006/7/31	3/11/2011	1684	4.61	41825
1F5POOL	F5R100	2006/7/31	3/11/2011	1684	4.61	41829
1F5POOL	F5R101	2004/11/10	3/11/2011	2312	6.33	44652
1F5POOL	F5R102	2004/11/10	3/11/2011	2312	6.33	44642
1F5POOL	F5R103	2004/11/10	3/11/2011	2312	6.33	44653
1F5POOL	F5R104	2004/11/10	3/11/2011	2312	6.33	44632
1F5POOL	F5R105	2004/11/10	3/11/2011	2312	6.33	44235
1F5POOL	F5R107	2004/11/10	3/11/2011	2312	6.33	44220
1F5POOL	F5R108	2004/11/10	3/11/2011	2312	6.33	44224
1F5POOL	F5R109	2004/11/10	3/11/2011	2312	6.33	43498
1F5POOL	F5R110	2004/11/10	3/11/2011	2312	6.33	43524
1F5POOL	F5R111	2004/11/10	3/11/2011	2312	6.33	43275
1F5POOL	F5R117	2004/11/10	3/11/2011	2312	6.33	41841
1F5POOL	F5R118	2004/11/10	3/11/2011	2312	6.33	41857
1F5POOL	F5R119	2004/11/10	3/11/2011	2312	6.33	42234
1F5POOL	F5R120	2004/11/10	3/11/2011	2312	6.33	42253
1F5POOL	F5R121	2003/2/11	3/11/2011	2950	8.08	41203
1F5POOL	F5R122	2003/2/11	3/11/2011	2950	8.08	41219
1F5POOL	F5R123	2003/2/11	3/11/2011	2950	8.08	41209
1F5POOL	F5R124	2003/2/11	3/11/2011	2950	8.08	41239
1F5POOL	F5R125	2003/2/11	3/11/2011	2950	8.08	43849
1F5POOL	F5R126	2003/2/11	3/11/2011	2950	8.08	43876
1F5POOL	F5R127	2003/2/11	3/11/2011	2950	8.08	43973
1F5POOL	F5R128	2003/2/11	3/11/2011	2950	8.08	44012
1F5POOL	F5R129	2003/2/11	3/11/2011	2950	8.08	44815
1F5POOL	F5R130	2003/2/11	3/11/2011	2950	8.08	44814
1F5POOL	F5R131	2003/2/11	3/11/2011	2950	8.08	44863
1F5POOL	F5R132	2003/2/11	3/11/2011	2950	8.08	44865
1F5POOL	F5R133	2003/2/11	3/11/2011	2950	8.08	43681
1F5POOL	F5R134	2003/2/11	3/11/2011	2950	8.08	43683
1F5POOL	F5R135	2003/2/11	3/11/2011	2950	8.08	43538
1F5POOL	F5R136	2003/2/11	3/11/2011	2950	8.08	43546
1F5POOL	F5M30	1999/12/8	3/11/2011	4111	11.26	32477
1F5POOL	F5M31	1999/12/8	3/11/2011	4111	11.26	32413
1F5POOL	F5M32	1999/12/8	3/11/2011	4111	11.26	32353
1F5POOL	F5MN84	1994/3/8	3/11/2011	6212	17.02	5338
1F5POOL	F5N74	1999/12/8	3/11/2011	4111	11.26	36632
1F5POOL	F5S112	2004/11/10	3/11/2011	2312	6.33	39401

1F5POOL	F5S2	2004/11/10	3/11/2011	2312	6.33	42310
1F5POOL	F5N72	1999/12/8	3/11/2011	4111	11.26	36766
1F5POOL	F5N75	1999/12/8	3/11/2011	4111	11.26	36662
1F5POOL	F5N76	1999/12/8	3/11/2011	4111	11.26	36629
1F5POOL	F5N77	1999/12/8	3/11/2011	4111	11.26	40780
1F5POOL	F5N78	1999/12/8	3/11/2011	4111	11.26	40755
1F5POOL	F5N80	1999/12/8	3/11/2011	4111	11.26	40717
1F5POOL	F5N81	2001/11/10	3/11/2011	3408	9.34	40430
1F5POOL	F5N82	2001/11/10	3/11/2011	3408	9.34	40457
1F5POOL	F5N83	2001/11/10	3/11/2011	3408	9.34	40013
1F5POOL	F5N84	2001/11/10	3/11/2011	3408	9.34	40020
1F5POOL	F5N86	2003/2/11	3/11/2011	2950	8.08	40436
1F5POOL	F5N87	2003/2/11	3/11/2011	2950	8.08	40882
1F5POOL	F5N88	2003/2/11	3/11/2011	2950	8.08	40889
1F5POOL	F5N89	2001/11/10	3/11/2011	3408	9.34	38483
1F5POOL	F5N90	2001/11/10	3/11/2011	3408	9.34	38502
1F5POOL	F5N91	2001/11/10	3/11/2011	3408	9.34	38424
1F5POOL	F5N92	2001/11/10	3/11/2011	3408	9.34	38437
1F5POOL	F5N93	2001/11/10	3/11/2011	3408	9.34	42846
1F5POOL	F5N94	2001/11/10	3/11/2011	3408	9.34	42845
1F5POOL	F5N95	2001/11/10	3/11/2011	3408	9.34	42893
1F5POOL	F5N96	2001/11/10	3/11/2011	3408	9.34	42865
1F5POOL	F5NN1	1999/12/8	3/11/2011	4111	11.26	36480
1F5POOL	F5NN2	1999/12/8	3/11/2011	4111	11.26	36493
1F5POOL	F5NN3	1999/12/8	3/11/2011	4111	11.26	36457
1F5POOL	F5NN4	1999/12/8	3/11/2011	4111	11.26	36498
1F5POOL	F5NN5	1999/12/8	3/11/2011	4111	11.26	38680
1F5POOL	F5NN6	1999/12/8	3/11/2011	4111	11.26	38694
1F5POOL	F5NN7	1999/12/8	3/11/2011	4111	11.26	38737
1F5POOL	F5NN8	1999/12/8	3/11/2011	4111	11.26	38781
1F5POOL	F5NN9	1999/12/8	3/11/2011	4111	11.26	38622
1F5POOL	F5NN10	1999/12/8	3/11/2011	4111	11.26	38563
1F5POOL	F5NN11	1999/12/8	3/11/2011	4111	11.26	38594
1F5POOL	F5NN12	1999/12/8	3/11/2011	4111	11.26	38518
1F5POOL	F5NN13	1999/12/8	3/11/2011	4111	11.26	36563
1F5POOL	F5NN14	1999/12/8	3/11/2011	4111	11.26	36577
1F5POOL	F5NN16	1999/12/8	3/11/2011	4111	11.26	36569
1F5POOL	F5NN17	1999/12/8	3/11/2011	4111	11.26	37845
1F5POOL	F5NN18	1999/12/8	3/11/2011	4111	11.26	37684
1F5POOL	F5NN19	1999/12/8	3/11/2011	4111	11.26	37820
1F5POOL	F5NN20	1999/12/8	3/11/2011	4111	11.26	37613
1F5POOL	F5NN22	1999/12/8	3/11/2011	4111	11.26	37109
1F5POOL	F5NN23	1999/12/8	3/11/2011	4111	11.26	37089
1F5POOL	F5NN24	1999/12/8	3/11/2011	4111	11.26	37099
1F5POOL	F5NN25	1999/12/8	3/11/2011	4111	11.26	38686
1F5POOL	F5NN26	1999/12/8	3/11/2011	4111	11.26	38574
1F5POOL	F5NN27	1999/12/8	3/11/2011	4111	11.26	38772
1F5POOL	F5NN28	1999/12/8	3/11/2011	4111	11.26	38511
1F5POOL	F5NN29	1999/12/8	3/11/2011	4111	11.26	38511
1F5POOL	F5NN30	1999/12/8	3/11/2011	4111	11.26	38549
1F5POOL	F5NN31	1999/12/8	3/11/2011	4111	11.26	38506
1F5POOL	F5NN32	1999/12/8	3/11/2011	4111	11.26	38490
1F5POOL	F5NN33	1999/12/8	3/11/2011	4111	11.26	37703

1F5POOL	F5NN34	1999/12/8	3/11/2011	4111	11.26	37715
1F5POOL	F5NN35	1999/12/8	3/11/2011	4111	11.26	37742
1F5POOL	F5NN36	1999/12/8	3/11/2011	4111	11.26	37648
1F5POOL	F5NN37	1999/12/8	3/11/2011	4111	11.26	38717
1F5POOL	F5NN38	1999/12/8	3/11/2011	4111	11.26	38783
1F5POOL	F5NN39	1999/12/8	3/11/2011	4111	11.26	38736
1F5POOL	F5NN40	1999/12/8	3/11/2011	4111	11.26	38687
1F5POOL	F5P1	2001/11/10	3/11/2011	3408	9.34	40851
1F5POOL	F5P2	2001/11/10	3/11/2011	3408	9.34	40832
1F5POOL	F5P3	2001/11/10	3/11/2011	3408	9.34	38463
1F5POOL	F5P4	2001/11/10	3/11/2011	3408	9.34	38488
1F5POOL	F5P5	2001/11/10	3/11/2011	3408	9.34	38294
1F5POOL	F5P6	2001/11/10	3/11/2011	3408	9.34	38330
1F5POOL	F5P8	2001/11/10	3/11/2011	3408	9.34	38206
1F5POOL	F5P9	2001/11/10	3/11/2011	3408	9.34	38317
1F5POOL	F5P10	2001/11/10	3/11/2011	3408	9.34	38321
1F5POOL	F5P11	2001/11/10	3/11/2011	3408	9.34	41233
1F5POOL	F5P12	2001/11/10	3/11/2011	3408	9.34	41271
1F5POOL	F5P14	2001/11/10	3/11/2011	3408	9.34	41236
1F5POOL	F5P15	2001/11/10	3/11/2011	3408	9.34	41287
1F5POOL	F5P16	2001/11/10	3/11/2011	3408	9.34	41302
1F5POOL	F5P17	2001/11/10	3/11/2011	3408	9.34	41270
1F5POOL	F5P18	2001/11/10	3/11/2011	3408	9.34	41269
1F5POOL	F5P19	2001/11/10	3/11/2011	3408	9.34	41589
1F5POOL	F5P20	2001/11/10	3/11/2011	3408	9.34	41609
1F5POOL	F5P21	2001/11/10	3/11/2011	3408	9.34	41567
1F5POOL	F5P22	2001/11/10	3/11/2011	3408	9.34	41528
1F5POOL	F5P23	2001/11/10	3/11/2011	3408	9.34	38329
1F5POOL	F5P24	2001/11/10	3/11/2011	3408	9.34	38340
1F5POOL	F5P25	2001/11/10	3/11/2011	3408	9.34	38479
1F5POOL	F5P26	2001/11/10	3/11/2011	3408	9.34	38524
1F5POOL	F5P27	2001/11/10	3/11/2011	3408	9.34	38802
1F5POOL	F5P28	2001/11/10	3/11/2011	3408	9.34	38817
1F5POOL	F5P29	2001/11/10	3/11/2011	3408	9.34	38632
1F5POOL	F5P30	2001/11/10	3/11/2011	3408	9.34	38668
1F5POOL	F5P31	2003/2/11	3/11/2011	2950	8.08	39155
1F5POOL	F5P32	2003/2/11	3/11/2011	2950	8.08	39136
1F5POOL	F5P33	2003/2/11	3/11/2011	2950	8.08	39189
1F5POOL	F5P34	2003/2/11	3/11/2011	2950	8.08	39169
1F5POOL	F5P35	2003/2/11	3/11/2011	2950	8.08	39781
1F5POOL	F5P36	2003/2/11	3/11/2011	2950	8.08	39770
1F5POOL	F5P37	2003/2/11	3/11/2011	2950	8.08	39715
1F5POOL	F5P38	2003/2/11	3/11/2011	2950	8.08	39728
1F5POOL	F5P39	2003/2/11	3/11/2011	2950	8.08	39973
1F5POOL	F5P40	2003/2/11	3/11/2011	2950	8.08	40010
1F5POOL	F5P42	2003/2/11	3/11/2011	2950	8.08	39963
1F5POOL	F5P43	2003/2/11	3/11/2011	2950	8.08	38103
1F5POOL	F5P44	2003/2/11	3/11/2011	2950	8.08	38102
1F5POOL	F5P45	2003/2/11	3/11/2011	2950	8.08	38065
1F5POOL	F5S4	2004/11/10	3/11/2011	2312	6.33	41807
1F5POOL	F5S5	2004/11/10	3/11/2011	2312	6.33	43997
1F5POOL	F5S6	2004/11/10	3/11/2011	2312	6.33	43996
1F5POOL	F5S7	2004/11/10	3/11/2011	2312	6.33	43976

1F5POOL	F5S9	2004/11/10	3/11/2011	2312	6.33	43329
1F5POOL	F5S10	2004/11/10	3/11/2011	2312	6.33	43323
1F5POOL	F5S11	2004/11/10	3/11/2011	2312	6.33	43473
1F5POOL	F5S12	2004/11/10	3/11/2011	2312	6.33	43459
1F5POOL	F5S13	2004/11/10	3/11/2011	2312	6.33	42818
1F5POOL	F5S14	2004/11/10	3/11/2011	2312	6.33	42811
1F5POOL	F5S15	2004/11/10	3/11/2011	2312	6.33	42824
1F5POOL	F5S16	2004/11/10	3/11/2011	2312	6.33	42825
1F5POOL	F5S17	2006/7/31	3/11/2011	1684	4.61	39739
1F5POOL	F5S18	2006/7/31	3/11/2011	1684	4.61	39716
1F5POOL	F5S19	2006/7/31	3/11/2011	1684	4.61	39885
1F5POOL	F5S20	2006/7/31	3/11/2011	1684	4.61	39870
1F5POOL	F5S21	2004/11/10	3/11/2011	2312	6.33	40969
1F5POOL	F5S22	2004/11/10	3/11/2011	2312	6.33	40967
1F5POOL	F5S23	2004/11/10	3/11/2011	2312	6.33	41024
1F5POOL	F5S24	2004/11/10	3/11/2011	2312	6.33	41018
1F5POOL	F5S25	2004/11/10	3/11/2011	2312	6.33	42320
1F5POOL	F5S26	2004/11/10	3/11/2011	2312	6.33	42323
1F5POOL	F5S27	2004/11/10	3/11/2011	2312	6.33	42356
1F5POOL	F5S28	2004/11/10	3/11/2011	2312	6.33	42360
1F5POOL	F5S29	2004/11/10	3/11/2011	2312	6.33	42322
1F5POOL	F5S30	2004/11/10	3/11/2011	2312	6.33	42310
1F5POOL	F5S31	2004/11/10	3/11/2011	2312	6.33	42159
1F5POOL	F5S32	2004/11/10	3/11/2011	2312	6.33	42146
1F5POOL	F5S33	2004/11/10	3/11/2011	2312	6.33	40108
1F5POOL	F5S34	2004/11/10	3/11/2011	2312	6.33	40102
1F5POOL	F5S37	2004/11/10	3/11/2011	2312	6.33	43823
1F5POOL	F5S38	2004/11/10	3/11/2011	2312	6.33	43827
1F5POOL	F5S39	2004/11/10	3/11/2011	2312	6.33	43722
1F5POOL	F5S40	2004/11/10	3/11/2011	2312	6.33	43722
1F5POOL	F5S41	2006/7/31	3/11/2011	1684	4.61	42657
1F5POOL	F5S43	2006/7/31	3/11/2011	1684	4.61	42902
1F5POOL	F5S44	2006/7/31	3/11/2011	1684	4.61	42894
1F5POOL	F5S45	2006/7/31	3/11/2011	1684	4.61	42069
1F5POOL	F5S46	2006/7/31	3/11/2011	1684	4.61	42064
1F5POOL	F5S47	2006/7/31	3/11/2011	1684	4.61	42098
1F5POOL	F5S48	2006/7/31	3/11/2011	1684	4.61	42103
1F5POOL	F5S49	2004/11/10	3/11/2011	2312	6.33	43393
1F5POOL	F5S50	2004/11/10	3/11/2011	2312	6.33	43388
1F5POOL	F5S51	2004/11/10	3/11/2011	2312	6.33	43612
1F5POOL	F5S52	2004/11/10	3/11/2011	2312	6.33	43622
1F5POOL	F5S53	2004/11/10	3/11/2011	2312	6.33	39112
1F5POOL	F5S54	2004/11/10	3/11/2011	2312	6.33	39102
1F5POOL	F5S55	2004/11/10	3/11/2011	2312	6.33	39061
1F5POOL	F5S56	2004/11/10	3/11/2011	2312	6.33	39053
1F5POOL	F5S57	2004/11/10	3/11/2011	2312	6.33	42570
1F5POOL	F5S58	2004/11/10	3/11/2011	2312	6.33	42558
1F5POOL	F5S59	2004/11/10	3/11/2011	2312	6.33	42573
1F5POOL	F5S60	2004/11/10	3/11/2011	2312	6.33	42577
1F5POOL	F5S61	2006/7/31	3/11/2011	1684	4.61	40279
1F5POOL	F5S62	2006/7/31	3/11/2011	1684	4.61	40273
1F5POOL	F5S63	2006/7/31	3/11/2011	1684	4.61	40174
1F5POOL	F5S64	2006/7/31	3/11/2011	1684	4.61	40152

1F5POOL	F5S65	2004/11/10	3/11/2011	2312	6.33	38931
1F5POOL	F5S66	2004/11/10	3/11/2011	2312	6.33	38932
1F5POOL	F5S67	2006/7/31	3/11/2011	1684	4.61	43002
1F5POOL	F5S69	2004/11/10	3/11/2011	2312	6.33	42580
1F5POOL	F5S70	2004/11/10	3/11/2011	2312	6.33	42579
1F5POOL	F5S71	2004/11/10	3/11/2011	2312	6.33	42713
1F5POOL	F5S72	2004/11/10	3/11/2011	2312	6.33	42712
1F5POOL	F5S73	2006/7/31	3/11/2011	1684	4.61	40265
1F5POOL	F5S75	2006/7/31	3/11/2011	1684	4.61	40393
1F5POOL	F5S76	2006/7/31	3/11/2011	1684	4.61	40381
1F5POOL	F5S77	2006/7/31	3/11/2011	1684	4.61	42216
1F5POOL	F5S78	2006/7/31	3/11/2011	1684	4.61	42217
1F5POOL	F5S79	2006/7/31	3/11/2011	1684	4.61	42224
1F5POOL	F5S80	2006/7/31	3/11/2011	1684	4.61	42216
1F5POOL	F5S81	2006/7/31	3/11/2011	1684	4.61	39390
1F5POOL	F5S82	2006/7/31	3/11/2011	1684	4.61	39388
1F5POOL	F5S83	2006/7/31	3/11/2011	1684	4.61	39385
1F5POOL	F5S84	2006/7/31	3/11/2011	1684	4.61	39381
1F5POOL	F5S85	2004/11/10	3/11/2011	2312	6.33	38910
1F5POOL	F5S86	2004/11/10	3/11/2011	2312	6.33	38913
1F5POOL	F5S87	2004/11/10	3/11/2011	2312	6.33	39028
1F5POOL	F5S88	2004/11/10	3/11/2011	2312	6.33	39021
1F5POOL	F5S89	2004/11/10	3/11/2011	2312	6.33	39726
1F5POOL	F5S90	2004/11/10	3/11/2011	2312	6.33	39728
1F5POOL	F5S91	2004/11/10	3/11/2011	2312	6.33	39773
1F5POOL	F5S92	2004/11/10	3/11/2011	2312	6.33	39757
1F5POOL	F5S93	2004/11/10	3/11/2011	2312	6.33	41491
1F5POOL	F5S94	2004/11/10	3/11/2011	2312	6.33	41483
1F5POOL	F5S95	2004/11/10	3/11/2011	2312	6.33	41481
1F5POOL	F5S96	2004/11/10	3/11/2011	2312	6.33	41480
1F5POOL	F5S97	2004/11/10	3/11/2011	2312	6.33	39208
1F5POOL	F5S98	2004/11/10	3/11/2011	2312	6.33	39189
1F5POOL	F5S100	2004/11/10	3/11/2011	2312	6.33	39228
1F5POOL	F5S101	2004/11/10	3/11/2011	2312	6.33	43101
1F5POOL	F5S102	2004/11/10	3/11/2011	2312	6.33	43098
1F5POOL	F5S103	2004/11/10	3/11/2011	2312	6.33	42956
1F5POOL	F5S104	2004/11/10	3/11/2011	2312	6.33	42973
1F5POOL	F5S106	2004/11/10	3/11/2011	2312	6.33	39564
1F5POOL	F5S107	2004/11/10	3/11/2011	2312	6.33	39559
1F5POOL	F5S108	2004/11/10	3/11/2011	2312	6.33	39551
1F5POOL	F5S109	2006/7/31	3/11/2011	1684	4.61	42943
1F5POOL	F5S110	2006/7/31	3/11/2011	1684	4.61	42939
1F5POOL	F5L33	1997/3/21	3/11/2011	5103	13.98	30195
1F5POOL	F5LN17	1997/3/21	3/11/2011	5103	13.98	31854
1F5POOL	F5LN59	1997/3/21	3/11/2011	5103	13.98	31811
1F5POOL	F5S1	2004/11/10	3/11/2011	2312	6.33	42307
1F5POOL	F5S113	2004/11/10	3/11/2011	2312	6.33	39293
1F5POOL	F5S114	2004/11/10	3/11/2011	2312	6.33	39288
1F5POOL	F5S115	2004/11/10	3/11/2011	2312	6.33	39272
1F5POOL	F5S116	2004/11/10	3/11/2011	2312	6.33	39258
1F5POOL	F5S117	2004/11/10	3/11/2011	2312	6.33	42824
1F5POOL	F5S118	2004/11/10	3/11/2011	2312	6.33	42819
1F5POOL	F5S119	2004/11/10	3/11/2011	2312	6.33	42848

1F5POOL	F5S120	2004/11/10	3/11/2011	2312	6.33	42843
1F5POOL	F5S121	2006/7/31	3/11/2011	1684	4.61	40607
1F5POOL	F5S122	2006/7/31	3/11/2011	1684	4.61	40602
1F5POOL	F5S123	2006/7/31	3/11/2011	1684	4.61	40624
1F5POOL	F5S124	2006/7/31	3/11/2011	1684	4.61	40629
1F5POOL	F5S125	2004/11/10	3/11/2011	2312	6.33	43848
1F5POOL	F5S126	2004/11/10	3/11/2011	2312	6.33	43849
1F5POOL	F5S127	2004/11/10	3/11/2011	2312	6.33	43776
1F5POOL	F5S128	2004/11/10	3/11/2011	2312	6.33	43770
1F5POOL	F5S129	2004/11/10	3/11/2011	2312	6.33	44026
1F5POOL	F5S131	2004/11/10	3/11/2011	2312	6.33	44086
1F5POOL	F5S132	2004/11/10	3/11/2011	2312	6.33	44080
1F5POOL	F5S111	2004/11/10	3/11/2011	2312	6.33	39416
1F5POOL	F5TS53	2008/1/20	3/11/2011	1146	3.14	44953
1F5POOL	F5TS54	2008/1/20	3/11/2011	1146	3.14	44939
1F5POOL	F5TS55	2008/1/20	3/11/2011	1146	3.14	44740
1F5POOL	F5TS57	2008/1/20	3/11/2011	1146	3.14	44669
1F5POOL	F5TS61	2006/7/31	3/11/2011	1684	4.61	46183
1F5POOL	F5TS58	2008/1/20	3/11/2011	1146	3.14	44661
1F5POOL	F5TS60	2008/1/20	3/11/2011	1146	3.14	44957
1F5POOL	F5TS62	2006/7/31	3/11/2011	1684	4.61	46193
1F5POOL	F5TS65	2009/9/1	3/11/2011	556	1.52	44109
1F5POOL	F5TS66	2009/9/1	3/11/2011	556	1.52	44109
1F5POOL	F5TS67	2009/9/1	3/11/2011	556	1.52	44351
1F5POOL	F5TS69	2008/1/20	3/11/2011	1146	3.14	42637
1F5POOL	F5TS70	2008/1/20	3/11/2011	1146	3.14	42626
1F5POOL	F5TS71	2008/1/20	3/11/2011	1146	3.14	42611
1F5POOL	F5TS72	2008/1/20	3/11/2011	1146	3.14	42615
1F5POOL	F5TS73	2008/1/20	3/11/2011	1146	3.14	44993
1F5POOL	F5TS74	2008/1/20	3/11/2011	1146	3.14	44999
1F5POOL	F5TS75	2008/1/20	3/11/2011	1146	3.14	45266
1F5POOL	F5TS76	2008/1/20	3/11/2011	1146	3.14	45266
1F5POOL	F5TS77	2008/1/20	3/11/2011	1146	3.14	45577
1F5POOL	F5TS78	2008/1/20	3/11/2011	1146	3.14	45589
1F5POOL	F5TS79	2008/1/20	3/11/2011	1146	3.14	45585
1F5POOL	F5TS80	2008/1/20	3/11/2011	1146	3.14	45582
1F5POOL	F5TS81	2008/1/20	3/11/2011	1146	3.14	44623
1F5POOL	F5TS82	2008/1/20	3/11/2011	1146	3.14	44623
1F5POOL	F5TS83	2008/1/20	3/11/2011	1146	3.14	44686
1F5POOL	F5TS84	2008/1/20	3/11/2011	1146	3.14	44663
1F5POOL	F5TS85	2008/1/20	3/11/2011	1146	3.14	44674
1F5POOL	F5TS86	2008/1/20	3/11/2011	1146	3.14	44664
1F5POOL	F5TS87	2008/1/20	3/11/2011	1146	3.14	44650
1F5POOL	F5TS88	2008/1/20	3/11/2011	1146	3.14	44640
1F5POOL	F5TS89	2008/1/20	3/11/2011	1146	3.14	44327
1F5POOL	F5TS90	2008/1/20	3/11/2011	1146	3.14	44325
1F5POOL	F5TS91	2008/1/20	3/11/2011	1146	3.14	44489
1F5POOL	F5TS92	2008/1/20	3/11/2011	1146	3.14	44494
1F5POOL	F5TS94	2009/9/1	3/11/2011	556	1.52	46167
1F5POOL	F5TS95	2009/9/1	3/11/2011	556	1.52	46281
1F5POOL	F5TS96	2009/9/1	3/11/2011	556	1.52	46287
1F5POOL	F5TS97	2009/9/1	3/11/2011	556	1.52	43347
1F5POOL	F5TS99	2009/9/1	3/11/2011	556	1.52	43436

1F5POOL	F5TS100	2009/9/1	3/11/2011	556	1.52	43449
1F5POOL	F5TS32	2008/1/20	3/11/2011	1146	3.14	44137
1F5POOL	F5TS59	2008/1/20	3/11/2011	1146	3.14	44945
1F5POOL	F5TS64	2006/7/31	3/11/2011	1684	4.61	46179
1F5POOL	F5TS68	2009/9/1	3/11/2011	556	1.52	44353
1F5POOL	F5TS8	2008/1/20	3/11/2011	1146	3.14	41629
1F5POOL	F5TN1	2008/1/20	3/11/2011	1146	3.14	44326
1F5POOL	F5TN2	2008/1/20	3/11/2011	1146	3.14	44338
1F5POOL	F5TN3	2008/1/20	3/11/2011	1146	3.14	44346
1F5POOL	F5TN4	2008/1/20	3/11/2011	1146	3.14	44327
1F5POOL	F5TN5	2006/7/31	3/11/2011	1684	4.61	46749
1F5POOL	F5TN6	2006/7/31	3/11/2011	1684	4.61	46752
1F5POOL	F5TN7	2006/7/31	3/11/2011	1684	4.61	46804
1F5POOL	F5TN8	2006/7/31	3/11/2011	1684	4.61	46810
1F5POOL	F5TN9	2006/7/31	3/11/2011	1684	4.61	47413
1F5POOL	F5TN10	2006/7/31	3/11/2011	1684	4.61	47411
1F5POOL	F5TN11	2006/7/31	3/11/2011	1684	4.61	47474
1F5POOL	F5TN12	2006/7/31	3/11/2011	1684	4.61	47457
1F5POOL	F5TN13	2006/7/31	3/11/2011	1684	4.61	44372
1F5POOL	F5TN14	2006/7/31	3/11/2011	1684	4.61	44355
1F5POOL	F5TN15	2006/7/31	3/11/2011	1684	4.61	44312
1F5POOL	F5TN16	2006/7/31	3/11/2011	1684	4.61	44317
1F5POOL	F5TN17	2008/1/20	3/11/2011	1146	3.14	44522
1F5POOL	F5TN18	2008/1/20	3/11/2011	1146	3.14	44514
1F5POOL	F5TN19	2008/1/20	3/11/2011	1146	3.14	44514
1F5POOL	F5TN20	2008/1/20	3/11/2011	1146	3.14	44524
1F5POOL	F5TN21	2008/1/20	3/11/2011	1146	3.14	43618
1F5POOL	F5TN22	2008/1/20	3/11/2011	1146	3.14	43633
1F5POOL	F5TN23	2008/1/20	3/11/2011	1146	3.14	43392
1F5POOL	F5TN24	2008/1/20	3/11/2011	1146	3.14	43376
1F5POOL	F5TN25	2006/7/31	3/11/2011	1684	4.61	46142
1F5POOL	F5TN26	2006/7/31	3/11/2011	1684	4.61	46120
1F5POOL	F5TN27	2006/7/31	3/11/2011	1684	4.61	46165
1F5POOL	F5TN29	2006/7/31	3/11/2011	1684	4.61	43522
1F5POOL	F5TN30	2006/7/31	3/11/2011	1684	4.61	43529
1F5POOL	F5TN31	2006/7/31	3/11/2011	1684	4.61	43707
1F5POOL	F5TN32	2006/7/31	3/11/2011	1684	4.61	43671
1F5POOL	F5TN33	2006/7/31	3/11/2011	1684	4.61	48416
1F5POOL	F5TN34	2006/7/31	3/11/2011	1684	4.61	48403
1F5POOL	F5TN35	2006/7/31	3/11/2011	1684	4.61	48459
1F5POOL	F5TN36	2006/7/31	3/11/2011	1684	4.61	48444
1F5POOL	F5TN37	2006/7/31	3/11/2011	1684	4.61	45025
1F5POOL	F5TN38	2006/7/31	3/11/2011	1684	4.61	45012
1F5POOL	F5TN39	2006/7/31	3/11/2011	1684	4.61	44996
1F5POOL	F5TN40	2006/7/31	3/11/2011	1684	4.61	44993
1F5POOL	F5TN41	2006/7/31	3/11/2011	1684	4.61	44203
1F5POOL	F5TN42	2006/7/31	3/11/2011	1684	4.61	44189
1F5POOL	F5TN43	2006/7/31	3/11/2011	1684	4.61	44252
1F5POOL	F5TN44	2006/7/31	3/11/2011	1684	4.61	44249
1F5POOL	F5N10	1999/12/8	3/11/2011	4111	11.26	39122
1F5POOL	F5N16	1999/12/8	3/11/2011	4111	11.26	37889
1F5POOL	F5N47	2001/11/10	3/11/2011	3408	9.34	40443
1F5POOL	F5N53	2001/11/10	3/11/2011	3408	9.34	38694

1F5POOL	F5N79	1999/12/8	3/11/2011	4111	11.26	40763
1F5POOL	F5N85	2003/2/11	3/11/2011	2950	8.08	40421
1F5POOL	F5NN15	1999/12/8	3/11/2011	4111	11.26	36582
1F5POOL	F5NN21	1999/12/8	3/11/2011	4111	11.26	37078
1F5POOL	F5P7	2001/11/10	3/11/2011	3408	9.34	38155
1F5POOL	F5P13	2001/11/10	3/11/2011	3408	9.34	41258
1F5POOL	F5P41	2003/2/11	3/11/2011	2950	8.08	39968
1F5POOL	F5P47	2003/2/11	3/11/2011	2950	8.08	41375
1F5POOL	F5PN20	1999/12/8	3/11/2011	4111	11.26	36623
1F5POOL	F5PN26	2001/11/10	3/11/2011	3408	9.34	38903
1F5POOL	F5PN53	2001/11/10	3/11/2011	3408	9.34	42871
1F5POOL	F5PN59	2001/11/10	3/11/2011	3408	9.34	38206
1F5POOL	F5R10	2003/2/11	3/11/2011	2950	8.08	42810
1F5POOL	F5R44	2003/2/11	3/11/2011	2950	8.08	39487
1F5POOL	F5R50	2003/2/11	3/11/2011	2950	8.08	43642
1F5POOL	F5R106	2004/11/10	3/11/2011	2312	6.33	44228
1F5POOL	F5R112	2004/11/10	3/11/2011	2312	6.33	43249
1F5POOL	F5S3	2004/11/10	3/11/2011	2312	6.33	41830
1F5POOL	F5S8	2004/11/10	3/11/2011	2312	6.33	43946
1F5POOL	F5S42	2006/7/31	3/11/2011	1684	4.61	42653
1F5POOL	F5S68	2006/7/31	3/11/2011	1684	4.61	42999
1F5POOL	F5S74	2006/7/31	3/11/2011	1684	4.61	40253
1F5POOL	F5S99	2004/11/10	3/11/2011	2312	6.33	39241
1F5POOL	F5S105	2004/11/10	3/11/2011	2312	6.33	39556
1F5POOL	F5S130	2004/11/10	3/11/2011	2312	6.33	44028
1F5POOL	F5TS17	2006/7/31	3/11/2011	1684	4.61	43337
1F5POOL	F5TS23	2006/7/31	3/11/2011	1684	4.61	43825
1F5POOL	F5TS28	2008/1/20	3/11/2011	1146	3.14	43030
1F5POOL	F5TS56	2008/1/20	3/11/2011	1146	3.14	44718
1F5POOL	F5TS63	2006/7/31	3/11/2011	1684	4.61	46173
1F5POOL	F5TS93	2009/9/1	3/11/2011	556	1.52	46148
1F5POOL	F5TS98	2009/9/1	3/11/2011	556	1.52	43347
1F5POOL	F5TN28	2006/7/31	3/11/2011	1684	4.61	46152
1F5POOL	F5TS1	2006/7/31	3/11/2011	1684	4.61	46184
1F5POOL	F5TS2	2006/7/31	3/11/2011	1684	4.61	46175
1F5POOL	F5TS3	2006/7/31	3/11/2011	1684	4.61	46150
1F5POOL	F5TS4	2006/7/31	3/11/2011	1684	4.61	46153
1F5POOL	F5TS5	2009/9/1	3/11/2011	556	1.52	45581
1F5POOL	F5TS6	2009/9/1	3/11/2011	556	1.52	45577
1F5POOL	F5TS7	2008/1/20	3/11/2011	1146	3.14	41631
1F5POOL	F5TS9	2006/7/31	3/11/2011	1684	4.61	45605
1F5POOL	F5TS10	2006/7/31	3/11/2011	1684	4.61	45610
1F5POOL	F5TS11	2006/7/31	3/11/2011	1684	4.61	45441
1F5POOL	F5TS12	2006/7/31	3/11/2011	1684	4.61	45442
1F5POOL	F5TS13	2008/1/20	3/11/2011	1146	3.14	43398
1F5POOL	F5TS14	2008/1/20	3/11/2011	1146	3.14	43384
1F5POOL	F5TS15	2008/1/20	3/11/2011	1146	3.14	43173
1F5POOL	F5TS16	2008/1/20	3/11/2011	1146	3.14	43166
1F5POOL	F5TS18	2006/7/31	3/11/2011	1684	4.61	43326
1F5POOL	F5TS19	2006/7/31	3/11/2011	1684	4.61	43337
1F5POOL	F5TS20	2006/7/31	3/11/2011	1684	4.61	43336
1F5POOL	F5TS21	2006/7/31	3/11/2011	1684	4.61	43642
1F5POOL	F5TS22	2006/7/31	3/11/2011	1684	4.61	43643

1F5POOL	F5TS24	2006/7/31	3/11/2011	1684	4.61	43809
1F5POOL	F5TS25	2008/1/20	3/11/2011	1146	3.14	43151
1F5POOL	F5TS26	2008/1/20	3/11/2011	1146	3.14	43162
1F5POOL	F5TS27	2008/1/20	3/11/2011	1146	3.14	43045
1F5POOL	F5TS29	2008/1/20	3/11/2011	1146	3.14	44138
1F5POOL	F5TS30	2008/1/20	3/11/2011	1146	3.14	44123
1F5POOL	F5TS31	2008/1/20	3/11/2011	1146	3.14	44157
1F5POOL	F5TS33	2008/1/20	3/11/2011	1146	3.14	45410
1F5POOL	F5TS34	2008/1/20	3/11/2011	1146	3.14	45381
1F5POOL	F5TS35	2008/1/20	3/11/2011	1146	3.14	44611
1F5POOL	F5TS36	2008/1/20	3/11/2011	1146	3.14	44611
1F5POOL	F5TS37	2008/1/20	3/11/2011	1146	3.14	44309
1F5POOL	F5TS38	2008/1/20	3/11/2011	1146	3.14	44306
1F5POOL	F5TS39	2008/1/20	3/11/2011	1146	3.14	44202
1F5POOL	F5TS40	2008/1/20	3/11/2011	1146	3.14	44186
1F5POOL	F5TS41	2006/7/31	3/11/2011	1684	4.61	43793
1F5POOL	F5TS42	2006/7/31	3/11/2011	1684	4.61	43797
1F5POOL	F5TS43	2006/7/31	3/11/2011	1684	4.61	43923
1F5POOL	F5TS44	2006/7/31	3/11/2011	1684	4.61	43922
1F5POOL	F5TS45	2006/7/31	3/11/2011	1684	4.61	44283
1F5POOL	F5TS46	2006/7/31	3/11/2011	1684	4.61	44282
1F5POOL	F5TS47	2006/7/31	3/11/2011	1684	4.61	44220
1F5POOL	F5TS48	2006/7/31	3/11/2011	1684	4.61	44207
1F5POOL	F5TS49	2008/1/20	3/11/2011	1146	3.14	43940
1F5POOL	F5TS50	2008/1/20	3/11/2011	1146	3.14	43924
1F5POOL	F5TS51	2008/1/20	3/11/2011	1146	3.14	42716
1F5POOL	F5TS52	2008/1/20	3/11/2011	1146	3.14	42706
1F5POOL	F5WS33	2011/1/3	3/11/2011	67	0.18	44088
1F5POOL	F5WS39	2011/1/3	3/11/2011	67	0.18	44404
1F5POOL	F5WS42	2011/1/3	3/11/2011	67	0.18	43320
1F5POOL	F5WS107	2011/1/3	3/11/2011	67	0.18	43204
1F5POOL	F5WS110	2011/1/3	3/11/2011	67	0.18	43443
1F5POOL	F5US83	2008/1/20	3/11/2011	1146	3.14	43276
1F5POOL	F5US84	2008/1/20	3/11/2011	1146	3.14	43290
1F5POOL	F5US85	2009/9/1	3/11/2011	556	1.52	42866
1F5POOL	F5US86	2009/9/1	3/11/2011	556	1.52	42868
1F5POOL	F5US87	2009/9/1	3/11/2011	556	1.52	42816
1F5POOL	F5US88	2009/9/1	3/11/2011	556	1.52	42811
1F5POOL	F5US90	2008/1/20	3/11/2011	1146	3.14	42378
1F5POOL	F5US91	2008/1/20	3/11/2011	1146	3.14	42359
1F5POOL	F5US93	2008/1/20	3/11/2011	1146	3.14	41474
1F5POOL	F5US94	2008/1/20	3/11/2011	1146	3.14	41478
1F5POOL	F5US96	2008/1/20	3/11/2011	1146	3.14	41553
1F5POOL	F5US97	2008/1/20	3/11/2011	1146	3.14	41976
1F5POOL	F5US99	2008/1/20	3/11/2011	1146	3.14	42017
1F5POOL	F5WS1	2011/1/3	3/11/2011	67	0.18	43321
1F5POOL	F5WS6	2011/1/3	3/11/2011	67	0.18	43798
1F5POOL	F5WS7	2011/1/3	3/11/2011	67	0.18	43791
1F5POOL	F5WS8	2011/1/3	3/11/2011	67	0.18	43789
1F5POOL	F5WS9	2011/1/3	3/11/2011	67	0.18	43788
1F5POOL	F5VS47	2009/9/1	3/11/2011	556	1.52	42581
1F5POOL	F5VS48	2009/9/1	3/11/2011	556	1.52	42584
1F5POOL	F5VS49	2009/9/1	3/11/2011	556	1.52	44269

1F5POOL	F5VS50	2009/9/1	3/11/2011	556	1.52	44277
1F5POOL	F5VS51	2009/9/1	3/11/2011	556	1.52	44247
1F5POOL	F5VS52	2009/9/1	3/11/2011	556	1.52	44260
1F5POOL	F5VS53	2009/9/1	3/11/2011	556	1.52	43746
1F5POOL	F5VS54	2009/9/1	3/11/2011	556	1.52	43744
1F5POOL	F5VS55	2009/9/1	3/11/2011	556	1.52	43723
1F5POOL	F5VS56	2009/9/1	3/11/2011	556	1.52	43710
1F5POOL	F5VS57	2009/9/1	3/11/2011	556	1.52	43883
1F5POOL	F5VS58	2009/9/1	3/11/2011	556	1.52	43895
1F5POOL	F5VS59	2009/9/1	3/11/2011	556	1.52	43873
1F5POOL	F5VS60	2009/9/1	3/11/2011	556	1.52	43870
1F5POOL	F5VS61	2009/9/1	3/11/2011	556	1.52	45763
1F5POOL	F5VS62	2009/9/1	3/11/2011	556	1.52	45762
1F5POOL	F5VS63	2009/9/1	3/11/2011	556	1.52	45536
1F5POOL	F5VS64	2009/9/1	3/11/2011	556	1.52	45544
1F5POOL	F5VS65	2011/1/3	3/11/2011	67	0.18	44411
1F5POOL	F5VS66	2011/1/3	3/11/2011	67	0.18	44418
1F5POOL	F5VS68	2011/1/3	3/11/2011	67	0.18	44301
1F5POOL	F5VS69	2011/1/3	3/11/2011	67	0.18	45159
1F5POOL	F5VS71	2011/1/3	3/11/2011	67	0.18	45112
1F5POOL	F5VS72	2011/1/3	3/11/2011	67	0.18	45105
1F5POOL	F5VS74	2011/1/3	3/11/2011	67	0.18	44226
1F5POOL	F5VS75	2011/1/3	3/11/2011	67	0.18	44801
1F5POOL	F5VS77	2009/9/1	3/11/2011	556	1.52	47124
1F5POOL	F5VS78	2009/9/1	3/11/2011	556	1.52	47142
1F5POOL	F5VS79	2011/1/3	3/11/2011	67	0.18	42698
1F5POOL	F5VS80	2011/1/3	3/11/2011	67	0.18	42701
1F5POOL	F5VS81	2011/1/3	3/11/2011	67	0.18	44247
1F5POOL	F5VS82	2011/1/3	3/11/2011	67	0.18	44254
1F5POOL	F5VS83	2011/1/3	3/11/2011	67	0.18	43988
1F5POOL	F5VS84	2011/1/3	3/11/2011	67	0.18	43988
1F5POOL	F5VS85	2009/9/1	3/11/2011	556	1.52	47124
1F5POOL	F5VS86	2009/9/1	3/11/2011	556	1.52	47129
1F5POOL	F5VS87	2009/9/1	3/11/2011	556	1.52	47150
1F5POOL	F5VS88	2009/9/1	3/11/2011	556	1.52	47153
1F5POOL	F5VS89	2011/1/3	3/11/2011	67	0.18	44958
1F5POOL	F5VS90	2011/1/3	3/11/2011	67	0.18	44969
1F5POOL	F5VS91	2011/1/3	3/11/2011	67	0.18	44863
1F5POOL	F5WS14	2011/1/3	3/11/2011	67	0.18	44406
1F5POOL	F5WS15	2011/1/3	3/11/2011	67	0.18	44404
1F5POOL	F5WS16	2011/1/3	3/11/2011	67	0.18	44432
1F5POOL	F5WS38	2011/1/3	3/11/2011	67	0.18	44420
1F5POOL	F5WS40	2011/1/3	3/11/2011	67	0.18	44404
1F5POOL	F5WS41	2011/1/3	3/11/2011	67	0.18	44404
1F5POOL	F5WS43	2011/1/3	3/11/2011	67	0.18	43314
1F5POOL	F5WS44	2011/1/3	3/11/2011	67	0.18	43334
1F5POOL	F5WS45	2011/1/3	3/11/2011	67	0.18	43331
1F5POOL	F5WS46	2011/1/3	3/11/2011	67	0.18	43596
1F5POOL	F5WS47	2011/1/3	3/11/2011	67	0.18	43614
1F5POOL	F5WS48	2011/1/3	3/11/2011	67	0.18	43607
1F5POOL	F5WS49	2011/1/3	3/11/2011	67	0.18	43598
1F5POOL	F5WS50	2011/1/3	3/11/2011	67	0.18	44795
1F5POOL	F5WS51	2011/1/3	3/11/2011	67	0.18	44796

1F5POOL	F5WS17	2011/1/3	3/11/2011	67	0.18	44420
1F5POOL	F5WS18	2011/1/3	3/11/2011	67	0.18	44221
1F5POOL	F5WS19	2011/1/3	3/11/2011	67	0.18	44224
1F5POOL	F5WS20	2011/1/3	3/11/2011	67	0.18	44215
1F5POOL	F5WS21	2011/1/3	3/11/2011	67	0.18	44211
1F5POOL	F5WS22	2011/1/3	3/11/2011	67	0.18	43269
1F5POOL	F5WS23	2011/1/3	3/11/2011	67	0.18	43273
1F5POOL	F5WS24	2011/1/3	3/11/2011	67	0.18	43182
1F5POOL	F5WS25	2011/1/3	3/11/2011	67	0.18	43166
1F5POOL	F5WS30	2011/1/3	3/11/2011	67	0.18	44109
1F5POOL	F5WS31	2011/1/3	3/11/2011	67	0.18	44104
1F5POOL	F5WS32	2011/1/3	3/11/2011	67	0.18	44082
1F5POOL	F5US1	2011/1/3	3/11/2011	67	0.18	44515
1F5POOL	F5US2	2011/1/3	3/11/2011	67	0.18	44512
1F5POOL	F5US3	2009/9/1	3/11/2011	556	1.52	42760
1F5POOL	F5US4	2009/9/1	3/11/2011	556	1.52	42764
1F5POOL	F5US6	2008/1/20	3/11/2011	1146	3.14	41413
1F5POOL	F5US7	2008/1/20	3/11/2011	1146	3.14	41796
1F5POOL	F5US9	2008/1/20	3/11/2011	1146	3.14	44298
1F5POOL	F5US10	2008/1/20	3/11/2011	1146	3.14	44299
1F5POOL	F5US11	2008/1/20	3/11/2011	1146	3.14	44214
1F5POOL	F5US12	2008/1/20	3/11/2011	1146	3.14	44233
1F5POOL	F5US13	2008/1/20	3/11/2011	1146	3.14	44741
1F5POOL	F5US14	2008/1/20	3/11/2011	1146	3.14	44742
1F5POOL	F5US15	2008/1/20	3/11/2011	1146	3.14	44737
1F5POOL	F5US16	2008/1/20	3/11/2011	1146	3.14	44747
1F5POOL	F5US17	2008/1/20	3/11/2011	1146	3.14	43928
1F5POOL	F5US18	2008/1/20	3/11/2011	1146	3.14	43927
1F5POOL	F5US19	2008/1/20	3/11/2011	1146	3.14	43952
1F5POOL	F5US20	2008/1/20	3/11/2011	1146	3.14	43953
1F5POOL	F5US21	2008/1/20	3/11/2011	1146	3.14	41474
1F5POOL	F5US22	2008/1/20	3/11/2011	1146	3.14	41473
1F5POOL	F5US23	2008/1/20	3/11/2011	1146	3.14	41430
1F5POOL	F5US24	2008/1/20	3/11/2011	1146	3.14	41435
1F5POOL	F5US25	2008/1/20	3/11/2011	1146	3.14	42781
1F5POOL	F5US26	2008/1/20	3/11/2011	1146	3.14	42793
1F5POOL	F5US27	2008/1/20	3/11/2011	1146	3.14	42900
1F5POOL	F5US28	2008/1/20	3/11/2011	1146	3.14	42913
1F5POOL	F5US30	2011/1/3	3/11/2011	67	0.18	45090
1F5POOL	F5US32	2009/9/1	3/11/2011	556	1.52	43213
1F5POOL	F5US33	2008/1/20	3/11/2011	1146	3.14	45040
1F5POOL	F5US35	2008/1/20	3/11/2011	1146	3.14	44983
1F5POOL	F5US36	2008/1/20	3/11/2011	1146	3.14	44978
1F5POOL	F5US37	2008/1/20	3/11/2011	1146	3.14	41403
1F5POOL	F5US38	2008/1/20	3/11/2011	1146	3.14	41410
1F5POOL	F5US39	2009/9/1	3/11/2011	556	1.52	45499
1F5POOL	F5US40	2009/9/1	3/11/2011	556	1.52	45496
1F5POOL	F5US41	2008/1/20	3/11/2011	1146	3.14	43941
1F5POOL	F5US42	2008/1/20	3/11/2011	1146	3.14	43941
1F5POOL	F5US43	2008/1/20	3/11/2011	1146	3.14	43891
1F5POOL	F5US44	2008/1/20	3/11/2011	1146	3.14	43894
1F5POOL	F5US45	2008/1/20	3/11/2011	1146	3.14	43779
1F5POOL	F5US46	2008/1/20	3/11/2011	1146	3.14	43777

1F5POOL	F5US47	2008/1/20	3/11/2011	1146	3.14	43632
1F5POOL	F5US48	2008/1/20	3/11/2011	1146	3.14	43626
1F5POOL	F5US49	2008/1/20	3/11/2011	1146	3.14	42156
1F5POOL	F5US50	2008/1/20	3/11/2011	1146	3.14	42162
1F5POOL	F5US51	2008/1/20	3/11/2011	1146	3.14	42150
1F5POOL	F5US52	2008/1/20	3/11/2011	1146	3.14	42152
1F5POOL	F5WS52	2011/1/3	3/11/2011	67	0.18	44815
1F5POOL	F5WS53	2011/1/3	3/11/2011	67	0.18	44820
1F5POOL	F5VS9	2011/1/3	3/11/2011	67	0.18	43453
1F5POOL	F5VS10	2011/1/3	3/11/2011	67	0.18	43442
1F5POOL	F5VS11	2011/1/3	3/11/2011	67	0.18	43403
1F5POOL	F5VS12	2011/1/3	3/11/2011	67	0.18	43402
1F5POOL	F5VS13	2011/1/3	3/11/2011	67	0.18	42482
1F5POOL	F5VS14	2011/1/3	3/11/2011	67	0.18	42475
1F5POOL	F5VS17	2011/1/3	3/11/2011	67	0.18	42231
1F5POOL	F5VS18	2011/1/3	3/11/2011	67	0.18	42230
1F5POOL	F5VS19	2011/1/3	3/11/2011	67	0.18	42193
1F5POOL	F5VS20	2011/1/3	3/11/2011	67	0.18	42195
1F5POOL	F5VS21	2011/1/3	3/11/2011	67	0.18	44169
1F5POOL	F5VS22	2011/1/3	3/11/2011	67	0.18	44176
1F5POOL	F5VS23	2009/9/1	3/11/2011	556	1.52	47919
1F5POOL	F5VS24	2009/9/1	3/11/2011	556	1.52	47929
1F5POOL	F5VS1	2011/1/3	3/11/2011	67	0.18	43589
1F5POOL	F5VS25	2011/1/3	3/11/2011	67	0.18	44343
1F5POOL	F5VS26	2011/1/3	3/11/2011	67	0.18	44340
1F5POOL	F5VS27	2011/1/3	3/11/2011	67	0.18	44303
1F5POOL	F5VS28	2011/1/3	3/11/2011	67	0.18	44307
1F5POOL	F5VS29	2011/1/3	3/11/2011	67	0.18	44375
1F5POOL	F5VS30	2011/1/3	3/11/2011	67	0.18	44365
1F5POOL	F5VS31	2011/1/3	3/11/2011	67	0.18	44657
1F5POOL	F5VS32	2011/1/3	3/11/2011	67	0.18	44659
1F5POOL	F5VS34	2011/1/3	3/11/2011	67	0.18	43224
1F5POOL	F5VS35	2011/1/3	3/11/2011	67	0.18	43342
1F5POOL	F5VS37	2009/9/1	3/11/2011	556	1.52	42907
1F5POOL	F5VS38	2009/9/1	3/11/2011	556	1.52	42898
1F5POOL	F5VS40	2009/9/1	3/11/2011	556	1.52	42626
1F5POOL	F5VS41	2009/9/1	3/11/2011	556	1.52	44973
1F5POOL	F5VS43	2009/9/1	3/11/2011	556	1.52	45006
1F5POOL	F5VS44	2009/9/1	3/11/2011	556	1.52	44997
1F5POOL	F5VS45	2009/9/1	3/11/2011	556	1.52	42712
1F5POOL	F5VS46	2009/9/1	3/11/2011	556	1.52	42712
1F5POOL	F5VS92	2011/1/3	3/11/2011	67	0.18	44869
1F5POOL	F5US100	2008/1/20	3/11/2011	1146	3.14	42025
1F5POOL	F5US101	2009/9/1	3/11/2011	556	1.52	46743
1F5POOL	F5US102	2009/9/1	3/11/2011	556	1.52	46749
1F5POOL	F5US103	2009/9/1	3/11/2011	556	1.52	46725
1F5POOL	F5US104	2009/9/1	3/11/2011	556	1.52	46730
1F5POOL	F5US105	2009/9/1	3/11/2011	556	1.52	43319
1F5POOL	F5US106	2009/9/1	3/11/2011	556	1.52	43320
1F5POOL	F5US107	2009/9/1	3/11/2011	556	1.52	43303
1F5POOL	F5US108	2009/9/1	3/11/2011	556	1.52	43303
1F5POOL	F5US29	2011/1/3	3/11/2011	67	0.18	45085
1F5POOL	F5US31	2009/9/1	3/11/2011	556	1.52	43209

1F5POOL	F5US34	2008/1/20	3/11/2011	1146	3.14	45040
1F5POOL	F5US5	2008/1/20	3/11/2011	1146	3.14	41419
1F5POOL	F5US59	2009/9/1	3/11/2011	556	1.52	45263
1F5POOL	F5US62	2009/9/1	3/11/2011	556	1.52	44985
1F5POOL	F5US65	2009/9/1	3/11/2011	556	1.52	44457
1F5POOL	F5US68	2009/9/1	3/11/2011	556	1.52	44445
1F5POOL	F5US8	2008/1/20	3/11/2011	1146	3.14	41804
1F5POOL	F5US89	2008/1/20	3/11/2011	1146	3.14	42377
1F5POOL	F5US92	2008/1/20	3/11/2011	1146	3.14	42362
1F5POOL	F5US95	2008/1/20	3/11/2011	1146	3.14	41551
1F5POOL	F5US98	2008/1/20	3/11/2011	1146	3.14	41976
1F5POOL	F5VS94	2009/9/1	3/11/2011	556	1.52	43393
1F5POOL	F5VS95	2009/9/1	3/11/2011	556	1.52	43470
1F5POOL	F5VS96	2009/9/1	3/11/2011	556	1.52	43475
1F5POOL	F5VS99	2011/1/3	3/11/2011	67	0.18	42315
1F5POOL	F5VS100	2011/1/3	3/11/2011	67	0.18	42314
1F5POOL	F5VS101	2009/9/1	3/11/2011	556	1.52	44436
1F5POOL	F5VS102	2009/9/1	3/11/2011	556	1.52	44439
1F5POOL	F5VS103	2009/9/1	3/11/2011	556	1.52	44437
1F5POOL	F5VS104	2009/9/1	3/11/2011	556	1.52	44450
1F5POOL	F5VS105	2009/9/1	3/11/2011	556	1.52	43391
1F5POOL	F5VS106	2011/1/3	3/11/2011	67	0.18	43387
1F5POOL	F5VS107	2011/1/3	3/11/2011	67	0.18	43394
1F5POOL	F5WS62	2011/1/3	3/11/2011	67	0.18	44075
1F5POOL	F5WS63	2011/1/3	3/11/2011	67	0.18	44072
1F5POOL	F5WS64	2011/1/3	3/11/2011	67	0.18	44082
1F5POOL	F5WS65	2011/1/3	3/11/2011	67	0.18	44078
1F5POOL	F5WS78	2011/1/3	3/11/2011	67	0.18	45492
1F5POOL	F5WS79	2011/1/3	3/11/2011	67	0.18	45483
1F5POOL	F5WS80	2011/1/3	3/11/2011	67	0.18	45549
1F5POOL	F5WS81	2011/1/3	3/11/2011	67	0.18	45554
1F5POOL	F5WS105	2011/1/3	3/11/2011	67	0.18	43285
1F5POOL	F5WS106	2011/1/3	3/11/2011	67	0.18	43279
1F5POOL	F5WS108	2011/1/3	3/11/2011	67	0.18	43217
1F5POOL	F5WS109	2011/1/3	3/11/2011	67	0.18	43436
1F5POOL	F5WS111	2011/1/3	3/11/2011	67	0.18	43498
1F5POOL	F5WS112	2011/1/3	3/11/2011	67	0.18	43496
1F5POOL	F5VS108	2011/1/3	3/11/2011	67	0.18	43389
1F5POOL	F5VS109	2009/9/1	3/11/2011	556	1.52	44666
1F5POOL	F5VS110	2009/9/1	3/11/2011	556	1.52	44664
1F5POOL	F5VS111	2009/9/1	3/11/2011	556	1.52	44660
1F5POOL	F5VS112	2009/9/1	3/11/2011	556	1.52	44662
1F5POOL	F5VS113	2009/9/1	3/11/2011	556	1.52	43097
1F5POOL	F5VS33	2011/1/3	3/11/2011	67	0.18	43227
1F5POOL	F5VS36	2011/1/3	3/11/2011	67	0.18	43337
1F5POOL	F5VS39	2009/9/1	3/11/2011	556	1.52	42619
1F5POOL	F5VS42	2009/9/1	3/11/2011	556	1.52	44973
1F5POOL	F5VS67	2011/1/3	3/11/2011	67	0.18	44300
1F5POOL	F5VS70	2011/1/3	3/11/2011	67	0.18	45158
1F5POOL	F5VS73	2011/1/3	3/11/2011	67	0.18	44244
1F5POOL	F5VS76	2011/1/3	3/11/2011	67	0.18	44812
1F5POOL	F5VS114	2009/9/1	3/11/2011	556	1.52	43093
1F5POOL	F5VS116	2009/9/1	3/11/2011	556	1.52	43046

1F5POOL	F5VS117	2009/9/1	3/11/2011	556	1.52	43023
1F5POOL	F5VS119	2009/9/1	3/11/2011	556	1.52	43195
1F5POOL	F5VS120	2009/9/1	3/11/2011	556	1.52	43201
1F5POOL	F5VS122	2009/9/1	3/11/2011	556	1.52	43488
1F5POOL	F5VS123	2009/9/1	3/11/2011	556	1.52	43155
1F5POOL	F5VS125	2009/9/1	3/11/2011	556	1.52	47107
1F5POOL	F5VS126	2009/9/1	3/11/2011	556	1.52	47113
1F5POOL	F5VS127	2009/9/1	3/11/2011	556	1.52	47081
1F5POOL	F5VS128	2009/9/1	3/11/2011	556	1.52	47094
1F5POOL	F5VS129	2011/1/3	3/11/2011	67	0.18	43555
1F5POOL	F5VS130	2011/1/3	3/11/2011	67	0.18	43562
1F5POOL	F5VS131	2011/1/3	3/11/2011	67	0.18	43558
1F5POOL	F5VS132	2011/1/3	3/11/2011	67	0.18	43554
1F5POOL	F5VS115	2009/9/1	3/11/2011	556	1.52	43038
1F5POOL	F5VS118	2009/9/1	3/11/2011	556	1.52	43026
1F5POOL	F5VS121	2009/9/1	3/11/2011	556	1.52	43495
1F5POOL	F5VS124	2009/9/1	3/11/2011	556	1.52	43167
1F5POOL	F5VS2	2011/1/3	3/11/2011	67	0.18	43603
1F5POOL	F5VS3	2011/1/3	3/11/2011	67	0.18	43577
1F5POOL	F5VS4	2011/1/3	3/11/2011	67	0.18	43561
1F5POOL	F5VS5	2011/1/3	3/11/2011	67	0.18	43406
1F5POOL	F5VS6	2011/1/3	3/11/2011	67	0.18	43398
1F5POOL	F5VS7	2011/1/3	3/11/2011	67	0.18	43517
1F5POOL	F5VS8	2011/1/3	3/11/2011	67	0.18	43524
1F5POOL	F5US53	2008/1/20	3/11/2011	1146	3.14	43563
1F5POOL	F5US54	2008/1/20	3/11/2011	1146	3.14	43561
1F5POOL	F5US55	2008/1/20	3/11/2011	1146	3.14	43650
1F5POOL	F5US56	2008/1/20	3/11/2011	1146	3.14	43654
1F5POOL	F5US57	2009/9/1	3/11/2011	556	1.52	45252
1F5POOL	F5US58	2009/9/1	3/11/2011	556	1.52	45243
1F5POOL	F5US60	2009/9/1	3/11/2011	556	1.52	45259
1F5POOL	F5US61	2009/9/1	3/11/2011	556	1.52	44989
1F5POOL	F5US63	2009/9/1	3/11/2011	556	1.52	45264
1F5POOL	F5US64	2009/9/1	3/11/2011	556	1.52	45288
1F5POOL	F5US66	2009/9/1	3/11/2011	556	1.52	44470
1F5POOL	F5US67	2009/9/1	3/11/2011	556	1.52	44457
1F5POOL	F5US69	2008/1/20	3/11/2011	1146	3.14	45123
1F5POOL	F5US70	2008/1/20	3/11/2011	1146	3.14	45117
1F5POOL	F5US71	2008/1/20	3/11/2011	1146	3.14	45129
1F5POOL	F5US72	2008/1/20	3/11/2011	1146	3.14	45131
1F5POOL	F5US73	2009/9/1	3/11/2011	556	1.52	46532
1F5POOL	F5US74	2009/9/1	3/11/2011	556	1.52	46546
1F5POOL	F5US75	2009/9/1	3/11/2011	556	1.52	45221
1F5POOL	F5US76	2009/9/1	3/11/2011	556	1.52	45222
1F5POOL	F5US77	2009/9/1	3/11/2011	556	1.52	43973
1F5POOL	F5US78	2009/9/1	3/11/2011	556	1.52	43969
1F5POOL	F5US79	2009/9/1	3/11/2011	556	1.52	45549
1F5POOL	F5US80	2009/9/1	3/11/2011	556	1.52	45546
1F5POOL	F5US81	2008/1/20	3/11/2011	1146	3.14	43512
1F5POOL	F5US82	2008/1/20	3/11/2011	1146	3.14	43521
	F5ADN100					
	F5ADN101					
	F5ADN102					

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F5ADN99

Unit	Fuel ID	Shutdown Date	Earthquake Date	Cooling Duration (Days)	Cooling Duration (Yeas)	Burn up
				8420 209 2120.63504	MAX= MIN= AVE=	50151 1974 42297.3139
1F6POOL	F6SN104	2009/3/11	3/11/2011	730	2.00	46124
1F6POOL	F6SN105	2009/3/11	3/11/2011	730	2.00	44329
1F6POOL	F6SN106	2009/3/11	3/11/2011	730	2.00	44484
1F6POOL	F6K140	1998/2/12	3/11/2011	4775	13.08	35127
1F6POOL	F6K143	1998/2/12	3/11/2011	4775	13.08	34550
1F6POOL	F6K144	1998/2/12	3/11/2011	4775	13.08	34711
1F6POOL	F6K149	1999/7/25	3/11/2011	4247	11.64	35859
1F6POOL	F6K13	1999/7/25	3/11/2011	4247	11.64	36174
1F6POOL	F6K41	1998/2/12	3/11/2011	4775	13.08	35042
1F6POOL	F6K46	1998/2/12	3/11/2011	4775	13.08	35121
1F6POOL	F6K205	2000/11/8	3/11/2011	3775	10.34	36018
1F6POOL	F6K211	2000/11/8	3/11/2011	3775	10.34	35820
1F6POOL	F6K237	1999/7/25	3/11/2011	4247	11.64	34752
1F6POOL	F6K243	2000/11/8	3/11/2011	3775	10.34	35363
1F6POOL	F6P17	2005/12/21	3/11/2011	1906	5.22	41961
1F6POOL	F6P52	2005/12/21	3/11/2011	1906	5.22	40847
1F6POOL	F6P81	2003/9/30	3/11/2011	2719	7.45	43383
1F6POOL	F6P86	2005/12/21	3/11/2011	1906	5.22	41561
1F6POOL	F6P123	2005/12/21	3/11/2011	1906	5.22	41046
1F6POOL	F6P150	2005/12/21	3/11/2011	1906	5.22	41629
1F6POOL	F6P156	2007/10/1	3/11/2011	1257	3.44	44261
1F6POOL	F6P184	2005/12/21	3/11/2011	1906	5.22	41573
1F6POOL	F6P189	2007/10/1	3/11/2011	1257	3.44	42582
1F6POOL	F6J5	1998/2/12	3/11/2011	4775	13.08	36146
1F6POOL	F6J17	1999/7/25	3/11/2011	4247	11.64	35075
1F6POOL	F6J18	1999/7/25	3/11/2011	4247	11.64	35451
1F6POOL	F6J19	1999/7/25	3/11/2011	4247	11.64	35598
1F6POOL	F6J20	1999/7/25	3/11/2011	4247	11.64	35937
1F6POOL	F6J23	1999/7/25	3/11/2011	4247	11.64	35290
1F6POOL	F6J25	1999/7/25	3/11/2011	4247	11.64	34922
1F6POOL	F6J27	1999/7/25	3/11/2011	4247	11.64	34872
1F6POOL	F6J28	1999/7/25	3/11/2011	4247	11.64	34706
1F6POOL	F6J30	1999/7/25	3/11/2011	4247	11.64	35366
1F6POOL	F6J33	1999/7/25	3/11/2011	4247	11.64	35729
1F6POOL	F6J34	1999/7/25	3/11/2011	4247	11.64	35866
1F6POOL	F6J35	1999/7/25	3/11/2011	4247	11.64	34967
1F6POOL	F6J36	1999/7/25	3/11/2011	4247	11.64	35536
1F6POOL	F6K148	1998/2/12	3/11/2011	4775	13.08	34588
1F6POOL	F6P144	2005/12/21	3/11/2011	1906	5.22	40995
1F6POOL	F6SN107	2009/3/11	3/11/2011	730	2.00	44247
1F6POOL	F6SN108	2009/3/11	3/11/2011	730	2.00	44317
1F6POOL	F6SN109	2007/10/1	3/11/2011	1257	3.44	43528
1F6POOL	F6SN110	2007/10/1	3/11/2011	1257	3.44	43795
1F6POOL	F6SN111	2007/10/1	3/11/2011	1257	3.44	43258
1F6POOL	F6SN112	2007/10/1	3/11/2011	1257	3.44	43612
1F6POOL	F6SN113	2007/10/1	3/11/2011	1257	3.44	43131
1F6POOL	F6SN114	2007/10/1	3/11/2011	1257	3.44	43279
1F6POOL	F6SN115	2007/10/1	3/11/2011	1257	3.44	42968

1F6POOL	F6SN116	2007/10/1	3/11/2011	1257	3.44	43131
1F6POOL	F6SN117	2009/3/11	3/11/2011	730	2.00	44984
1F6POOL	F6SN118	2009/3/11	3/11/2011	730	2.00	45262
1F6POOL	F6SN119	2009/3/11	3/11/2011	730	2.00	45585
1F6POOL	F6SN120	2009/3/11	3/11/2011	730	2.00	45274
1F6POOL	F6SN121	2009/3/11	3/11/2011	730	2.00	45817
1F6POOL	F6SN122	2009/3/11	3/11/2011	730	2.00	46081
1F6POOL	F6SN123	2009/3/11	3/11/2011	730	2.00	45815
1F6POOL	F6SN124	2009/3/11	3/11/2011	730	2.00	45810
1F6POOL	F6SN125	2007/10/1	3/11/2011	1257	3.44	43604
1F6POOL	F6SN127	2007/10/1	3/11/2011	1257	3.44	43215
1F6POOL	F6SN128	2007/10/1	3/11/2011	1257	3.44	44149
1F6POOL	F6SN130	2009/3/11	3/11/2011	730	2.00	49574
1F6POOL	F6SN131	2009/3/11	3/11/2011	730	2.00	50151
1F6POOL	F6SN133	2010/8/14	3/11/2011	209	0.57	46720
1F6POOL	F6SN135	2010/8/14	3/11/2011	209	0.57	46404
1F6POOL	F6SN136	2010/8/14	3/11/2011	209	0.57	46969
1F6POOL	F6SN138	2009/3/11	3/11/2011	730	2.00	45696
1F6POOL	F6SN139	2007/10/1	3/11/2011	1257	3.44	44344
1F6POOL	F6SN140	2009/3/11	3/11/2011	730	2.00	45490
1F6POOL	F6SN141	2007/10/1	3/11/2011	1257	3.44	44207
1F6POOL	F6SN142	2007/10/1	3/11/2011	1257	3.44	44406
1F6POOL	F6SN143	2007/10/1	3/11/2011	1257	3.44	43985
1F6POOL	F6SN144	2007/10/1	3/11/2011	1257	3.44	44206
1F6POOL	F6SN145	2009/3/11	3/11/2011	730	2.00	47130
1F6POOL	F6SN146	2009/3/11	3/11/2011	730	2.00	47548
1F6POOL	F6SN147	2009/3/11	3/11/2011	730	2.00	47117
1F6POOL	F6SN148	2009/3/11	3/11/2011	730	2.00	47182
1F6POOL	F6SN149	2009/3/11	3/11/2011	730	2.00	46561
1F6POOL	F6SN150	2009/3/11	3/11/2011	730	2.00	47520
1F6POOL	F6SN151	2009/3/11	3/11/2011	730	2.00	46197
1F6POOL	F6SN152	2009/3/11	3/11/2011	730	2.00	46973
1F6POOL	F6SN153	2009/3/11	3/11/2011	730	2.00	45639
1F6POOL	F6SN154	2009/3/11	3/11/2011	730	2.00	45658
1F6POOL	F6SN155	2009/3/11	3/11/2011	730	2.00	45592
1F6POOL	F6SN156	2009/3/11	3/11/2011	730	2.00	45500
1F6POOL	F6SN157	2009/3/11	3/11/2011	730	2.00	46327
1F6POOL	F6SN158	2009/3/11	3/11/2011	730	2.00	47041
1F6POOL	F6SN159	2009/3/11	3/11/2011	730	2.00	44614
1F6POOL	F6SN160	2009/3/11	3/11/2011	730	2.00	46730
1F6POOL	F6SN162	2009/3/11	3/11/2011	730	2.00	44713
1F6POOL	F6SN163	2007/10/1	3/11/2011	1257	3.44	43589
1F6POOL	F6SN165	2009/3/11	3/11/2011	730	2.00	45208
1F6POOL	F6SN167	2009/3/11	3/11/2011	730	2.00	44886
1F6POOL	F6SN168	2009/3/11	3/11/2011	730	2.00	45527
1F6POOL	F6SN170	2009/3/11	3/11/2011	730	2.00	45289
1F6POOL	F6SN171	2009/3/11	3/11/2011	730	2.00	45190
1F6POOL	F6SN173	2007/10/1	3/11/2011	1257	3.44	43678
1F6POOL	F6SN174	2009/3/11	3/11/2011	730	2.00	45935
1F6POOL	F6SN175	2009/3/11	3/11/2011	730	2.00	46157
1F6POOL	F6SN176	2007/10/1	3/11/2011	1257	3.44	43727
1F6POOL	F6SN177	2007/10/1	3/11/2011	1257	3.44	44138
1F6POOL	F6SN178	2007/10/1	3/11/2011	1257	3.44	44492

1F6POOL	F6SN179	2007/10/1	3/11/2011	1257	3.44	44232
1F6POOL	F6SN180	2007/10/1	3/11/2011	1257	3.44	44127
1F6POOL	F6SN181	2007/10/1	3/11/2011	1257	3.44	43413
1F6POOL	F6SN182	2007/10/1	3/11/2011	1257	3.44	43457
1F6POOL	F6SN183	2009/3/11	3/11/2011	730	2.00	45989
1F6POOL	F6SN184	2007/10/1	3/11/2011	1257	3.44	43176
1F6POOL	F6SN25	2007/10/1	3/11/2011	1257	3.44	43685
1F6POOL	F6SN27	2007/10/1	3/11/2011	1257	3.44	43314
1F6POOL	F6SN30	2007/10/1	3/11/2011	1257	3.44	43504
1F6POOL	F6SN53	2009/3/11	3/11/2011	730	2.00	45989
1F6POOL	F6SN56	2007/10/1	3/11/2011	1257	3.44	43121
1F6POOL	F6SN59	2009/3/11	3/11/2011	730	2.00	45193
1F6POOL	F6SN62	2009/3/11	3/11/2011	730	2.00	45736
1F6POOL	F6SN64	2009/3/11	3/11/2011	730	2.00	45611
1F6POOL	F6SN89	2009/3/11	3/11/2011	730	2.00	45988
1F6POOL	F6SN92	2009/3/11	3/11/2011	730	2.00	45937
1F6POOL	F6SN95	2007/10/1	3/11/2011	1257	3.44	43627
1F6POOL	F6SN97	2009/3/11	3/11/2011	730	2.00	45895
1F6POOL	F6SN100	2009/3/11	3/11/2011	730	2.00	45646
1F6POOL	F6SN126	2007/10/1	3/11/2011	1257	3.44	44061
1F6POOL	F6SN129	2009/3/11	3/11/2011	730	2.00	49584
1F6POOL	F6SN132	2009/3/11	3/11/2011	730	2.00	49581
1F6POOL	F6SN134	2010/8/14	3/11/2011	209	0.57	47005
1F6POOL	F6SN137	2009/3/11	3/11/2011	730	2.00	46355
1F6POOL	F6SN161	2009/3/11	3/11/2011	730	2.00	44472
1F6POOL	F6SN164	2009/3/11	3/11/2011	730	2.00	46321
1F6POOL	F6SN166	2009/3/11	3/11/2011	730	2.00	45515
1F6POOL	F6SN169	2009/3/11	3/11/2011	730	2.00	45145
1F6POOL	F6SN172	2009/3/11	3/11/2011	730	2.00	45462
1F6POOL	F6K152	1999/7/25	3/11/2011	4247	11.64	35946
1F6POOL	F6K163	1998/2/12	3/11/2011	4775	13.08	36408
1F6POOL	F6K169	1998/2/12	3/11/2011	4775	13.08	34381
1F6POOL	F6K170	1998/2/12	3/11/2011	4775	13.08	34490
1F6POOL	F6K171	1998/2/12	3/11/2011	4775	13.08	34973
1F6POOL	F6K181	1998/2/12	3/11/2011	4775	13.08	34592
1F6POOL	F6K182	1998/2/12	3/11/2011	4775	13.08	34668
1F6POOL	F6K187	1998/2/12	3/11/2011	4775	13.08	34372
1F6POOL	F6K188	1998/2/12	3/11/2011	4775	13.08	34474
1F6POOL	F6K189	1999/7/25	3/11/2011	4247	11.64	36008
1F6POOL	F6K191	1998/2/12	3/11/2011	4775	13.08	36403
1F6POOL	F6K195	1998/2/12	3/11/2011	4775	13.08	35116
1F6POOL	F6K198	1998/2/12	3/11/2011	4775	13.08	35022
1F6POOL	F6K200	1998/2/12	3/11/2011	4775	13.08	34386
1F6POOL	F6K202	1998/2/12	3/11/2011	4775	13.08	35075
1F6POOL	F6K207	2000/11/8	3/11/2011	3775	10.34	35351
1F6POOL	F6K208	2000/11/8	3/11/2011	3775	10.34	35243
1F6POOL	F6K209	2000/11/8	3/11/2011	3775	10.34	35711
1F6POOL	F6K210	2000/11/8	3/11/2011	3775	10.34	35330
1F6POOL	F6K213	1999/7/25	3/11/2011	4247	11.64	34538
1F6POOL	F6K214	1999/7/25	3/11/2011	4247	11.64	34490
1F6POOL	F6K216	1999/7/25	3/11/2011	4247	11.64	34575
1F6POOL	F6K217	2000/11/8	3/11/2011	3775	10.34	36110
1F6POOL	F6K218	2000/11/8	3/11/2011	3775	10.34	34638

1F6POOL	F6K219	2000/11/8	3/11/2011	3775	10.34	34939
1F6POOL	F6K220	2000/11/8	3/11/2011	3775	10.34	36071
1F6POOL	F6K221	2000/11/8	3/11/2011	3775	10.34	35422
1F6POOL	F6K222	2000/11/8	3/11/2011	3775	10.34	35702
1F6POOL	F6K223	2000/11/8	3/11/2011	3775	10.34	35956
1F6POOL	F6K230	2000/11/8	3/11/2011	3775	10.34	36147
1F6POOL	F6K231	2000/11/8	3/11/2011	3775	10.34	35486
1F6POOL	F6K232	2000/11/8	3/11/2011	3775	10.34	35612
1F6POOL	F6K233	2000/11/8	3/11/2011	3775	10.34	36218
1F6POOL	F6K234	2000/11/8	3/11/2011	3775	10.34	34875
1F6POOL	F6K235	2000/11/8	3/11/2011	3775	10.34	34656
1F6POOL	F6K236	2000/11/8	3/11/2011	3775	10.34	36220
1F6POOL	F6K238	1999/7/25	3/11/2011	4247	11.64	34699
1F6POOL	F6K239	1999/7/25	3/11/2011	4247	11.64	35044
1F6POOL	F6K240	1999/7/25	3/11/2011	4247	11.64	35001
1F6POOL	F6K241	2000/11/8	3/11/2011	3775	10.34	35904
1F6POOL	F6K242	2000/11/8	3/11/2011	3775	10.34	36017
1F6POOL	F6K244	2000/11/8	3/11/2011	3775	10.34	35322
1F6POOL	F6K245	2000/11/8	3/11/2011	3775	10.34	35538
1F6POOL	F6K246	2000/11/8	3/11/2011	3775	10.34	35361
1F6POOL	F6K247	2000/11/8	3/11/2011	3775	10.34	35992
1F6POOL	F6N8	2002/4/7	3/11/2011	3260	8.93	43402
1F6POOL	F6P145	2005/12/21	3/11/2011	1906	5.22	40750
1F6POOL	F6P146	2007/10/1	3/11/2011	1257	3.44	43635
1F6POOL	F6P147	2005/12/21	3/11/2011	1906	5.22	40905
1F6POOL	F6P148	2005/12/21	3/11/2011	1906	5.22	41251
1F6POOL	F6P149	2005/12/21	3/11/2011	1906	5.22	41291
1F6POOL	F6P151	2005/12/21	3/11/2011	1906	5.22	41666
1F6POOL	F6P152	2005/12/21	3/11/2011	1906	5.22	41823
1F6POOL	F6P153	2007/10/1	3/11/2011	1257	3.44	42671
1F6POOL	F6P154	2007/10/1	3/11/2011	1257	3.44	43683
1F6POOL	F6P155	2007/10/1	3/11/2011	1257	3.44	42758
1F6POOL	F6P157	2005/12/21	3/11/2011	1906	5.22	41655
1F6POOL	F6P158	2005/12/21	3/11/2011	1906	5.22	39957
1F6POOL	F6P159	2005/12/21	3/11/2011	1906	5.22	41377
1F6POOL	F6P160	2005/12/21	3/11/2011	1906	5.22	40956
1F6POOL	F6P161	2005/12/21	3/11/2011	1906	5.22	40862
1F6POOL	F6P162	2005/12/21	3/11/2011	1906	5.22	40978
1F6POOL	F6P163	2005/12/21	3/11/2011	1906	5.22	40755
1F6POOL	F6P164	2005/12/21	3/11/2011	1906	5.22	40819
1F6POOL	F6P173	2003/9/30	3/11/2011	2719	7.45	42897
1F6POOL	F6P174	2003/9/30	3/11/2011	2719	7.45	43340
1F6POOL	F6P175	2003/9/30	3/11/2011	2719	7.45	43103
1F6POOL	F6P178	2003/9/30	3/11/2011	2719	7.45	42990
1F6POOL	F6P179	2003/9/30	3/11/2011	2719	7.45	43045
1F6POOL	F6P180	2003/9/30	3/11/2011	2719	7.45	42599
1F6POOL	F6P181	2005/12/21	3/11/2011	1906	5.22	41065
1F6POOL	F6P182	2005/12/21	3/11/2011	1906	5.22	41879
1F6POOL	F6P183	2007/10/1	3/11/2011	1257	3.44	43944
1F6POOL	F6P185	2005/12/21	3/11/2011	1906	5.22	40939
1F6POOL	F6P186	2005/12/21	3/11/2011	1906	5.22	41344
1F6POOL	F6P187	2005/12/21	3/11/2011	1906	5.22	40707
1F6POOL	F6P188	2005/12/21	3/11/2011	1906	5.22	41068

1F6POOL	F6P190	2007/10/1	3/11/2011	1257	3.44	41746
1F6POOL	F6P191	2007/10/1	3/11/2011	1257	3.44	43436
1F6POOL	F6P192	2005/12/21	3/11/2011	1906	5.22	42051
1F6POOL	F6P24	2005/12/21	3/11/2011	1906	5.22	40010
1F6POOL	F6B147	1988/2/20	3/11/2011	8420	23.07	32991
1F6POOL	F6B153	1988/2/20	3/11/2011	8420	23.07	28369
1F6POOL	F6B155	1988/2/20	3/11/2011	8420	23.07	33041
1F6POOL	F6B156	1988/2/20	3/11/2011	8420	23.07	28367
1F6POOL	F6J59	1998/2/12	3/11/2011	4775	13.08	34750
1F6POOL	F6J60	1998/2/12	3/11/2011	4775	13.08	34811
1F6POOL	F6RN19	2005/12/21	3/11/2011	1906	5.22	39933
1F6POOL	F6RN20	2005/12/21	3/11/2011	1906	5.22	40206
1F6POOL	F6N139	2003/9/30	3/11/2011	2719	7.45	42784
1F6POOL	F6N141	2005/12/21	3/11/2011	1906	5.22	40324
1F6POOL	F6N142	2005/12/21	3/11/2011	1906	5.22	41521
1F6POOL	F6N143	2005/12/21	3/11/2011	1906	5.22	41546
1F6POOL	F6N145	2005/12/21	3/11/2011	1906	5.22	41374
1F6POOL	F6N146	2005/12/21	3/11/2011	1906	5.22	41682
1F6POOL	F6N147	2005/12/21	3/11/2011	1906	5.22	40169
1F6POOL	F6N148	2005/12/21	3/11/2011	1906	5.22	41460
1F6POOL	F6N155	2005/12/21	3/11/2011	1906	5.22	40085
1F6POOL	F6P1	2003/9/30	3/11/2011	2719	7.45	42886
1F6POOL	F6P2	2003/9/30	3/11/2011	2719	7.45	43485
1F6POOL	F6P3	2003/9/30	3/11/2011	2719	7.45	43243
1F6POOL	F6P7	2003/9/30	3/11/2011	2719	7.45	42744
1F6POOL	F6P8	2003/9/30	3/11/2011	2719	7.45	42913
1F6POOL	F6P14	2003/9/30	3/11/2011	2719	7.45	42706
1F6POOL	F6P16	2003/9/30	3/11/2011	2719	7.45	42762
1F6POOL	F6P19	2007/10/1	3/11/2011	1257	3.44	42624
1F6POOL	F6P20	2007/10/1	3/11/2011	1257	3.44	42531
1F6POOL	F6P21	2005/12/21	3/11/2011	1906	5.22	40813
1F6POOL	F6P22	2005/12/21	3/11/2011	1906	5.22	41326
1F6POOL	F6P23	2005/12/21	3/11/2011	1906	5.22	40733
1F6POOL	F6RN14	2005/12/21	3/11/2011	1906	5.22	41467
1F6POOL	F6RN15	2005/12/21	3/11/2011	1906	5.22	41290
1F6POOL	F6RN16	2005/12/21	3/11/2011	1906	5.22	40640
1F6POOL	F6RN17	2007/10/1	3/11/2011	1257	3.44	45241
1F6POOL	F6RN18	2007/10/1	3/11/2011	1257	3.44	44263
1F6POOL	F6RN21	2005/12/21	3/11/2011	1906	5.22	40898
1F6POOL	F6G57	1993/9/15	3/11/2011	6386	17.50	34214
1F6POOL	F6G93	1993/9/15	3/11/2011	6386	17.50	34364
1F6POOL	F6G94	1993/9/15	3/11/2011	6386	17.50	34401
1F6POOL	F6G118	1993/9/15	3/11/2011	6386	17.50	34368
1F6POOL	F6G152	1993/9/15	3/11/2011	6386	17.50	34567
1F6POOL	F6P138	2005/12/21	3/11/2011	1906	5.22	39973
1F6POOL	F6P139	2005/12/21	3/11/2011	1906	5.22	40096
1F6POOL	F6P140	2005/12/21	3/11/2011	1906	5.22	40309
1F6POOL	F6P141	2007/10/1	3/11/2011	1257	3.44	41446
1F6POOL	F6J82	1998/2/12	3/11/2011	4775	13.08	34868
1F6POOL	F6J119	1998/2/12	3/11/2011	4775	13.08	35074
1F6POOL	F6J127	1998/2/12	3/11/2011	4775	13.08	34867
1F6POOL	F6J154	1998/2/12	3/11/2011	4775	13.08	34884
1F6POOL	F6J159	1998/2/12	3/11/2011	4775	13.08	34844

1F6POOL	F6RN22	2005/12/21	3/11/2011	1906	5.22	41528
1F6POOL	F6RN23	2005/12/21	3/11/2011	1906	5.22	41601
1F6POOL	F6RN24	2005/12/21	3/11/2011	1906	5.22	41539
1F6POOL	F6RN25	2005/12/21	3/11/2011	1906	5.22	40599
1F6POOL	F6RN26	2005/12/21	3/11/2011	1906	5.22	41182
1F6POOL	F6RN27	2005/12/21	3/11/2011	1906	5.22	41018
1F6POOL	F6RN28	2005/12/21	3/11/2011	1906	5.22	41245
1F6POOL	F6RN29	2005/12/21	3/11/2011	1906	5.22	40148
1F6POOL	F6RN30	2005/12/21	3/11/2011	1906	5.22	40150
1F6POOL	F6RN31	2005/12/21	3/11/2011	1906	5.22	42359
1F6POOL	F6RN33	2005/12/21	3/11/2011	1906	5.22	40615
1F6POOL	F6RN34	2005/12/21	3/11/2011	1906	5.22	39765
1F6POOL	F6RN35	2005/12/21	3/11/2011	1906	5.22	41077
1F6POOL	F6RN36	2005/12/21	3/11/2011	1906	5.22	41118
1F6POOL	F6RN37	2005/12/21	3/11/2011	1906	5.22	41970
1F6POOL	F6RN38	2005/12/21	3/11/2011	1906	5.22	42048
1F6POOL	F6RN39	2005/12/21	3/11/2011	1906	5.22	42166
1F6POOL	F6RN41	2005/12/21	3/11/2011	1906	5.22	40978
1F6POOL	F6RN42	2005/12/21	3/11/2011	1906	5.22	40981
1F6POOL	F6RN43	2005/12/21	3/11/2011	1906	5.22	41681
1F6POOL	F6RN44	2007/10/1	3/11/2011	1257	3.44	44252
1F6POOL	F6RN46	2007/10/1	3/11/2011	1257	3.44	45238
1F6POOL	F6RN47	2007/10/1	3/11/2011	1257	3.44	45292
1F6POOL	F6RN48	2007/10/1	3/11/2011	1257	3.44	44497
1F6POOL	F6RN50	2007/10/1	3/11/2011	1257	3.44	44643
1F6POOL	F6RN51	2007/10/1	3/11/2011	1257	3.44	42757
1F6POOL	F6RN52	2005/12/21	3/11/2011	1906	5.22	39901
1F6POOL	F6RN53	2005/12/21	3/11/2011	1906	5.22	40104
1F6POOL	F6RN55	2005/12/21	3/11/2011	1906	5.22	41901
1F6POOL	F6RN57	2005/12/21	3/11/2011	1906	5.22	40365
1F6POOL	F6RN59	2005/12/21	3/11/2011	1906	5.22	40642
1F6POOL	F6RN60	2005/12/21	3/11/2011	1906	5.22	41112
1F6POOL	F6RN61	2005/12/21	3/11/2011	1906	5.22	40427
1F6POOL	F6RN62	2005/12/21	3/11/2011	1906	5.22	40794
1F6POOL	F6RN63	2005/12/21	3/11/2011	1906	5.22	40666
1F6POOL	F6RN64	2005/12/21	3/11/2011	1906	5.22	40296
1F6POOL	F6RN65	2005/12/21	3/11/2011	1906	5.22	41430
1F6POOL	F6RN67	2007/10/1	3/11/2011	1257	3.44	46553
1F6POOL	F6RN68	2005/12/21	3/11/2011	1906	5.22	41750
1F6POOL	F6RN69	2007/10/1	3/11/2011	1257	3.44	41325
1F6POOL	F6RN70	2007/10/1	3/11/2011	1257	3.44	42056
1F6POOL	F6RN71	2007/10/1	3/11/2011	1257	3.44	41510
1F6POOL	F6R1	2005/12/21	3/11/2011	1906	5.22	40562
1F6POOL	F6R2	2005/12/21	3/11/2011	1906	5.22	40709
1F6POOL	F6R4	2005/12/21	3/11/2011	1906	5.22	40852
1F6POOL	F6R6	2005/12/21	3/11/2011	1906	5.22	40447
1F6POOL	F6R7	2005/12/21	3/11/2011	1906	5.22	40262
1F6POOL	F6R8	2005/12/21	3/11/2011	1906	5.22	40013
1F6POOL	F6R9	2007/10/1	3/11/2011	1257	3.44	45287
1F6POOL	F6R10	2005/12/21	3/11/2011	1906	5.22	40189
1F6POOL	F6R11	2007/10/1	3/11/2011	1257	3.44	42959
1F6POOL	F6R12	2007/10/1	3/11/2011	1257	3.44	41507
1F6POOL	F6R13	2007/10/1	3/11/2011	1257	3.44	43410

1F6POOL	F6R14	2007/10/1	3/11/2011	1257	3.44	43700
1F6POOL	F6R16	2007/10/1	3/11/2011	1257	3.44	43895
1F6POOL	F6R18	2007/10/1	3/11/2011	1257	3.44	44306
1F6POOL	F6R19	2007/10/1	3/11/2011	1257	3.44	43260
1F6POOL	F6R20	2007/10/1	3/11/2011	1257	3.44	43797
1F6POOL	F6R22	2007/10/1	3/11/2011	1257	3.44	45256
1F6POOL	F6R23	2005/12/21	3/11/2011	1906	5.22	40673
1F6POOL	F6R24	2007/10/1	3/11/2011	1257	3.44	44995
1F6POOL	F6R25	2007/10/1	3/11/2011	1257	3.44	44096
1F6POOL	F6R27	2007/10/1	3/11/2011	1257	3.44	45287
1F6POOL	F6R28	2007/10/1	3/11/2011	1257	3.44	40534
1F6POOL	F6R29	2007/10/1	3/11/2011	1257	3.44	39492
1F6POOL	F6R31	2007/10/1	3/11/2011	1257	3.44	40930
1F6POOL	F6R32	2007/10/1	3/11/2011	1257	3.44	39515
1F6POOL	F6R33	2007/10/1	3/11/2011	1257	3.44	40851
1F6POOL	F6R34	2007/10/1	3/11/2011	1257	3.44	41306
1F6POOL	F6R35	2007/10/1	3/11/2011	1257	3.44	39212
1F6POOL	F6R36	2007/10/1	3/11/2011	1257	3.44	39681
1F6POOL	F6R37	2005/12/21	3/11/2011	1906	5.22	39942
1F6POOL	F6R38	2005/12/21	3/11/2011	1906	5.22	42545
1F6POOL	F6R39	2007/10/1	3/11/2011	1257	3.44	41936
1F6POOL	F6R41	2007/10/1	3/11/2011	1257	3.44	44646
1F6POOL	F6R42	2005/12/21	3/11/2011	1906	5.22	40114
1F6POOL	F6R43	2007/10/1	3/11/2011	1257	3.44	42877
1F6POOL	F6R44	2005/12/21	3/11/2011	1906	5.22	40676
1F6POOL	F6R46	2007/10/1	3/11/2011	1257	3.44	39114
1F6POOL	F6R47	2007/10/1	3/11/2011	1257	3.44	41567
1F6POOL	F6R48	2007/10/1	3/11/2011	1257	3.44	39555
1F6POOL	F6R49	2007/10/1	3/11/2011	1257	3.44	43327
1F6POOL	F6R50	2007/10/1	3/11/2011	1257	3.44	41437
1F6POOL	F6R51	2007/10/1	3/11/2011	1257	3.44	42130
1F6POOL	F6R52	2007/10/1	3/11/2011	1257	3.44	43008
1F6POOL	F6R53	2005/12/21	3/11/2011	1906	5.22	41700
1F6POOL	F6R54	2005/12/21	3/11/2011	1906	5.22	41825
1F6POOL	F6R55	2005/12/21	3/11/2011	1906	5.22	41935
1F6POOL	F6R56	2005/12/21	3/11/2011	1906	5.22	41702
1F6POOL	F6R57	2007/10/1	3/11/2011	1257	3.44	42561
1F6POOL	F6R59	2007/10/1	3/11/2011	1257	3.44	42526
1F6POOL	F6R60	2007/10/1	3/11/2011	1257	3.44	43825
1F6POOL	F6R61	2007/10/1	3/11/2011	1257	3.44	47493
1F6POOL	F6P142	2005/12/21	3/11/2011	1906	5.22	40763
1F6POOL	F6P143	2005/12/21	3/11/2011	1906	5.22	40442
1F6POOL	F6SN1	2009/3/11	3/11/2011	730	2.00	47717
1F6POOL	F6SN2	2009/3/11	3/11/2011	730	2.00	46680
1F6POOL	F6SN3	2009/3/11	3/11/2011	730	2.00	46526
1F6POOL	F6SN4	2009/3/11	3/11/2011	730	2.00	47860
1F6POOL	F6SN5	2009/3/11	3/11/2011	730	2.00	45180
1F6POOL	F6SN6	2009/3/11	3/11/2011	730	2.00	45429
1F6POOL	F6SN7	2009/3/11	3/11/2011	730	2.00	45182
1F6POOL	F6SN8	2009/3/11	3/11/2011	730	2.00	45567
1F6POOL	F6SN9	2007/10/1	3/11/2011	1257	3.44	44115
1F6POOL	F6SN10	2007/10/1	3/11/2011	1257	3.44	44221
1F6POOL	F6SN11	2007/10/1	3/11/2011	1257	3.44	44201

1F6POOL	F6SN12	2007/10/1	3/11/2011	1257	3.44	44359
1F6POOL	F6SN13	2007/10/1	3/11/2011	1257	3.44	43511
1F6POOL	F6SN14	2007/10/1	3/11/2011	1257	3.44	43665
1F6POOL	F6SN15	2007/10/1	3/11/2011	1257	3.44	43600
1F6POOL	F6SN16	2007/10/1	3/11/2011	1257	3.44	43812
1F6POOL	F6SN17	2009/3/11	3/11/2011	730	2.00	44309
1F6POOL	F6SN18	2009/3/11	3/11/2011	730	2.00	44704
1F6POOL	F6SN19	2007/10/1	3/11/2011	1257	3.44	44411
1F6POOL	F6SN20	2009/3/11	3/11/2011	730	2.00	44626
1F6POOL	F6SN21	2009/3/11	3/11/2011	730	2.00	46014
1F6POOL	F6SN22	2009/3/11	3/11/2011	730	2.00	46107
1F6POOL	F6SN23	2009/3/11	3/11/2011	730	2.00	46122
1F6POOL	F6SN24	2009/3/11	3/11/2011	730	2.00	46246
1F6POOL	F6SN26	2007/10/1	3/11/2011	1257	3.44	43758
1F6POOL	F6SN28	2007/10/1	3/11/2011	1257	3.44	43500
1F6POOL	F6SN29	2007/10/1	3/11/2011	1257	3.44	43367
1F6POOL	F6SN31	2009/3/11	3/11/2011	730	2.00	45087
1F6POOL	F6SN32	2007/10/1	3/11/2011	1257	3.44	43892
1F6POOL	F6SN33	2007/10/1	3/11/2011	1257	3.44	43534
1F6POOL	F6SN34	2007/10/1	3/11/2011	1257	3.44	43546
1F6POOL	F6SN35	2007/10/1	3/11/2011	1257	3.44	43690
1F6POOL	F6SN36	2007/10/1	3/11/2011	1257	3.44	43810
1F6POOL	F6SN37	2007/10/1	3/11/2011	1257	3.44	43129
1F6POOL	F6SN38	2007/10/1	3/11/2011	1257	3.44	43575
1F6POOL	F6SN39	2007/10/1	3/11/2011	1257	3.44	43658
1F6POOL	F6SN40	2007/10/1	3/11/2011	1257	3.44	43759
1F6POOL	F6SN41	2007/10/1	3/11/2011	1257	3.44	43125
1F6POOL	F6SN42	2007/10/1	3/11/2011	1257	3.44	43288
1F6POOL	F6SN43	2007/10/1	3/11/2011	1257	3.44	43201
1F6POOL	F6SN44	2007/10/1	3/11/2011	1257	3.44	43575
1F6POOL	F6SN45	2009/3/11	3/11/2011	730	2.00	44974
1F6POOL	F6SN46	2007/10/1	3/11/2011	1257	3.44	44408
1F6POOL	F6SN47	2009/3/11	3/11/2011	730	2.00	45855
1F6POOL	F6SN48	2009/3/11	3/11/2011	730	2.00	45205
1F6POOL	F6SN49	2007/10/1	3/11/2011	1257	3.44	44111
1F6POOL	F6SN50	2007/10/1	3/11/2011	1257	3.44	44111
1F6POOL	F6SN51	2007/10/1	3/11/2011	1257	3.44	43820
1F6POOL	F6SN52	2009/3/11	3/11/2011	730	2.00	45071
1F6POOL	F6SN54	2007/10/1	3/11/2011	1257	3.44	43035
1F6POOL	F6SN55	2001/5/16	3/11/2011	3586	9.82	1974
1F6POOL	F6SN57	2009/3/11	3/11/2011	730	2.00	45564
1F6POOL	F6SN58	2009/3/11	3/11/2011	730	2.00	45926
1F6POOL	F6SN60	2009/3/11	3/11/2011	730	2.00	44748
1F6POOL	F6SN61	2009/3/11	3/11/2011	730	2.00	45332
1F6POOL	F6SN63	2009/3/11	3/11/2011	730	2.00	44570
1F6POOL	F6SN65	2009/3/11	3/11/2011	730	2.00	45630
1F6POOL	F6SN66	2009/3/11	3/11/2011	730	2.00	45134
1F6POOL	F6SN67	2009/3/11	3/11/2011	730	2.00	45697
1F6POOL	F6SN68	2009/3/11	3/11/2011	730	2.00	45758
1F6POOL	F6SN69	2009/3/11	3/11/2011	730	2.00	45808
1F6POOL	F6SN70	2009/3/11	3/11/2011	730	2.00	45946
1F6POOL	F6SN71	2009/3/11	3/11/2011	730	2.00	45576
1F6POOL	F6SN72	2007/10/1	3/11/2011	1257	3.44	43199

1F6POOL	F6SN73	2009/3/11	3/11/2011	730	2.00	45877
1F6POOL	F6SN74	2007/10/1	3/11/2011	1257	3.44	43177
1F6POOL	F6SN75	2009/3/11	3/11/2011	730	2.00	46634
1F6POOL	F6SN76	2007/10/1	3/11/2011	1257	3.44	43123
1F6POOL	F6SN77	2009/3/11	3/11/2011	730	2.00	44887
1F6POOL	F6SN78	2007/10/1	3/11/2011	1257	3.44	43084
1F6POOL	F6SN79	2009/3/11	3/11/2011	730	2.00	44964
1F6POOL	F6SN80	2009/3/11	3/11/2011	730	2.00	45144
1F6POOL	F6SN81	2009/3/11	3/11/2011	730	2.00	45307
1F6POOL	F6SN82	2007/10/1	3/11/2011	1257	3.44	43841
1F6POOL	F6SN83	2009/3/11	3/11/2011	730	2.00	45180
1F6POOL	F6SN84	2007/10/1	3/11/2011	1257	3.44	43174
1F6POOL	F6SN85	2009/3/11	3/11/2011	730	2.00	45551
1F6POOL	F6SN86	2009/3/11	3/11/2011	730	2.00	46107
1F6POOL	F6SN87	2009/3/11	3/11/2011	730	2.00	46383
1F6POOL	F6SN88	2009/3/11	3/11/2011	730	2.00	46006
1F6POOL	F6SN90	2009/3/11	3/11/2011	730	2.00	46273
1F6POOL	F6SN91	2009/3/11	3/11/2011	730	2.00	46051
1F6POOL	F6SN93	2007/10/1	3/11/2011	1257	3.44	43953
1F6POOL	F6SN94	2007/10/1	3/11/2011	1257	3.44	43055
1F6POOL	F6SN96	2007/10/1	3/11/2011	1257	3.44	43590
1F6POOL	F6SN98	2009/3/11	3/11/2011	730	2.00	46019
1F6POOL	F6SN99	2009/3/11	3/11/2011	730	2.00	45962
1F6POOL	F6SN101	2009/3/11	3/11/2011	730	2.00	45826
1F6POOL	F6SN102	2009/3/11	3/11/2011	730	2.00	46096
1F6POOL	F6SN103	2009/3/11	3/11/2011	730	2.00	45852
1F6POOL	F6P29	2003/9/30	3/11/2011	2719	7.45	42723
1F6POOL	F6G5	1993/9/15	3/11/2011	6386	17.50	34134
1F6POOL	F6G6	1993/9/15	3/11/2011	6386	17.50	34447
1F6POOL	F6G9	1993/9/15	3/11/2011	6386	17.50	34306
1F6POOL	F6G12	1993/9/15	3/11/2011	6386	17.50	34353
1F6POOL	F6G33	1993/9/15	3/11/2011	6386	17.50	34880
1F6POOL	F6G36	1993/9/15	3/11/2011	6386	17.50	35001
1F6POOL	F6RN3	2005/12/21	3/11/2011	1906	5.22	39764
1F6POOL	F6RN9	2005/12/21	3/11/2011	1906	5.22	40066
1F6POOL	F6RN40	2005/12/21	3/11/2011	1906	5.22	41954
1F6POOL	F6RN45	2007/10/1	3/11/2011	1257	3.44	44387
1F6POOL	F6RN72	2007/10/1	3/11/2011	1257	3.44	41841
1F6POOL	F6R40	2005/12/21	3/11/2011	1906	5.22	40808
1F6POOL	F6R45	2007/10/1	3/11/2011	1257	3.44	38757
1F6POOL	F6R78	2007/10/1	3/11/2011	1257	3.44	39681
1F6POOL	F6R83	2007/10/1	3/11/2011	1257	3.44	44224
1F6POOL	F6R114	2007/10/1	3/11/2011	1257	3.44	41291
1F6POOL	F6RN58	2005/12/21	3/11/2011	1906	5.22	40732
1F6POOL	F6G159	1993/9/15	3/11/2011	6386	17.50	34539
1F6POOL	F6B36	1988/2/20	3/11/2011	8420	23.07	28576
1F6POOL	F6B49	1988/2/20	3/11/2011	8420	23.07	28566
1F6POOL	F6J168	1998/2/12	3/11/2011	4775	13.08	34884
1F6POOL	F6R69	2007/10/1	3/11/2011	1257	3.44	42666
1F6POOL	F6P33	2003/9/30	3/11/2011	2719	7.45	42573
1F6POOL	F6P34	2003/9/30	3/11/2011	2719	7.45	43005
1F6POOL	F6P36	2003/9/30	3/11/2011	2719	7.45	43120
1F6POOL	F6P37	2003/9/30	3/11/2011	2719	7.45	42486

1F6POOL	F6P38	2003/9/30	3/11/2011	2719	7.45	43098
1F6POOL	F6P39	2003/9/30	3/11/2011	2719	7.45	42799
1F6POOL	F6P40	2003/9/30	3/11/2011	2719	7.45	42698
1F6POOL	F6P49	2005/12/21	3/11/2011	1906	5.22	41287
1F6POOL	F6P50	2005/12/21	3/11/2011	1906	5.22	41505
1F6POOL	F6P51	2007/10/1	3/11/2011	1257	3.44	43872
1F6POOL	F6P53	2007/10/1	3/11/2011	1257	3.44	43620
1F6POOL	F6P54	2007/10/1	3/11/2011	1257	3.44	44763
1F6POOL	F6P56	2007/10/1	3/11/2011	1257	3.44	44056
1F6POOL	F6P58	2003/9/30	3/11/2011	2719	7.45	42612
1F6POOL	F6P60	2003/9/30	3/11/2011	2719	7.45	43060
1F6POOL	F6P61	2005/12/21	3/11/2011	1906	5.22	42099
1F6POOL	F6P62	2005/12/21	3/11/2011	1906	5.22	42318
1F6POOL	F6P63	2005/12/21	3/11/2011	1906	5.22	40619
1F6POOL	F6P65	2005/12/21	3/11/2011	1906	5.22	41394
1F6POOL	F6P66	2005/12/21	3/11/2011	1906	5.22	41505
1F6POOL	F6P67	2005/12/21	3/11/2011	1906	5.22	41319
1F6POOL	F6P68	2005/12/21	3/11/2011	1906	5.22	41315
1F6POOL	F6P70	2003/9/30	3/11/2011	2719	7.45	43155
1F6POOL	F6P72	2003/9/30	3/11/2011	2719	7.45	43005
1F6POOL	F6P75	2003/9/30	3/11/2011	2719	7.45	43336
1F6POOL	F6P77	2005/12/21	3/11/2011	1906	5.22	40708
1F6POOL	F6P78	2005/12/21	3/11/2011	1906	5.22	40989
1F6POOL	F6P79	2005/12/21	3/11/2011	1906	5.22	42094
1F6POOL	F6P80	2005/12/21	3/11/2011	1906	5.22	40654
1F6POOL	F6P84	2003/9/30	3/11/2011	2719	7.45	43558
1F6POOL	F6P85	2005/12/21	3/11/2011	1906	5.22	41201
1F6POOL	F6P87	2005/12/21	3/11/2011	1906	5.22	41198
1F6POOL	F6P88	2005/12/21	3/11/2011	1906	5.22	41046
1F6POOL	F6P89	2007/10/1	3/11/2011	1257	3.44	42579
1F6POOL	F6P90	2007/10/1	3/11/2011	1257	3.44	42356
1F6POOL	F6P92	2007/10/1	3/11/2011	1257	3.44	43881
1F6POOL	F6P93	2005/12/21	3/11/2011	1906	5.22	40353
1F6POOL	F6P95	2005/12/21	3/11/2011	1906	5.22	40686
1F6POOL	F6P105	2005/12/21	3/11/2011	1906	5.22	40527
1F6POOL	F6P106	2005/12/21	3/11/2011	1906	5.22	40846
1F6POOL	F6P107	2005/12/21	3/11/2011	1906	5.22	40537
1F6POOL	F6P108	2005/12/21	3/11/2011	1906	5.22	40834
1F6POOL	F6P109	2005/12/21	3/11/2011	1906	5.22	40582
1F6POOL	F6P113	2003/9/30	3/11/2011	2719	7.45	42743
1F6POOL	F6P114	2003/9/30	3/11/2011	2719	7.45	43078
1F6POOL	F6P115	2003/9/30	3/11/2011	2719	7.45	42736
1F6POOL	F6P116	2003/9/30	3/11/2011	2719	7.45	43215
1F6POOL	F6P118	2003/9/30	3/11/2011	2719	7.45	42631
1F6POOL	F6P120	2003/9/30	3/11/2011	2719	7.45	42476
1F6POOL	F6P121	2005/12/21	3/11/2011	1906	5.22	41137
1F6POOL	F6P122	2005/12/21	3/11/2011	1906	5.22	41941
1F6POOL	F6P124	2005/12/21	3/11/2011	1906	5.22	40992
1F6POOL	F6P125	2005/12/21	3/11/2011	1906	5.22	41276
1F6POOL	F6P126	2005/12/21	3/11/2011	1906	5.22	42374
1F6POOL	F6P127	2005/12/21	3/11/2011	1906	5.22	41325
1F6POOL	F6P128	2005/12/21	3/11/2011	1906	5.22	41303
1F6POOL	F6P129	2003/9/30	3/11/2011	2719	7.45	42951

1F6POOL	F6P130	2003/9/30	3/11/2011	2719	7.45	43338
1F6POOL	F6P131	2003/9/30	3/11/2011	2719	7.45	43339
1F6POOL	F6P132	2003/9/30	3/11/2011	2719	7.45	43364
1F6POOL	F6P133	2003/9/30	3/11/2011	2719	7.45	43127
1F6POOL	F6P134	2003/9/30	3/11/2011	2719	7.45	43384
1F6POOL	F6P135	2003/9/30	3/11/2011	2719	7.45	42776
1F6POOL	F6P136	2003/9/30	3/11/2011	2719	7.45	42659
1F6POOL	F6R63	2007/10/1	3/11/2011	1257	3.44	42648
1F6POOL	F6R64	2007/10/1	3/11/2011	1257	3.44	47682
1F6POOL	F6R65	2007/10/1	3/11/2011	1257	3.44	44064
1F6POOL	F6R66	2007/10/1	3/11/2011	1257	3.44	44584
1F6POOL	F6R68	2007/10/1	3/11/2011	1257	3.44	43029
1F6POOL	F6G183	1993/9/15	3/11/2011	6386	17.50	34533
1F6POOL	F6R70	2005/12/21	3/11/2011	1906	5.22	41107
1F6POOL	F6J181	1998/2/12	3/11/2011	4775	13.08	34768
1F6POOL	F6J182	1998/2/12	3/11/2011	4775	13.08	34763
1F6POOL	F6J201	1998/2/12	3/11/2011	4775	13.08	34803
1F6POOL	F6J202	1998/2/12	3/11/2011	4775	13.08	34969
1F6POOL	F6J203	1998/2/12	3/11/2011	4775	13.08	35121
1F6POOL	F6J243	1998/2/12	3/11/2011	4775	13.08	34348
1F6POOL	F6J244	1998/2/12	3/11/2011	4775	13.08	34354
1F6POOL	F6K3	1998/2/12	3/11/2011	4775	13.08	36408
1F6POOL	F6K15	1998/2/12	3/11/2011	4775	13.08	34385
1F6POOL	F6K17	1998/2/12	3/11/2011	4775	13.08	34556
1F6POOL	F6K18	1998/2/12	3/11/2011	4775	13.08	34764
1F6POOL	F6K22	1998/2/12	3/11/2011	4775	13.08	35007
1F6POOL	F6K26	1998/2/12	3/11/2011	4775	13.08	34646
1F6POOL	F6K27	1998/2/12	3/11/2011	4775	13.08	34627
1F6POOL	F6R72	2007/10/1	3/11/2011	1257	3.44	42875
1F6POOL	F6R73	2007/10/1	3/11/2011	1257	3.44	44717
1F6POOL	F6R75	2007/10/1	3/11/2011	1257	3.44	44622
1F6POOL	F6R76	2007/10/1	3/11/2011	1257	3.44	44968
1F6POOL	F6R77	2007/10/1	3/11/2011	1257	3.44	39202
1F6POOL	F6R79	2007/10/1	3/11/2011	1257	3.44	39168
1F6POOL	F6R80	2007/10/1	3/11/2011	1257	3.44	39527
1F6POOL	F6R81	2005/12/21	3/11/2011	1906	5.22	40194
1F6POOL	F6R82	2005/12/21	3/11/2011	1906	5.22	40015
1F6POOL	F6R84	2007/10/1	3/11/2011	1257	3.44	43704
1F6POOL	F6R85	2007/10/1	3/11/2011	1257	3.44	43704
1F6POOL	F6R86	2007/10/1	3/11/2011	1257	3.44	43930
1F6POOL	F6R87	2007/10/1	3/11/2011	1257	3.44	47811
1F6POOL	F6R88	2007/10/1	3/11/2011	1257	3.44	43981
1F6POOL	F6R89	2007/10/1	3/11/2011	1257	3.44	42687
1F6POOL	F6R90	2007/10/1	3/11/2011	1257	3.44	44942
1F6POOL	F6R92	2005/12/21	3/11/2011	1906	5.22	42141
1F6POOL	F6R93	2007/10/1	3/11/2011	1257	3.44	42431
1F6POOL	F6R94	2007/10/1	3/11/2011	1257	3.44	42915
1F6POOL	F6R95	2007/10/1	3/11/2011	1257	3.44	45878
1F6POOL	F6R96	2007/10/1	3/11/2011	1257	3.44	44364
1F6POOL	F6R98	2005/12/21	3/11/2011	1906	5.22	39933
1F6POOL	F6R99	2007/10/1	3/11/2011	1257	3.44	43157
1F6POOL	F6R100	2005/12/21	3/11/2011	1906	5.22	39898
1F6POOL	F6R101	2007/10/1	3/11/2011	1257	3.44	43638

1F6POOL	F6R103	2007/10/1	3/11/2011	1257	3.44	42784
1F6POOL	F6R104	2007/10/1	3/11/2011	1257	3.44	44028
1F6POOL	F6R105	2007/10/1	3/11/2011	1257	3.44	45738
1F6POOL	F6R107	2007/10/1	3/11/2011	1257	3.44	43691
1F6POOL	F6R108	2007/10/1	3/11/2011	1257	3.44	46119
1F6POOL	F6R109	2007/10/1	3/11/2011	1257	3.44	42088
1F6POOL	F6R110	2007/10/1	3/11/2011	1257	3.44	42280
1F6POOL	F6R112	2007/10/1	3/11/2011	1257	3.44	42404
1F6POOL	F6R113	2007/10/1	3/11/2011	1257	3.44	40769
1F6POOL	F6R115	2007/10/1	3/11/2011	1257	3.44	39871
1F6POOL	F6R116	2007/10/1	3/11/2011	1257	3.44	41241
1F6POOL	F6RN49	2007/10/1	3/11/2011	1257	3.44	42665
1F6POOL	F6RN54	2005/12/21	3/11/2011	1906	5.22	40997
1F6POOL	F6R17	2007/10/1	3/11/2011	1257	3.44	44034
1F6POOL	F6R21	2007/10/1	3/11/2011	1257	3.44	42448
1F6POOL	F6R26	2005/12/21	3/11/2011	1906	5.22	39996
1F6POOL	F6R30	2007/10/1	3/11/2011	1257	3.44	40137
1F6POOL	F6R58	2007/10/1	3/11/2011	1257	3.44	43393
1F6POOL	F6R62	2007/10/1	3/11/2011	1257	3.44	47719
1F6POOL	F6R67	2007/10/1	3/11/2011	1257	3.44	43588
1F6POOL	F6R71	2007/10/1	3/11/2011	1257	3.44	41681
1F6POOL	F6R102	2007/10/1	3/11/2011	1257	3.44	43805
1F6POOL	F6R106	2007/10/1	3/11/2011	1257	3.44	45931
1F6POOL	F6R111	2007/10/1	3/11/2011	1257	3.44	41892
1F6POOL	F6B241	1988/2/20	3/11/2011	8420	23.07	28369
1F6POOL	F6B242	1988/2/20	3/11/2011	8420	23.07	33035
1F6POOL	F6B243	1988/2/20	3/11/2011	8420	23.07	32865
1F6POOL	F6B249	1988/2/20	3/11/2011	8420	23.07	32821
1F6POOL	F6K32	1998/2/12	3/11/2011	4775	13.08	34656
1F6POOL	F6K34	1998/2/12	3/11/2011	4775	13.08	35044
1F6POOL	F6B148	1988/2/20	3/11/2011	8420	23.07	32829
1F6POOL	F6B154	1988/2/20	3/11/2011	8420	23.07	32872
1F6POOL	F6B244	1988/2/20	3/11/2011	8420	23.07	28375
1F6POOL	F6B250	1988/2/20	3/11/2011	8420	23.07	32998
1F6POOL	F6J26	1999/7/25	3/11/2011	4247	11.64	35064
1F6POOL	F6J31	1999/7/25	3/11/2011	4247	11.64	35518
1F6POOL	F6K40	1998/2/12	3/11/2011	4775	13.08	34667
1F6POOL	F6K51	1998/2/12	3/11/2011	4775	13.08	35020
1F6POOL	F6K68	1998/2/12	3/11/2011	4775	13.08	35718
1F6POOL	F6K75	1998/2/12	3/11/2011	4775	13.08	34965
1F6POOL	F6K76	1998/2/12	3/11/2011	4775	13.08	34778
1F6POOL	F6K80	1998/2/12	3/11/2011	4775	13.08	34871
1F6POOL	F6K81	1998/2/12	3/11/2011	4775	13.08	34649
1F6POOL	F6K84	1998/2/12	3/11/2011	4775	13.08	35074
1F6POOL	F6K85	1998/2/12	3/11/2011	4775	13.08	34629
1F6POOL	F6K90	1998/2/12	3/11/2011	4775	13.08	34664
1F6POOL	F6K100	1998/2/12	3/11/2011	4775	13.08	34534
1F6POOL	F6K113	1998/2/12	3/11/2011	4775	13.08	35142
1F6POOL	F6K114	1998/2/12	3/11/2011	4775	13.08	35096
1F6POOL	F6K118	1998/2/12	3/11/2011	4775	13.08	35123
1F6POOL	F6K124	1998/2/12	3/11/2011	4775	13.08	35114
1F6POOL	F6K127	1998/2/12	3/11/2011	4775	13.08	36183
1F6POOL	F6K128	1998/2/12	3/11/2011	4775	13.08	34882

1F6POOL	F6K133	1998/2/12	3/11/2011	4775	13.08	34765
1F6POOL	F6K138	1998/2/12	3/11/2011	4775	13.08	34857
1F6POOL	F6K139	1998/2/12	3/11/2011	4775	13.08	34713
1F6POOL	F6RN1	2007/10/1	3/11/2011	1257	3.44	44230
1F6POOL	F6RN4	2005/12/21	3/11/2011	1906	5.22	40354
1F6POOL	F6RN5	2005/12/21	3/11/2011	1906	5.22	40729
1F6POOL	F6RN6	2005/12/21	3/11/2011	1906	5.22	40575
1F6POOL	F6RN7	2005/12/21	3/11/2011	1906	5.22	40232
1F6POOL	F6RN8	2005/12/21	3/11/2011	1906	5.22	40382
1F6POOL	F6RN10	2005/12/21	3/11/2011	1906	5.22	40656
1F6POOL	F6RN11	2005/12/21	3/11/2011	1906	5.22	39920
1F6POOL	F6RN12	2005/12/21	3/11/2011	1906	5.22	40896
1F6POOL	F6RN13	2005/12/21	3/11/2011	1906	5.22	41046
1F6POOL	F6UN165	2010/8/14	3/11/2011	209	0.57	44219
1F6POOL	F6UN166	2010/8/14	3/11/2011	209	0.57	44068
1F6POOL	F6UN167	2010/8/14	3/11/2011	209	0.57	43913
1F6POOL	F6UN168	2010/8/14	3/11/2011	209	0.57	43972
1F6POOL	F6UN169	2010/8/14	3/11/2011	209	0.57	43482
1F6POOL	F6UN170	2010/8/14	3/11/2011	209	0.57	43259
1F6POOL	F6UN171	2010/8/14	3/11/2011	209	0.57	43167
1F6POOL	F6UN172	2010/8/14	3/11/2011	209	0.57	43402
1F6POOL	F6UN149	2010/8/14	3/11/2011	209	0.57	45946
1F6POOL	F6UN152	2010/8/14	3/11/2011	209	0.57	46060
1F6POOL	F6UN154	2010/8/14	3/11/2011	209	0.57	48550
1F6POOL	F6UN36	2010/8/14	3/11/2011	209	0.57	46570
1F6POOL	F6UN37	2010/8/14	3/11/2011	209	0.57	44010
1F6POOL	F6UN38	2010/8/14	3/11/2011	209	0.57	43829
1F6POOL	F6UN39	2010/8/14	3/11/2011	209	0.57	43821
1F6POOL	F6UN40	2010/8/14	3/11/2011	209	0.57	43738
1F6POOL	F6UN53	2010/8/14	3/11/2011	209	0.57	48323
1F6POOL	F6UN54	2010/8/14	3/11/2011	209	0.57	48209
1F6POOL	F6UN55	2010/8/14	3/11/2011	209	0.57	48155
1F6POOL	F6UN56	2010/8/14	3/11/2011	209	0.57	48469
1F6POOL	F6UN57	2010/8/14	3/11/2011	209	0.57	46300
1F6POOL	F6UN58	2010/8/14	3/11/2011	209	0.57	45935
1F6POOL	F6UN59	2010/8/14	3/11/2011	209	0.57	45966
1F6POOL	F6UN60	2010/8/14	3/11/2011	209	0.57	46318
1F6POOL	F6UN65	2010/8/14	3/11/2011	209	0.57	46440
1F6POOL	F6UN66	2010/8/14	3/11/2011	209	0.57	46017
1F6POOL	F6UN67	2010/8/14	3/11/2011	209	0.57	46090
1F6POOL	F6UN68	2010/8/14	3/11/2011	209	0.57	46467
1F6POOL	F6TN21	2009/3/11	3/11/2011	730	2.00	44117
1F6POOL	F6TN22	2009/3/11	3/11/2011	730	2.00	44024
1F6POOL	F6TN23	2009/3/11	3/11/2011	730	2.00	44189
1F6POOL	F6TN25	2010/8/14	3/11/2011	209	0.57	43279
1F6POOL	F6TN26	2010/8/14	3/11/2011	209	0.57	43373
1F6POOL	F6TN28	2010/8/14	3/11/2011	209	0.57	43982
1F6POOL	F6TN30	2010/8/14	3/11/2011	209	0.57	43360
1F6POOL	F6TN31	2010/8/14	3/11/2011	209	0.57	43615
1F6POOL	F6TN33	2010/8/14	3/11/2011	209	0.57	45177
1F6POOL	F6TN34	2010/8/14	3/11/2011	209	0.57	45702
1F6POOL	F6TN36	2010/8/14	3/11/2011	209	0.57	45471
1F6POOL	F6TN37	2010/8/14	3/11/2011	209	0.57	46287

1F6POOL	F6TN38	2010/8/14	3/11/2011	209	0.57	46319
1F6POOL	F6TN39	2010/8/14	3/11/2011	209	0.57	46241
1F6POOL	F6TN40	2010/8/14	3/11/2011	209	0.57	46571
1F6POOL	F6TN41	2009/3/11	3/11/2011	730	2.00	43767
1F6POOL	F6TN42	2009/3/11	3/11/2011	730	2.00	44075
1F6POOL	F6TN43	2009/3/11	3/11/2011	730	2.00	44089
1F6POOL	F6TN44	2009/3/11	3/11/2011	730	2.00	44123
1F6POOL	F6TN45	2009/3/11	3/11/2011	730	2.00	44545
1F6POOL	F6TN46	2009/3/11	3/11/2011	730	2.00	44391
1F6POOL	F6TN47	2009/3/11	3/11/2011	730	2.00	44506
1F6POOL	F6TN48	2009/3/11	3/11/2011	730	2.00	44946
1F6POOL	F6TN49	2009/3/11	3/11/2011	730	2.00	44035
1F6POOL	F6TN50	2009/3/11	3/11/2011	730	2.00	44167
1F6POOL	F6TN51	2009/3/11	3/11/2011	730	2.00	44357
1F6POOL	F6TN52	2009/3/11	3/11/2011	730	2.00	44708
1F6POOL	F6TN53	2010/8/14	3/11/2011	209	0.57	45667
1F6POOL	F6TN54	2010/8/14	3/11/2011	209	0.57	45741
1F6POOL	F6TN55	2010/8/14	3/11/2011	209	0.57	45675
1F6POOL	F6TN56	2010/8/14	3/11/2011	209	0.57	46146
1F6POOL	F6TN57	2010/8/14	3/11/2011	209	0.57	47433
1F6POOL	F6TN58	2010/8/14	3/11/2011	209	0.57	47665
1F6POOL	F6TN60	2010/8/14	3/11/2011	209	0.57	47697
1F6POOL	F6TN61	2010/8/14	3/11/2011	209	0.57	48212
1F6POOL	F6TN63	2010/8/14	3/11/2011	209	0.57	48137
1F6POOL	F6TN35	2010/8/14	3/11/2011	209	0.57	45302
1F6POOL	F6TN59	2010/8/14	3/11/2011	209	0.57	47668
1F6POOL	F6TN62	2010/8/14	3/11/2011	209	0.57	48334
1F6POOL	F6TN65	2010/8/14	3/11/2011	209	0.57	47285
1F6POOL	F6TN68	2010/8/14	3/11/2011	209	0.57	47697
1F6POOL	F6TN70	2010/8/14	3/11/2011	209	0.57	47582
1F6POOL	F6TN95	2010/8/14	3/11/2011	209	0.57	46709
1F6POOL	F6TN97	2009/3/11	3/11/2011	730	2.00	45834
1F6POOL	F6TN100	2009/3/11	3/11/2011	730	2.00	45748
1F6POOL	F6TN103	2009/3/11	3/11/2011	730	2.00	43939
1F6POOL	F6TN106	2010/8/14	3/11/2011	209	0.57	45105
1F6POOL	F6TN139	2009/3/11	3/11/2011	730	2.00	44878
1F6POOL	F6UN129	2010/8/14	3/11/2011	209	0.57	43967
1F6POOL	F6UN130	2010/8/14	3/11/2011	209	0.57	43759
1F6POOL	F6UN131	2010/8/14	3/11/2011	209	0.57	43878
1F6POOL	F6UN132	2010/8/14	3/11/2011	209	0.57	43906
1F6POOL	F6TN77	2010/8/14	3/11/2011	209	0.57	43751
1F6POOL	F6TN78	2010/8/14	3/11/2011	209	0.57	43884
1F6POOL	F6TN79	2010/8/14	3/11/2011	209	0.57	43607
1F6POOL	F6TN80	2010/8/14	3/11/2011	209	0.57	43823
1F6POOL	F6TN81	2010/8/14	3/11/2011	209	0.57	43453
1F6POOL	F6TN82	2010/8/14	3/11/2011	209	0.57	43614
1F6POOL	F6TN83	2010/8/14	3/11/2011	209	0.57	43579
1F6POOL	F6TN84	2010/8/14	3/11/2011	209	0.57	43651
1F6POOL	F6TN85	2009/3/11	3/11/2011	730	2.00	44843
1F6POOL	F6TN86	2009/3/11	3/11/2011	730	2.00	44783
1F6POOL	F6TN87	2009/3/11	3/11/2011	730	2.00	44652
1F6POOL	F6TN88	2009/3/11	3/11/2011	730	2.00	44994
1F6POOL	F6TN89	2010/8/14	3/11/2011	209	0.57	47714

1F6POOL	F6TN90	2010/8/14	3/11/2011	209	0.57	47900
1F6POOL	F6TN91	2010/8/14	3/11/2011	209	0.57	47736
1F6POOL	F6TN92	2010/8/14	3/11/2011	209	0.57	47706
1F6POOL	F6TN93	2010/8/14	3/11/2011	209	0.57	46833
1F6POOL	F6TN94	2010/8/14	3/11/2011	209	0.57	47173
1F6POOL	F6TN96	2010/8/14	3/11/2011	209	0.57	47109
1F6POOL	F6TN98	2009/3/11	3/11/2011	730	2.00	45923
1F6POOL	F6TN99	2009/3/11	3/11/2011	730	2.00	45732
1F6POOL	F6TN101	2009/3/11	3/11/2011	730	2.00	43945
1F6POOL	F6TN102	2009/3/11	3/11/2011	730	2.00	43991
1F6POOL	F6TN104	2009/3/11	3/11/2011	730	2.00	44164
1F6POOL	F6TN105	2010/8/14	3/11/2011	209	0.57	45001
1F6POOL	F6TN107	2010/8/14	3/11/2011	209	0.57	44847
1F6POOL	F6TN108	2010/8/14	3/11/2011	209	0.57	45505
1F6POOL	F6TN73	2009/3/11	3/11/2011	730	2.00	43814
1F6POOL	F6UN150	2010/8/14	3/11/2011	209	0.57	45452
1F6POOL	F6UN151	2010/8/14	3/11/2011	209	0.57	45571
1F6POOL	F6UN153	2010/8/14	3/11/2011	209	0.57	48794
1F6POOL	F6UN155	2010/8/14	3/11/2011	209	0.57	48577
1F6POOL	F6UN156	2010/8/14	3/11/2011	209	0.57	48660
1F6POOL	F6TN141	2010/8/14	3/11/2011	209	0.57	44902
1F6POOL	F6TN144	2010/8/14	3/11/2011	209	0.57	45083
1F6POOL	F6TN147	2010/8/14	3/11/2011	209	0.57	43491
1F6POOL	F6TN150	2009/3/11	3/11/2011	730	2.00	45435
1F6POOL	F6TN175	2010/8/14	3/11/2011	209	0.57	44989
1F6POOL	F6TN178	2010/8/14	3/11/2011	209	0.57	48901
1F6POOL	F6TN180	2010/8/14	3/11/2011	209	0.57	49021
1F6POOL	F6TN32	2010/8/14	3/11/2011	209	0.57	43865
1F6POOL	F6TN152	2009/3/11	3/11/2011	730	2.00	45362
1F6POOL	F6TN153	2010/8/14	3/11/2011	209	0.57	45658
1F6POOL	F6TN154	2010/8/14	3/11/2011	209	0.57	45733
1F6POOL	F6TN155	2010/8/14	3/11/2011	209	0.57	45613
1F6POOL	F6TN156	2010/8/14	3/11/2011	209	0.57	45936
1F6POOL	F6TN157	2010/8/14	3/11/2011	209	0.57	46512
1F6POOL	F6TN158	2010/8/14	3/11/2011	209	0.57	46836
1F6POOL	F6TN159	2010/8/14	3/11/2011	209	0.57	46528
1F6POOL	F6TN160	2010/8/14	3/11/2011	209	0.57	46911
1F6POOL	F6TN161	2010/8/14	3/11/2011	209	0.57	44719
1F6POOL	F6TN162	2010/8/14	3/11/2011	209	0.57	44584
1F6POOL	F6TN163	2010/8/14	3/11/2011	209	0.57	44887
1F6POOL	F6TN164	2010/8/14	3/11/2011	209	0.57	44919
1F6POOL	F6TN165	2010/8/14	3/11/2011	209	0.57	45876
1F6POOL	F6TN166	2010/8/14	3/11/2011	209	0.57	45882
1F6POOL	F6TN167	2010/8/14	3/11/2011	209	0.57	45997
1F6POOL	F6TN168	2010/8/14	3/11/2011	209	0.57	46356
1F6POOL	F6TN169	2010/8/14	3/11/2011	209	0.57	44816
1F6POOL	F6TN170	2010/8/14	3/11/2011	209	0.57	44889
1F6POOL	F6TN171	2010/8/14	3/11/2011	209	0.57	44823
1F6POOL	F6TN172	2010/8/14	3/11/2011	209	0.57	44834
1F6POOL	F6TN173	2010/8/14	3/11/2011	209	0.57	45004
1F6POOL	F6TN174	2010/8/14	3/11/2011	209	0.57	45313
1F6POOL	F6TN176	2010/8/14	3/11/2011	209	0.57	45508
1F6POOL	F6TN177	2010/8/14	3/11/2011	209	0.57	48753

1F6POOL	F6TN179	2010/8/14	3/11/2011	209	0.57	48719
1F6POOL	F6TN24	2009/3/11	3/11/2011	730	2.00	44409
1F6POOL	F6TN27	2010/8/14	3/11/2011	209	0.57	43689
1F6POOL	F6TN29	2010/8/14	3/11/2011	209	0.57	43477
1F6POOL	F6TN151	2009/3/11	3/11/2011	730	2.00	45408
1F6POOL	F6TN2	2009/3/11	3/11/2011	730	2.00	43693
1F6POOL	F6TN3	2009/3/11	3/11/2011	730	2.00	43884
1F6POOL	F6TN4	2009/3/11	3/11/2011	730	2.00	43989
1F6POOL	F6TN5	2010/8/14	3/11/2011	209	0.57	43180
1F6POOL	F6TN6	2010/8/14	3/11/2011	209	0.57	43056
1F6POOL	F6TN7	2010/8/14	3/11/2011	209	0.57	43338
1F6POOL	F6TN8	2010/8/14	3/11/2011	209	0.57	43321
1F6POOL	F6TN9	2010/8/14	3/11/2011	209	0.57	44674
1F6POOL	F6TN10	2010/8/14	3/11/2011	209	0.57	44700
1F6POOL	F6TN11	2010/8/14	3/11/2011	209	0.57	44926
1F6POOL	F6TN12	2010/8/14	3/11/2011	209	0.57	45009
1F6POOL	F6TN13	2010/8/14	3/11/2011	209	0.57	45750
1F6POOL	F6TN14	2010/8/14	3/11/2011	209	0.57	45725
1F6POOL	F6TN15	2010/8/14	3/11/2011	209	0.57	45906
1F6POOL	F6TN16	2010/8/14	3/11/2011	209	0.57	45696
1F6POOL	F6TN17	2010/8/14	3/11/2011	209	0.57	43060
1F6POOL	F6TN18	2010/8/14	3/11/2011	209	0.57	43070
1F6POOL	F6TN19	2010/8/14	3/11/2011	209	0.57	43194
1F6POOL	F6TN20	2010/8/14	3/11/2011	209	0.57	43323
1F6POOL	F6TN1	2009/3/11	3/11/2011	730	2.00	44073
1F6POOL	F6TN110	2009/3/11	3/11/2011	730	2.00	46194
1F6POOL	F6TN111	2009/3/11	3/11/2011	730	2.00	46104
1F6POOL	F6TN112	2009/3/11	3/11/2011	730	2.00	46132
1F6POOL	F6TN109	2009/3/11	3/11/2011	730	2.00	45970
1F6POOL	F6TN117	2010/8/14	3/11/2011	209	0.57	43504
1F6POOL	F6TN118	2010/8/14	3/11/2011	209	0.57	43581
1F6POOL	F6TN119	2010/8/14	3/11/2011	209	0.57	43640
1F6POOL	F6TN120	2010/8/14	3/11/2011	209	0.57	43809
1F6POOL	F6TN121	2010/8/14	3/11/2011	209	0.57	44942
1F6POOL	F6TN122	2010/8/14	3/11/2011	209	0.57	44813
1F6POOL	F6TN123	2010/8/14	3/11/2011	209	0.57	44924
1F6POOL	F6TN124	2010/8/14	3/11/2011	209	0.57	45040
1F6POOL	F6TN125	2009/3/11	3/11/2011	730	2.00	45225
1F6POOL	F6TN126	2009/3/11	3/11/2011	730	2.00	45220
1F6POOL	F6TN127	2009/3/11	3/11/2011	730	2.00	45108
1F6POOL	F6TN128	2009/3/11	3/11/2011	730	2.00	45239
1F6POOL	F6TN129	2010/8/14	3/11/2011	209	0.57	47669
1F6POOL	F6TN130	2010/8/14	3/11/2011	209	0.57	47434
1F6POOL	F6TN131	2010/8/14	3/11/2011	209	0.57	47510
1F6POOL	F6TN132	2010/8/14	3/11/2011	209	0.57	47703
1F6POOL	F6TN133	2010/8/14	3/11/2011	209	0.57	46171
1F6POOL	F6TN134	2010/8/14	3/11/2011	209	0.57	46368
1F6POOL	F6TN135	2010/8/14	3/11/2011	209	0.57	46340
1F6POOL	F6TN136	2010/8/14	3/11/2011	209	0.57	46878
1F6POOL	F6TN137	2009/3/11	3/11/2011	730	2.00	45028
1F6POOL	F6TN138	2009/3/11	3/11/2011	730	2.00	45076
1F6POOL	F6TN140	2009/3/11	3/11/2011	730	2.00	45289
1F6POOL	F6TN142	2010/8/14	3/11/2011	209	0.57	45227

1F6POOL	F6TN143	2010/8/14	3/11/2011	209	0.57	44800
1F6POOL	F6TN146	2010/8/14	3/11/2011	209	0.57	43458
1F6POOL	F6TN148	2010/8/14	3/11/2011	209	0.57	43647
1F6POOL	F6TN149	2009/3/11	3/11/2011	730	2.00	45325
1F6POOL	F6TN116	2010/8/14	3/11/2011	209	0.57	43004
1F6POOL	F6TN74	2009/3/11	3/11/2011	730	2.00	43929
1F6POOL	F6TN75	2009/3/11	3/11/2011	730	2.00	43859
1F6POOL	F6TN76	2009/3/11	3/11/2011	730	2.00	44137
1F6POOL	F6TN64	2010/8/14	3/11/2011	209	0.57	48730
1F6POOL	F6TN66	2010/8/14	3/11/2011	209	0.57	47290
1F6POOL	F6TN67	2010/8/14	3/11/2011	209	0.57	47167
1F6POOL	F6TN69	2010/8/14	3/11/2011	209	0.57	47577
1F6POOL	F6TN71	2010/8/14	3/11/2011	209	0.57	47684
1F6POOL	F6TN72	2010/8/14	3/11/2011	209	0.57	47910
1F6POOL	F6UN1	2010/8/14	3/11/2011	209	0.57	46180
1F6POOL	F6UN2	2010/8/14	3/11/2011	209	0.57	46013
1F6POOL	F6UN3	2010/8/14	3/11/2011	209	0.57	46032
1F6POOL	F6UN4	2010/8/14	3/11/2011	209	0.57	46099
1F6POOL	F6UN16	2010/8/14	3/11/2011	209	0.57	43046
1F6POOL	F6UN17	2010/8/14	3/11/2011	209	0.57	46082
1F6POOL	F6UN18	2010/8/14	3/11/2011	209	0.57	45640
1F6POOL	F6UN19	2010/8/14	3/11/2011	209	0.57	45686
1F6POOL	F6UN20	2010/8/14	3/11/2011	209	0.57	46107
1F6POOL	F6UN21	2010/8/14	3/11/2011	209	0.57	44824
1F6POOL	F6UN22	2010/8/14	3/11/2011	209	0.57	44461
1F6POOL	F6UN23	2010/8/14	3/11/2011	209	0.57	44585
1F6POOL	F6UN24	2010/8/14	3/11/2011	209	0.57	44782
1F6POOL	F6UN25	2010/8/14	3/11/2011	209	0.57	43154
1F6POOL	F6UN26	2010/8/14	3/11/2011	209	0.57	43083
1F6POOL	F6UN28	2010/8/14	3/11/2011	209	0.57	43021
1F6POOL	F6UN33	2010/8/14	3/11/2011	209	0.57	46593
1F6POOL	F6UN34	2010/8/14	3/11/2011	209	0.57	46477
1F6POOL	F6UN35	2010/8/14	3/11/2011	209	0.57	46496
1F6POOL	F6ABN101					
1F6POOL	F6ABN102					
1F6POOL	F6ABN103					
1F6POOL	F6ABN104					
1F6POOL	F6ABN105					
1F6POOL	F6ABN106					
1F6POOL	F6ABN107					
1F6POOL	F6ABN108					
1F6POOL	F6ABN109					
1F6POOL	F6ABN110					
1F6POOL	F6ABN111					
1F6POOL	F6ABN112					
1F6POOL	F6ABN113					
1F6POOL	F6ABN114					
1F6POOL	F6ABN115					
1F6POOL	F6ABN116					
1F6POOL	F6ABN117					
1F6POOL	F6ABN118					
1F6POOL	F6ABN119					
1F6POOL	F6ABN120					

1F6POOL	F6ABN121
1F6POOL	F6ABN122
1F6POOL	F6ABN123
1F6POOL	F6ABN124
1F6POOL	F6ABN125
1F6POOL	F6ABN126
1F6POOL	F6ABN127
1F6POOL	F6ABN128
1F6POOL	F6ABN129
1F6POOL	F6ABN130
1F6POOL	F6ABN131
1F6POOL	F6ABN132
1F6POOL	F6ABN133
1F6POOL	F6ABN134
1F6POOL	F6ABN135
1F6POOL	F6ABN136
1F6POOL	F6ABN137
1F6POOL	F6ABN138
1F6POOL	F6ABN139
1F6POOL	F6ABN140
1F6POOL	F6ABN141
1F6POOL	F6ABN142
1F6POOL	F6ABN143
1F6POOL	F6ABN144
1F6POOL	F6ABN145
1F6POOL	F6ABN146
1F6POOL	F6ABN147
1F6POOL	F6ABN148
1F6POOL	F6ABN149
1F6POOL	F6ABN150
1F6POOL	F6ABN151
1F6POOL	F6ABN152
1F6POOL	F6ABN153
1F6POOL	F6ABN154
1F6POOL	F6ABN155
1F6POOL	F6ABN156
1F6POOL	F6ABN157
1F6POOL	F6ABN158
1F6POOL	F6ABN159
1F6POOL	F6ABN160
1F6POOL	F6ABN161
1F6POOL	F6ABN162
1F6POOL	F6ABN163
1F6POOL	F6ABN164

Unit	Fuel ID	Shutdown Date	Earthquake Date	Cooling Duration (Days)	Cooling Duration (Yeas)	Burnup	燃焼度
						MAX=	46568
						MIN=	21123
						AVE=	32635.202
1FPPOOL	F1J19	1F1	1993/9/10	3/11/2011	6391	17.51	30406
1FPPOOL	F1J20	1F1	1993/9/10	3/11/2011	6391	17.51	30406
1FPPOOL	F1J10	1F1	1993/9/10	3/11/2011	6391	17.51	31763
1FPPOOL	F1J13	1F1	1993/9/10	3/11/2011	6391	17.51	31578
1FPPOOL	F1J30	1F1	1993/9/10	3/11/2011	6391	17.51	31763
1FPPOOL	F1J4	1F1	1993/9/10	3/11/2011	6391	17.51	31708
1FPPOOL	F1J21	1F1	1993/9/10	3/11/2011	6391	17.51	30277
1FPPOOL	F1J33	1F1	1993/9/10	3/11/2011	6391	17.51	31708
1FPPOOL	F1J27	1F1	1993/9/10	3/11/2011	6391	17.51	31763
1FPPOOL	F1J36	1F1	1993/9/10	3/11/2011	6391	17.51	30972
1FPPOOL	F1J37	1F1	1993/9/10	3/11/2011	6391	17.51	34729
1FPPOOL	F1J38	1F1	1993/9/10	3/11/2011	6391	17.51	34729
1FPPOOL	F1J34	1F1	1993/9/10	3/11/2011	6391	17.51	31708
1FPPOOL	F1J35	1F1	1993/9/10	3/11/2011	6391	17.51	30972
1FPPOOL	F1J39	1F1	1993/9/10	3/11/2011	6391	17.51	31097
1FPPOOL	F1J22	1F1	1993/9/10	3/11/2011	6391	17.51	30277
1FPPOOL	F1J28	1F1	1993/9/10	3/11/2011	6391	17.51	31461
1FPPOOL	F1J16	1F1	1993/9/10	3/11/2011	6391	17.51	30277
1FPPOOL	F1J17	1F1	1993/9/10	3/11/2011	6391	17.51	30406
1FPPOOL	F1J14	1F1	1993/9/10	3/11/2011	6391	17.51	31578
1FPPOOL	F1J7	1F1	1993/9/10	3/11/2011	6391	17.51	31763
1FPPOOL	F1J8	1F1	1993/9/10	3/11/2011	6391	17.51	31461
1FPPOOL	F1J15	1F1	1993/9/10	3/11/2011	6391	17.51	30277
1FPPOOL	F1J40	1F1	1993/9/10	3/11/2011	6391	17.51	31097
1FPPOOL	F1J1	1F1	1993/9/10	3/11/2011	6391	17.51	30972
1FPPOOL	F1J18	1F1	1993/9/10	3/11/2011	6391	17.51	30406
1FPPOOL	F1J23	1F1	1993/9/10	3/11/2011	6391	17.51	31578
1FPPOOL	F1J24	1F1	1993/9/10	3/11/2011	6391	17.51	31578
1FPPOOL	F1J9	1F1	1993/9/10	3/11/2011	6391	17.51	31461
1FPPOOL	F1J41	1F1	1993/9/10	3/11/2011	6391	17.51	32824
1FPPOOL	F1J42	1F1	1993/9/10	3/11/2011	6391	17.51	32824
1FPPOOL	F1J61	1F1	1993/9/10	3/11/2011	6391	17.51	31260
1FPPOOL	F1J29	1F1	1993/9/10	3/11/2011	6391	17.51	31461
1FPPOOL	F1J2	1F1	1993/9/10	3/11/2011	6391	17.51	30972
1FPPOOL	F1J3	1F1	1993/9/10	3/11/2011	6391	17.51	31708
1FPPOOL	F1K19	1F1	1993/9/10	3/11/2011	6391	17.51	32059
1FPPOOL	F1K44	1F1	1995/4/10	3/11/2011	5814	15.93	31072
1FPPOOL	F1K48	1F1	1995/4/10	3/11/2011	5814	15.93	29017
1FPPOOL	F1K36	1F1	1993/9/10	3/11/2011	6391	17.51	33145
1FPPOOL	F1K37	1F1	1995/4/10	3/11/2011	5814	15.93	28774
1FPPOOL	F1K38	1F1	1995/4/10	3/11/2011	5814	15.93	28787
1FPPOOL	F1J52	1F1	1993/9/10	3/11/2011	6391	17.51	34635
1FPPOOL	F1J57	1F1	1993/9/10	3/11/2011	6391	17.51	31435
1FPPOOL	F1J58	1F1	1993/9/10	3/11/2011	6391	17.51	31435
1FPPOOL	F1J63	1F1	1993/9/10	3/11/2011	6391	17.51	32824
1FPPOOL	F1J46	1F1	1993/9/10	3/11/2011	6391	17.51	32527
1FPPOOL	F1K10	1F1	1993/9/10	3/11/2011	6391	17.51	33284
1FPPOOL	F1K11	1F1	1993/9/10	3/11/2011	6391	17.51	31463

1FPPOOL	F1K52	1F1	1995/4/10	3/11/2011	5814	15.93	29252
1FPPOOL	F1J66	1F1	1993/9/10	3/11/2011	6391	17.51	31097
1FPPOOL	F1K24	1F1	1993/9/10	3/11/2011	6391	17.51	33995
1FPPOOL	F1K25	1F1	1993/9/10	3/11/2011	6391	17.51	31463
1FPPOOL	F1K30	1F1	1993/9/10	3/11/2011	6391	17.51	33274
1FPPOOL	F1K16	1F1	1993/9/10	3/11/2011	6391	17.51	30774
1FPPOOL	F1K20	1F1	1993/9/10	3/11/2011	6391	17.51	30774
1FPPOOL	F1K45	1F1	1995/4/10	3/11/2011	5814	15.93	31336
1FPPOOL	F1K53	1F1	1995/4/10	3/11/2011	5814	15.93	29255
1FPPOOL	F1J53	1F1	1993/9/10	3/11/2011	6391	17.51	34635
1FPPOOL	F1J59	1F1	1993/9/10	3/11/2011	6391	17.51	32527
1FPPOOL	F1K58	1F1	1993/9/10	3/11/2011	6391	17.51	29223
1FPPOOL	F1J44	1F1	1993/9/10	3/11/2011	6391	17.51	31260
1FPPOOL	F1J45	1F1	1993/9/10	3/11/2011	6391	17.51	31260
1FPPOOL	F1K6	1F1	1993/9/10	3/11/2011	6391	17.51	31429
1FPPOOL	F1J56	1F1	1993/9/10	3/11/2011	6391	17.51	34635
1FPPOOL	F1J67	1F1	1993/9/10	3/11/2011	6391	17.51	34729
1FPPOOL	F1J68	1F1	1993/9/10	3/11/2011	6391	17.51	34729
1FPPOOL	F1K26	1F1	1993/9/10	3/11/2011	6391	17.51	31463
1FPPOOL	F1K12	1F1	1993/9/10	3/11/2011	6391	17.51	31463
1FPPOOL	F1K31	1F1	1993/9/10	3/11/2011	6391	17.51	31429
1FPPOOL	F1K54	1F1	1995/4/10	3/11/2011	5814	15.93	25516
1FPPOOL	F1K55	1F1	1993/9/10	3/11/2011	6391	17.51	29223
1FPPOOL	F1K21	1F1	1993/9/10	3/11/2011	6391	17.51	30774
1FPPOOL	F1K61	1F1	1995/4/10	3/11/2011	5814	15.93	31915
1FPPOOL	F1K46	1F1	1995/4/10	3/11/2011	5814	15.93	31338
1FPPOOL	F1K51	1F1	1995/4/10	3/11/2011	5814	15.93	25518
1FPPOOL	F1K41	1F1	1993/9/10	3/11/2011	6391	17.51	29456
1FPPOOL	F1K42	1F1	1993/9/10	3/11/2011	6391	17.51	29456
1FPPOOL	F1K39	1F1	1995/4/10	3/11/2011	5814	15.93	28785
1FPPOOL	F1J50	1F1	1993/9/10	3/11/2011	6391	17.51	30859
1FPPOOL	F1K34	1F1	1993/9/10	3/11/2011	6391	17.51	31429
1FPPOOL	F1K40	1F1	1995/4/10	3/11/2011	5814	15.93	28778
1FPPOOL	F1K1	1F1	1993/9/10	3/11/2011	6391	17.51	33145
1FPPOOL	F1K7	1F1	1993/9/10	3/11/2011	6391	17.51	33274
1FPPOOL	F1K8	1F1	1993/9/10	3/11/2011	6391	17.51	33274
1FPPOOL	F1K59	1F1	1995/4/10	3/11/2011	5814	15.93	25829
1FPPOOL	F1J47	1F1	1993/9/10	3/11/2011	6391	17.51	31435
1FPPOOL	F1J48	1F1	1993/9/10	3/11/2011	6391	17.51	31435
1FPPOOL	F1K60	1F1	1995/4/10	3/11/2011	5814	15.93	31906
1FPPOOL	F1K27	1F1	1993/9/10	3/11/2011	6391	17.51	33284
1FPPOOL	F1K28	1F1	1993/9/10	3/11/2011	6391	17.51	33284
1FPPOOL	F1K13	1F1	1993/9/10	3/11/2011	6391	17.51	33995
1FPPOOL	F1K22	1F1	1993/9/10	3/11/2011	6391	17.51	32059
1FPPOOL	F1K43	1F1	1995/4/10	3/11/2011	5814	15.93	29019
1FPPOOL	F1J51	1F1	1993/9/10	3/11/2011	6391	17.51	30859
1FPPOOL	F1K47	1F1	1995/4/10	3/11/2011	5814	15.93	31088
1FPPOOL	F1K35	1F1	1993/9/10	3/11/2011	6391	17.51	33145
1FPPOOL	F1K17	1F1	1993/9/10	3/11/2011	6391	17.51	30774
1FPPOOL	F1K18	1F1	1993/9/10	3/11/2011	6391	17.51	32059
1FPPOOL	F1K62	1F1	1995/4/10	3/11/2011	5814	15.93	25835
1FPPOOL	F1J54	1F1	1993/9/10	3/11/2011	6391	17.51	30859
1FPPOOL	F1J55	1F1	1993/9/10	3/11/2011	6391	17.51	30859

1FPPOOL	F1K14	1F1	1993/9/10	3/11/2011	6391	17.51	33995
1FPPOOL	F1K15	1F1	1993/9/10	3/11/2011	6391	17.51	32059
1FPPOOL	F1J49	1F1	1993/9/10	3/11/2011	6391	17.51	34635
1FPPOOL	F1K2	1F1	1993/9/10	3/11/2011	6391	17.51	33145
1FPPOOL	F1K3	1F1	1993/9/10	3/11/2011	6391	17.51	31429
1FPPOOL	F1K9	1F1	1993/9/10	3/11/2011	6391	17.51	33284
1FPPOOL	F1J60	1F1	1993/9/10	3/11/2011	6391	17.51	31260
1FPPOOL	F1J43	1F1	1993/9/10	3/11/2011	6391	17.51	32527
1FPPOOL	F1K23	1F1	1993/9/10	3/11/2011	6391	17.51	33995
1FPPOOL	F1K29	1F1	1993/9/10	3/11/2011	6391	17.51	33274
1FPPOOL	F1J62	1F1	1993/9/10	3/11/2011	6391	17.51	32527
1FPPOOL	F1J64	1F1	1993/9/10	3/11/2011	6391	17.51	32824
1FPPOOL	F1J65	1F1	1993/9/10	3/11/2011	6391	17.51	31097
1FPPOOL	F1L7	1F1	1995/4/10	3/11/2011	5814	15.93	29439
1FPPOOL	F1L27	1F1	1995/4/10	3/11/2011	5814	15.93	31467
1FPPOOL	F1K68	1F1	1995/4/10	3/11/2011	5814	15.93	31934
1FPPOOL	F1L31	1F1	1995/4/10	3/11/2011	5814	15.93	29926
1FPPOOL	F1L20	1F1	1995/4/10	3/11/2011	5814	15.93	34508
1FPPOOL	F1L21	1F1	1995/4/10	3/11/2011	5814	15.93	30397
1FPPOOL	F1K70	1F1	1995/4/10	3/11/2011	5814	15.93	25818
1FPPOOL	F1K75	1F1	1995/4/10	3/11/2011	5814	15.93	25498
1FPPOOL	F1K80	1F1	1993/9/10	3/11/2011	6391	17.51	28955
1FPPOOL	F1K65	1F1	1995/4/10	3/11/2011	5814	15.93	31303
1FPPOOL	F1K87	1F1	1993/9/10	3/11/2011	6391	17.51	29456
1FPPOOL	F1K92	1F1	1995/4/10	3/11/2011	5814	15.93	28767
1FPPOOL	F1L34	1F1	1995/4/10	3/11/2011	5814	15.93	29943
1FPPOOL	F1L35	1F1	1995/4/10	3/11/2011	5814	15.93	31746
1FPPOOL	F1K82	1F1	1995/4/10	3/11/2011	5814	15.93	31076
1FPPOOL	F1K83	1F1	1995/4/10	3/11/2011	5814	15.93	31381
1FPPOOL	F1L11	1F1	1995/4/10	3/11/2011	5814	15.93	29935
1FPPOOL	F1L26	1F1	1995/4/10	3/11/2011	5814	15.93	30841
1FPPOOL	F1L16	1F1	1995/4/10	3/11/2011	5814	15.93	30834
1FPPOOL	F1L4	1F1	1995/4/10	3/11/2011	5814	15.93	33215
1FPPOOL	F1L8	1F1	1995/4/10	3/11/2011	5814	15.93	29460
1FPPOOL	F1L28	1F1	1995/4/10	3/11/2011	5814	15.93	31432
1FPPOOL	F1L17	1F1	1995/4/10	3/11/2011	5814	15.93	31419
1FPPOOL	F1L37	1F1	1995/4/10	3/11/2011	5814	15.93	29426
1FPPOOL	F1K71	1F1	1993/9/10	3/11/2011	6391	17.51	29223
1FPPOOL	F1K76	1F1	1995/4/10	3/11/2011	5814	15.93	29231
1FPPOOL	F1L32	1F1	1995/4/10	3/11/2011	5814	15.93	30236
1FPPOOL	F1L39	1F1	1995/4/10	3/11/2011	5814	15.93	34014
1FPPOOL	F1M12	1F1	1998/4/2	3/11/2011	4726	12.95	32630
1FPPOOL	F1K64	1F1	1995/4/10	3/11/2011	5814	15.93	31282
1FPPOOL	F1K88	1F1	1993/9/10	3/11/2011	6391	17.51	29456
1FPPOOL	F1K89	1F1	1995/4/10	3/11/2011	5814	15.93	28761
1FPPOOL	F1L40	1F1	1995/4/10	3/11/2011	5814	15.93	33255
1FPPOOL	F1L36	1F1	1995/4/10	3/11/2011	5814	15.93	31714
1FPPOOL	F1L12	1F1	1995/4/10	3/11/2011	5814	15.93	30255
1FPPOOL	F1L1	1F1	1995/4/10	3/11/2011	5814	15.93	33622
1FPPOOL	F1L38	1F1	1995/4/10	3/11/2011	5814	15.93	29445
1FPPOOL	F1L41	1F1	1995/4/10	3/11/2011	5814	15.93	33213
1FPPOOL	F1L25	1F1	1995/4/10	3/11/2011	5814	15.93	34567
1FPPOOL	F1L29	1F1	1995/4/10	3/11/2011	5814	15.93	30839

1FPPOOL	F1L33	1F1	1995/4/10	3/11/2011	5814	15.93	30246
1FPPOOL	F1L24	1F1	1995/4/10	3/11/2011	5814	15.93	30408
1FPPOOL	F1L22	1F1	1995/4/10	3/11/2011	5814	15.93	30410
1FPPOOL	F1K69	1F1	1995/4/10	3/11/2011	5814	15.93	31910
1FPPOOL	F1L18	1F1	1995/4/10	3/11/2011	5814	15.93	31420
1FPPOOL	F1L23	1F1	1995/4/10	3/11/2011	5814	15.93	30380
1FPPOOL	F1K67	1F1	1995/4/10	3/11/2011	5814	15.93	25825
1FPPOOL	F1K85	1F1	1995/4/10	3/11/2011	5814	15.93	31074
1FPPOOL	F1K90	1F1	1995/4/10	3/11/2011	5814	15.93	28773
1FPPOOL	F1K74	1F1	1993/9/10	3/11/2011	6391	17.51	29223
1FPPOOL	F1K66	1F1	1995/4/10	3/11/2011	5814	15.93	31280
1FPPOOL	F1K84	1F1	1995/4/10	3/11/2011	5814	15.93	31339
1FPPOOL	F1L42	1F1	1995/4/10	3/11/2011	5814	15.93	33959
1FPPOOL	F1L13	1F1	1995/4/10	3/11/2011	5814	15.93	30264
1FPPOOL	F1L2	1F1	1995/4/10	3/11/2011	5814	15.93	33549
1FPPOOL	F1K78	1F1	1995/4/10	3/11/2011	5814	15.93	25518
1FPPOOL	F1L9	1F1	1995/4/10	3/11/2011	5814	15.93	31708
1FPPOOL	F1L5	1F1	1995/4/10	3/11/2011	5814	15.93	33201
1FPPOOL	F1L30	1F1	1995/4/10	3/11/2011	5814	15.93	34520
1FPPOOL	F1L19	1F1	1995/4/10	3/11/2011	5814	15.93	30859
1FPPOOL	F1L6	1F1	1995/4/10	3/11/2011	5814	15.93	33906
1FPPOOL	F1L43	1F1	1995/4/10	3/11/2011	5814	15.93	33651
1FPPOOL	F1L3	1F1	1995/4/10	3/11/2011	5814	15.93	34045
1FPPOOL	F1K86	1F1	1995/4/10	3/11/2011	5814	15.93	29026
1FPPOOL	F1K91	1F1	1995/4/10	3/11/2011	5814	15.93	28776
1FPPOOL	F1K77	1F1	1995/4/10	3/11/2011	5814	15.93	29258
1FPPOOL	F1K63	1F1	1995/4/10	3/11/2011	5814	15.93	31276
1FPPOOL	F1L10	1F1	1995/4/10	3/11/2011	5814	15.93	31711
1FPPOOL	F1L14	1F1	1995/4/10	3/11/2011	5814	15.93	29951
1FPPOOL	F1L15	1F1	1995/4/10	3/11/2011	5814	15.93	34478
1FPPOOL	F1K79	1F1	1993/9/10	3/11/2011	6391	17.51	28955
1FPPOOL	F1K81	1F1	1995/4/10	3/11/2011	5814	15.93	29000
1FPPOOL	F1L77	1F1	1996/8/18	3/11/2011	5318	14.57	32452
1FPPOOL	F1M11	1F1	1998/4/2	3/11/2011	4726	12.95	32630
1FPPOOL	F1L78	1F1	1996/8/18	3/11/2011	5318	14.57	32300
1FPPOOL	F1M16	1F1	1996/8/18	3/11/2011	5318	14.57	31701
1FPPOOL	F1M20	1F1	1996/8/18	3/11/2011	5318	14.57	32479
1FPPOOL	F1M10	1F1	1998/4/2	3/11/2011	4726	12.95	32636
1FPPOOL	F1L46	1F1	1995/4/10	3/11/2011	5814	15.93	29798
1FPPOOL	F1L51	1F1	1995/4/10	3/11/2011	5814	15.93	29780
1FPPOOL	F1L56	1F1	1996/8/18	3/11/2011	5318	14.57	32172
1FPPOOL	F1L70	1F1	1996/8/18	3/11/2011	5318	14.57	32203
1FPPOOL	F1L54	1F1	1996/8/18	3/11/2011	5318	14.57	32160
1FPPOOL	F1L60	1F1	1996/8/18	3/11/2011	5318	14.57	33544
1FPPOOL	F1L47	1F1	1995/4/10	3/11/2011	5814	15.93	29532
1FPPOOL	F1L45	1F1	1995/4/10	3/11/2011	5814	15.93	29786
1FPPOOL	F1L67	1F1	1996/8/18	3/11/2011	5318	14.57	30685
1FPPOOL	F1L71	1F1	1996/8/18	3/11/2011	5318	14.57	32211
1FPPOOL	F1M5	1F1	1996/8/18	3/11/2011	5318	14.57	32372
1FPPOOL	F1M24	1F1	1996/8/18	3/11/2011	5318	14.57	30699
1FPPOOL	F1L62	1F1	1996/8/18	3/11/2011	5318	14.57	31254
1FPPOOL	F1M6	1F1	1996/8/18	3/11/2011	5318	14.57	32356
1FPPOOL	F1L75	1F1	1996/8/18	3/11/2011	5318	14.57	32552

1FPPOOL	F1M17	1F1	1996/8/18	3/11/2011	5318	14.57	32459
1FPPOOL	F1M7	1F1	1996/8/18	3/11/2011	5318	14.57	32415
1FPPOOL	F1M26	1F1	1996/8/18	3/11/2011	5318	14.57	30929
1FPPOOL	F1L52	1F1	1995/4/10	3/11/2011	5814	15.93	29787
1FPPOOL	F1L57	1F1	1996/8/18	3/11/2011	5318	14.57	33513
1FPPOOL	F1M21	1F1	1996/8/18	3/11/2011	5318	14.57	30678
1FPPOOL	F1M22	1F1	1996/8/18	3/11/2011	5318	14.57	30751
1FPPOOL	F1M28	1F1	1996/8/18	3/11/2011	5318	14.57	30880
1FPPOOL	F1L64	1F1	1996/8/18	3/11/2011	5318	14.57	31226
1FPPOOL	F1L68	1F1	1998/4/2	3/11/2011	4726	12.95	33692
1FPPOOL	F1M25	1F1	1996/8/18	3/11/2011	5318	14.57	30879
1FPPOOL	F1L63	1F1	1996/8/18	3/11/2011	5318	14.57	31230
1FPPOOL	F1L72	1F1	1996/8/18	3/11/2011	5318	14.57	32188
1FPPOOL	F1M27	1F1	1996/8/18	3/11/2011	5318	14.57	30908
1FPPOOL	F1M18	1F1	1996/8/18	3/11/2011	5318	14.57	32494
1FPPOOL	F1M14	1F1	1996/8/18	3/11/2011	5318	14.57	31723
1FPPOOL	F1L50	1F1	1995/4/10	3/11/2011	5814	15.93	29532
1FPPOOL	F1M8	1F1	1996/8/18	3/11/2011	5318	14.57	32392
1FPPOOL	F1L79	1F1	1996/8/18	3/11/2011	5318	14.57	32558
1FPPOOL	F1L69	1F1	1996/8/18	3/11/2011	5318	14.57	32185
1FPPOOL	F1L48	1F1	1995/4/10	3/11/2011	5814	15.93	29549
1FPPOOL	F1L73	1F1	1996/8/18	3/11/2011	5318	14.57	32426
1FPPOOL	F1L80	1F1	1995/4/10	3/11/2011	5814	15.93	29320
1FPPOOL	F1M13	1F1	1996/8/18	3/11/2011	5318	14.57	31686
1FPPOOL	F1M15	1F1	1996/8/18	3/11/2011	5318	14.57	31744
1FPPOOL	F1M19	1F1	1996/8/18	3/11/2011	5318	14.57	32520
1FPPOOL	F1M9	1F1	1998/4/2	3/11/2011	4726	12.95	32652
1FPPOOL	F1M23	1F1	1996/8/18	3/11/2011	5318	14.57	30731
1FPPOOL	F1L76	1F1	1996/8/18	3/11/2011	5318	14.57	32591
1FPPOOL	F1L53	1F1	1996/8/18	3/11/2011	5318	14.57	32138
1FPPOOL	F1L55	1F1	1996/8/18	3/11/2011	5318	14.57	32168
1FPPOOL	F1L74	1F1	1996/8/18	3/11/2011	5318	14.57	32532
1FPPOOL	F1L49	1F1	1995/4/10	3/11/2011	5814	15.93	29523
1FPPOOL	F1L65	1F1	1998/4/2	3/11/2011	4726	12.95	33647
1FPPOOL	F1L66	1F1	1996/8/18	3/11/2011	5318	14.57	30700
1FPPOOL	F1L58	1F1	1996/8/18	3/11/2011	5318	14.57	33433
1FPPOOL	F1L44	1F1	1995/4/10	3/11/2011	5814	15.93	33558
1FPPOOL	F1L59	1F1	1996/8/18	3/11/2011	5318	14.57	33541
1FPPOOL	F1L61	1F1	1996/8/18	3/11/2011	5318	14.57	31160
1FPPOOL	F1N9	1F1	1996/8/18	3/11/2011	5318	14.57	30688
1FPPOOL	F1N14	1F1	1998/4/2	3/11/2011	4726	12.95	35054
1FPPOOL	F1N1	1F1	1998/4/2	3/11/2011	4726	12.95	33626
1FPPOOL	F1N2	1F1	1998/4/2	3/11/2011	4726	12.95	33662
1FPPOOL	F1N3	1F1	1996/8/18	3/11/2011	5318	14.57	30662
1FPPOOL	F1M40	1F1	1996/8/18	3/11/2011	5318	14.57	32397
1FPPOOL	F1M35	1F1	1996/8/18	3/11/2011	5318	14.57	32581
1FPPOOL	F1M57	1F1	1998/4/2	3/11/2011	4726	12.95	33103
1FPPOOL	F1N17	1F1	1998/4/2	3/11/2011	4726	12.95	34957
1FPPOOL	F1M50	1F1	1998/4/2	3/11/2011	4726	12.95	32603
1FPPOOL	F1M66	1F1	1998/4/2	3/11/2011	4726	12.95	32750
1FPPOOL	F1N13	1F1	1998/4/2	3/11/2011	4726	12.95	34963
1FPPOOL	F1M70	1F1	1998/4/2	3/11/2011	4726	12.95	32698
1FPPOOL	F1N10	1F1	1998/4/2	3/11/2011	4726	12.95	33665

1FPPOOL	F1N19	1F1	1998/4/2	3/11/2011	4726	12.95	35092
1FPPOOL	F1N6	1F1	1996/8/18	3/11/2011	5318	14.57	30677
1FPPOOL	F1M41	1F1	1996/8/18	3/11/2011	5318	14.57	31940
1FPPOOL	F1M54	1F1	1998/4/2	3/11/2011	4726	12.95	32573
1FPPOOL	F1N15	1F1	1998/4/2	3/11/2011	4726	12.95	35048
1FPPOOL	F1N21	1F1	1998/4/2	3/11/2011	4726	12.95	37003
1FPPOOL	F1N82	1F1	1996/8/18	3/11/2011	5318	14.57	31459
1FPPOOL	F1M34	1F1	1996/8/18	3/11/2011	5318	14.57	32564
1FPPOOL	F1N22	1F1	1998/4/2	3/11/2011	4726	12.95	37012
1FPPOOL	F1N18	1F1	1998/4/2	3/11/2011	4726	12.95	35033
1FPPOOL	F1M36	1F1	1995/4/10	3/11/2011	5814	15.93	29342
1FPPOOL	F1M51	1F1	1998/4/2	3/11/2011	4726	12.95	32555
1FPPOOL	F1M67	1F1	1998/4/2	3/11/2011	4726	12.95	32726
1FPPOOL	F1M58	1F1	1998/4/2	3/11/2011	4726	12.95	33097
1FPPOOL	F1N20	1F1	1998/4/2	3/11/2011	4726	12.95	34941
1FPPOOL	F1N23	1F1	1998/4/2	3/11/2011	4726	12.95	36963
1FPPOOL	F1N16	1F1	1998/4/2	3/11/2011	4726	12.95	34969
1FPPOOL	F1M43	1F1	1996/8/18	3/11/2011	5318	14.57	32000
1FPPOOL	F1N7	1F1	1996/8/18	3/11/2011	5318	14.57	30738
1FPPOOL	F1N4	1F1	1996/8/18	3/11/2011	5318	14.57	30694
1FPPOOL	F1M39	1F1	1996/8/18	3/11/2011	5318	14.57	32355
1FPPOOL	F1M71	1F1	1998/4/2	3/11/2011	4726	12.95	32663
1FPPOOL	F1N5	1F1	1996/8/18	3/11/2011	5318	14.57	30659
1FPPOOL	F1M55	1F1	1998/4/2	3/11/2011	4726	12.95	32582
1FPPOOL	F1M37	1F1	1995/4/10	3/11/2011	5814	15.93	29348
1FPPOOL	F1M68	1F1	1998/4/2	3/11/2011	4726	12.95	32722
1FPPOOL	F1N11	1F1	1996/8/18	3/11/2011	5318	14.57	30755
1FPPOOL	F1M59	1F1	1998/4/2	3/11/2011	4726	12.95	33132
1FPPOOL	F1N24	1F1	1998/4/2	3/11/2011	4726	12.95	37013
1FPPOOL	F1N8	1F1	1996/8/18	3/11/2011	5318	14.57	30722
1FPPOOL	F1M44	1F1	1996/8/18	3/11/2011	5318	14.57	31961
1FPPOOL	F1M72	1F1	1998/4/2	3/11/2011	4726	12.95	32694
1FPPOOL	F1M38	1F1	1996/8/18	3/11/2011	5318	14.57	32322
1FPPOOL	F1M52	1F1	1998/4/2	3/11/2011	4726	12.95	32556
1FPPOOL	F1M42	1F1	1996/8/18	3/11/2011	5318	14.57	31934
1FPPOOL	F1M60	1F1	1998/4/2	3/11/2011	4726	12.95	33119
1FPPOOL	F1N25	1F1	1998/4/2	3/11/2011	4726	12.95	37012
1FPPOOL	F1M46	1F1	1998/4/2	3/11/2011	4726	12.95	32553
1FPPOOL	F1M33	1F1	1995/4/10	3/11/2011	5814	15.93	29375
1FPPOOL	F1M65	1F1	1998/4/2	3/11/2011	4726	12.95	32754
1FPPOOL	F1M69	1F1	1998/4/2	3/11/2011	4726	12.95	32727
1FPPOOL	F1N12	1F1	1998/4/2	3/11/2011	4726	12.95	33671
1FPPOOL	F1M47	1F1	1998/4/2	3/11/2011	4726	12.95	32592
1FPPOOL	F1M49	1F1	1998/4/2	3/11/2011	4726	12.95	32593
1FPPOOL	F1N87	1F1	1996/8/18	3/11/2011	5318	14.57	31525
1FPPOOL	F1N91	1F1	1996/8/18	3/11/2011	5318	14.57	30702
1FPPOOL	F1N92	1F1	1996/8/18	3/11/2011	5318	14.57	30692
1FPPOOL	F1N32	1F1	1998/4/2	3/11/2011	4726	12.95	33170
1FPPOOL	F1N36	1F1	1998/4/2	3/11/2011	4726	12.95	33347
1FPPOOL	F1N28	1F1	1998/4/2	3/11/2011	4726	12.95	36965
1FPPOOL	F1N47	1F1	1998/4/2	3/11/2011	4726	12.95	33714
1FPPOOL	F1N51	1F1	1998/4/2	3/11/2011	4726	12.95	34838
1FPPOOL	F1N95	1F1	1996/8/18	3/11/2011	5318	14.57	30679

1FPPOOL	F1N96	1F1	1996/8/18	3/11/2011	5318	14.57	30775
1FPPOOL	F1N43	1F1	1998/4/2	3/11/2011	4726	12.95	34265
1FPPOOL	F1N88	1F1	1996/8/18	3/11/2011	5318	14.57	31491
1FPPOOL	F1N37	1F1	1998/4/2	3/11/2011	4726	12.95	32854
1FPPOOL	F1N98	1F1	1998/4/2	3/11/2011	4726	12.95	33940
1FPPOOL	F1N33	1F1	1998/4/2	3/11/2011	4726	12.95	33313
1FPPOOL	F1N104	1F1	1998/4/2	3/11/2011	4726	12.95	36058
1FPPOOL	F1N93	1F1	1996/8/18	3/11/2011	5318	14.57	30665
1FPPOOL	F1N100	1F1	1998/4/2	3/11/2011	4726	12.95	33778
1FPPOOL	F1N27	1F1	1998/4/2	3/11/2011	4726	12.95	37099
1FPPOOL	F1N44	1F1	1998/4/2	3/11/2011	4726	12.95	34137
1FPPOOL	F1N48	1F1	1998/4/2	3/11/2011	4726	12.95	33729
1FPPOOL	F1N101	1F1	1998/4/2	3/11/2011	4726	12.95	36061
1FPPOOL	F1N97	1F1	1998/4/2	3/11/2011	4726	12.95	33788
1FPPOOL	F1N52	1F1	1998/4/2	3/11/2011	4726	12.95	34868
1FPPOOL	F1N99	1F1	1998/4/2	3/11/2011	4726	12.95	33939
1FPPOOL	F1N102	1F1	1998/4/2	3/11/2011	4726	12.95	36108
1FPPOOL	F1N89	1F1	1996/8/18	3/11/2011	5318	14.57	30687
1FPPOOL	F1N94	1F1	1998/4/2	3/11/2011	4726	12.95	33664
1FPPOOL	F1N84	1F1	1996/8/18	3/11/2011	5318	14.57	31476
1FPPOOL	F1N81	1F1	1996/8/18	3/11/2011	5318	14.57	31371
1FPPOOL	F1N31	1F1	1998/4/2	3/11/2011	4726	12.95	33208
1FPPOOL	F1N83	1F1	1996/8/18	3/11/2011	5318	14.57	31548
1FPPOOL	F1N45	1F1	1998/4/2	3/11/2011	4726	12.95	33695
1FPPOOL	F1N49	1F1	1998/4/2	3/11/2011	4726	12.95	34918
1FPPOOL	F1N35	1F1	1998/4/2	3/11/2011	4726	12.95	33443
1FPPOOL	F1N29	1F1	1998/4/2	3/11/2011	4726	12.95	33209
1FPPOOL	F1N103	1F1	1998/4/2	3/11/2011	4726	12.95	36098
1FPPOOL	F1N85	1F1	1996/8/18	3/11/2011	5318	14.57	31487
1FPPOOL	F1N86	1F1	1996/8/18	3/11/2011	5318	14.57	31442
1FPPOOL	F1N90	1F1	1998/4/2	3/11/2011	4726	12.95	33625
1FPPOOL	F1N34	1F1	1998/4/2	3/11/2011	4726	12.95	33435
1FPPOOL	F1N30	1F1	1998/4/2	3/11/2011	4726	12.95	33287
1FPPOOL	F1N46	1F1	1998/4/2	3/11/2011	4726	12.95	33826
1FPPOOL	F1N50	1F1	1998/4/2	3/11/2011	4726	12.95	34925
1FPPOOL	F1N38	1F1	1998/4/2	3/11/2011	4726	12.95	32991
1FPPOOL	F1N26	1F1	1998/4/2	3/11/2011	4726	12.95	37127
1FPPOOL	F1N41	1F1	1998/4/2	3/11/2011	4726	12.95	34124
1FPPOOL	F1N39	1F1	1998/4/2	3/11/2011	4726	12.95	32963
1FPPOOL	F1N40	1F1	1998/4/2	3/11/2011	4726	12.95	32927
1FPPOOL	F1N42	1F1	1998/4/2	3/11/2011	4726	12.95	34279
1FPPOOL	F1N115	1F1	1998/4/2	3/11/2011	4726	12.95	33870
1FPPOOL	F1N108	1F1	1998/4/2	3/11/2011	4726	12.95	35767
1FPPOOL	F1P43	1F1	1998/4/2	3/11/2011	4726	12.95	35963
1FPPOOL	F1P48	1F1	1998/4/2	3/11/2011	4726	12.95	34102
1FPPOOL	F1N113	1F1	1998/4/2	3/11/2011	4726	12.95	33820
1FPPOOL	F1N114	1F1	1998/4/2	3/11/2011	4726	12.95	33862
1FPPOOL	F1N107	1F1	1998/4/2	3/11/2011	4726	12.95	35788
1FPPOOL	F1P44	1F1	1998/4/2	3/11/2011	4726	12.95	35931
1FPPOOL	F1P45	1F1	1998/4/2	3/11/2011	4726	12.95	34114
1FPPOOL	F1N116	1F1	1998/4/2	3/11/2011	4726	12.95	33797
1FPPOOL	F1P41	1F1	1998/4/2	3/11/2011	4726	12.95	35907
1FPPOOL	F1N105	1F1	1998/4/2	3/11/2011	4726	12.95	35753

1FPPOOL	F1P46	1F1	1998/4/2	3/11/2011	4726	12.95	34234
1FPPOOL	F1N106	1F1	1998/4/2	3/11/2011	4726	12.95	35836
1FPPOOL	F1P42	1F1	1998/4/2	3/11/2011	4726	12.95	35989
1FPPOOL	F1P47	1F1	1998/4/2	3/11/2011	4726	12.95	34157
1FPPOOL	F2C107	1F2	1988/8/27	3/11/2011	8231	22.55	23724
1FPPOOL	F2C102	1F2	1988/8/27	3/11/2011	8231	22.55	26941
1FPPOOL	F2C119	1F2	1990/1/28	3/11/2011	7712	21.13	26471
1FPPOOL	F2C104	1F2	1988/8/27	3/11/2011	8231	22.55	26998
1FPPOOL	F2C118	1F2	1988/8/27	3/11/2011	8231	22.55	23720
1FPPOOL	F2C123	1F2	1990/1/28	3/11/2011	7712	21.13	26780
1FPPOOL	F2C35	1F2	1988/8/27	3/11/2011	8231	22.55	26999
1FPPOOL	F2C109	1F2	1990/1/28	3/11/2011	7712	21.13	26473
1FPPOOL	F2C124	1F2	1988/8/27	3/11/2011	8231	22.55	23721
1FPPOOL	F2C37	1F2	1988/8/27	3/11/2011	8231	22.55	26950
1FPPOOL	F2E137	1F2	1988/8/27	3/11/2011	8231	22.55	25797
1FPPOOL	F2E142	1F2	1988/8/27	3/11/2011	8231	22.55	25677
1FPPOOL	F2E148	1F2	1988/8/27	3/11/2011	8231	22.55	26357
1FPPOOL	F2E149	1F2	1988/8/27	3/11/2011	8231	22.55	26450
1FPPOOL	F2C113	1F2	1990/1/28	3/11/2011	7712	21.13	26421
1FPPOOL	F2E153	1F2	1988/8/27	3/11/2011	8231	22.55	25788
1FPPOOL	F2E156	1F2	1988/8/27	3/11/2011	8231	22.55	26540
1FPPOOL	F2C115	1F2	1990/1/28	3/11/2011	7712	21.13	26732
1FPPOOL	F2C114	1F2	1990/1/28	3/11/2011	7712	21.13	26734
1FPPOOL	F2C108	1F2	1990/1/28	3/11/2011	7712	21.13	26777
1FPPOOL	F2C110	1F2	1988/8/27	3/11/2011	8231	22.55	23715
1FPPOOL	F2C111	1F2	1988/8/27	3/11/2011	8231	22.55	23583
1FPPOOL	F2C112	1F2	1988/8/27	3/11/2011	8231	22.55	23580
1FPPOOL	F2C116	1F2	1990/1/28	3/11/2011	7712	21.13	26424
1FPPOOL	F2C117	1F2	1988/8/27	3/11/2011	8231	22.55	23583
1FPPOOL	F2F1	1F2	1988/8/27	3/11/2011	8231	22.55	25105
1FPPOOL	F2F6	1F2	1988/8/27	3/11/2011	8231	22.55	24466
1FPPOOL	F2G131	1F2	1988/8/27	3/11/2011	8231	22.55	25701
1FPPOOL	F2F85	1F2	1988/8/27	3/11/2011	8231	22.55	26090
1FPPOOL	F2G98	1F2	1988/8/27	3/11/2011	8231	22.55	26187
1FPPOOL	F2F29	1F2	1988/8/27	3/11/2011	8231	22.55	25595
1FPPOOL	F2F61	1F2	1988/8/27	3/11/2011	8231	22.55	25698
1FPPOOL	F2F93	1F2	1988/8/27	3/11/2011	8231	22.55	26370
1FPPOOL	F2F99	1F2	1988/8/27	3/11/2011	8231	22.55	25360
1FPPOOL	F2G4	1F2	1988/8/27	3/11/2011	8231	22.55	26524
1FPPOOL	F2G5	1F2	1988/8/27	3/11/2011	8231	22.55	25705
1FPPOOL	F2F32	1F2	1988/8/27	3/11/2011	8231	22.55	26645
1FPPOOL	F2F35	1F2	1988/8/27	3/11/2011	8231	22.55	26352
1FPPOOL	F2G11	1F2	1988/8/27	3/11/2011	8231	22.55	25907
1FPPOOL	F2G3	1F2	1988/8/27	3/11/2011	8231	22.55	25966
1FPPOOL	F2G103	1F2	1988/8/27	3/11/2011	8231	22.55	26192
1FPPOOL	F2G132	1F2	1988/8/27	3/11/2011	8231	22.55	26535
1FPPOOL	F2F72	1F2	1988/8/27	3/11/2011	8231	22.55	25128
1FPPOOL	F2F104	1F2	1988/8/27	3/11/2011	8231	22.55	25786
1FPPOOL	F2G133	1F2	1988/8/27	3/11/2011	8231	22.55	25965
1FPPOOL	F2G134	1F2	1988/8/27	3/11/2011	8231	22.55	25965
1FPPOOL	F2G135	1F2	1988/8/27	3/11/2011	8231	22.55	26538
1FPPOOL	F2F26	1F2	1988/8/27	3/11/2011	8231	22.55	26675
1FPPOOL	F2G32	1F2	1988/8/27	3/11/2011	8231	22.55	26190

1FPPOOL	F2G43	1F2	1988/8/27	3/11/2011	8231	22.55	26578
1FPPOOL	F2G145	1F2	1990/1/28	3/11/2011	7712	21.13	33199
1FPPOOL	F2G152	1F2	1990/1/28	3/11/2011	7712	21.13	33121
1FPPOOL	F2F41	1F2	1988/8/27	3/11/2011	8231	22.55	26657
1FPPOOL	F2F22	1F2	1988/8/27	3/11/2011	8231	22.55	25516
1FPPOOL	F2F67	1F2	1988/8/27	3/11/2011	8231	22.55	25265
1FPPOOL	F2F48	1F2	1988/8/27	3/11/2011	8231	22.55	25560
1FPPOOL	F2F51	1F2	1988/8/27	3/11/2011	8231	22.55	25513
1FPPOOL	F2F53	1F2	1988/8/27	3/11/2011	8231	22.55	26962
1FPPOOL	F2G104	1F2	1988/8/27	3/11/2011	8231	22.55	26580
1FPPOOL	F2F92	1F2	1988/8/27	3/11/2011	8231	22.55	26341
1FPPOOL	F2F38	1F2	1988/8/27	3/11/2011	8231	22.55	25861
1FPPOOL	F2F12	1F2	1988/8/27	3/11/2011	8231	22.55	25698
1FPPOOL	F2G126	1F2	1988/8/27	3/11/2011	8231	22.55	25847
1FPPOOL	F2G91	1F2	1988/8/27	3/11/2011	8231	22.55	26541
1FPPOOL	F2G92	1F2	1988/8/27	3/11/2011	8231	22.55	25653
1FPPOOL	F2F54	1F2	1988/8/27	3/11/2011	8231	22.55	25763
1FPPOOL	F2G51	1F2	1988/8/27	3/11/2011	8231	22.55	26402
1FPPOOL	F2G52	1F2	1988/8/27	3/11/2011	8231	22.55	25870
1FPPOOL	F2F44	1F2	1988/8/27	3/11/2011	8231	22.55	25602
1FPPOOL	F2G37	1F2	1988/8/27	3/11/2011	8231	22.55	26197
1FPPOOL	F2F107	1F2	1990/1/28	3/11/2011	7712	21.13	25299
1FPPOOL	F2F108	1F2	1988/8/27	3/11/2011	8231	22.55	23343
1FPPOOL	F2F19	1F2	1988/8/27	3/11/2011	8231	22.55	25775
1FPPOOL	F2F110	1F2	1988/8/27	3/11/2011	8231	22.55	22925
1FPPOOL	F2G1	1F2	1988/8/27	3/11/2011	8231	22.55	26540
1FPPOOL	F2G2	1F2	1988/8/27	3/11/2011	8231	22.55	26427
1FPPOOL	F2G10	1F2	1988/8/27	3/11/2011	8231	22.55	25862
1FPPOOL	F2G171	1F2	1990/1/28	3/11/2011	7712	21.13	34024
1FPPOOL	F2G190	1F2	1990/1/28	3/11/2011	7712	21.13	34024
1FPPOOL	F2G166	1F2	1990/1/28	3/11/2011	7712	21.13	34024
1FPPOOL	F2G205	1F2	1990/1/28	3/11/2011	7712	21.13	33121
1FPPOOL	F2G206	1F2	1990/1/28	3/11/2011	7712	21.13	33121
1FPPOOL	F2G185	1F2	1990/1/28	3/11/2011	7712	21.13	34024
1FPPOOL	F2J19	1F2	1991/9/10	3/11/2011	7122	19.51	27214
1FPPOOL	F2J22	1F2	1991/9/10	3/11/2011	7122	19.51	27214
1FPPOOL	F2J90	1F2	1991/9/10	3/11/2011	7122	19.51	27214
1FPPOOL	F2J40	1F2	1991/9/10	3/11/2011	7122	19.51	27120
1FPPOOL	F2J35	1F2	1991/9/10	3/11/2011	7122	19.51	27120
1FPPOOL	F2J72	1F2	1991/9/10	3/11/2011	7122	19.51	27120
1FPPOOL	F2K18	1F2	1994/4/10	3/11/2011	6179	16.93	30619
1FPPOOL	F2K36	1F2	1993/1/16	3/11/2011	6628	18.16	29877
1FPPOOL	F2K42	1F2	1994/4/10	3/11/2011	6179	16.93	30369
1FPPOOL	F2K47	1F2	1994/4/10	3/11/2011	6179	16.93	30435
1FPPOOL	F2K34	1F2	1994/4/10	3/11/2011	6179	16.93	27723
1FPPOOL	F2K35	1F2	1994/4/10	3/11/2011	6179	16.93	32597
1FPPOOL	F2K4	1F2	1994/4/10	3/11/2011	6179	16.93	32118
1FPPOOL	F2K5	1F2	1994/4/10	3/11/2011	6179	16.93	30664
1FPPOOL	F2K10	1F2	1993/1/16	3/11/2011	6628	18.16	27981
1FPPOOL	F2K51	1F2	1994/4/10	3/11/2011	6179	16.93	30468
1FPPOOL	F2K52	1F2	1994/4/10	3/11/2011	6179	16.93	30454
1FPPOOL	F2K24	1F2	1993/1/16	3/11/2011	6628	18.16	30004
1FPPOOL	F2K29	1F2	1994/4/10	3/11/2011	6179	16.93	30708

1FPPOOL	F2K15	1F2	1994/4/10	3/11/2011	6179	16.93	30600
1FPPOOL	F2K19	1F2	1993/1/16	3/11/2011	6628	18.16	29311
1FPPOOL	F2K43	1F2	1994/4/10	3/11/2011	6179	16.93	30410
1FPPOOL	F2K30	1F2	1994/4/10	3/11/2011	6179	16.93	34093
1FPPOOL	F2K54	1F2	1993/1/16	3/11/2011	6628	18.16	27879
1FPPOOL	F2K12	1F2	1994/4/10	3/11/2011	6179	16.93	34532
1FPPOOL	F2K48	1F2	1994/4/10	3/11/2011	6179	16.93	31425
1FPPOOL	F2K49	1F2	1993/1/16	3/11/2011	6628	18.16	27842
1FPPOOL	F2K57	1F2	1994/4/10	3/11/2011	6179	16.93	31968
1FPPOOL	F2K6	1F2	1994/4/10	3/11/2011	6179	16.93	30642
1FPPOOL	F2K58	1F2	1994/4/10	3/11/2011	6179	16.93	27699
1FPPOOL	F2K11	1F2	1994/4/10	3/11/2011	6179	16.93	31913
1FPPOOL	F2K53	1F2	1993/1/16	3/11/2011	6628	18.16	29912
1FPPOOL	F2K55	1F2	1994/4/10	3/11/2011	6179	16.93	27709
1FPPOOL	F2K1	1F2	1994/4/10	3/11/2011	6179	16.93	32160
1FPPOOL	F2K25	1F2	1993/1/16	3/11/2011	6628	18.16	29297
1FPPOOL	F2K31	1F2	1994/4/10	3/11/2011	6179	16.93	27702
1FPPOOL	F2K56	1F2	1994/4/10	3/11/2011	6179	16.93	31931
1FPPOOL	F2K39	1F2	1993/1/16	3/11/2011	6628	18.16	29924
1FPPOOL	F2K59	1F2	1994/4/10	3/11/2011	6179	16.93	34149
1FPPOOL	F2K45	1F2	1994/4/10	3/11/2011	6179	16.93	31369
1FPPOOL	F2K50	1F2	1993/1/16	3/11/2011	6628	18.16	29911
1FPPOOL	F2K40	1F2	1993/1/16	3/11/2011	6628	18.16	27861
1FPPOOL	F2K37	1F2	1994/4/10	3/11/2011	6179	16.93	30399
1FPPOOL	F2K38	1F2	1994/4/10	3/11/2011	6179	16.93	30396
1FPPOOL	F2K2	1F2	1994/4/10	3/11/2011	6179	16.93	32165
1FPPOOL	F2K60	1F2	1994/4/10	3/11/2011	6179	16.93	30671
1FPPOOL	F2K7	1F2	1994/4/10	3/11/2011	6179	16.93	34544
1FPPOOL	F2K26	1F2	1994/4/10	3/11/2011	6179	16.93	30304
1FPPOOL	F2K61	1F2	1994/4/10	3/11/2011	6179	16.93	30740
1FPPOOL	F2K20	1F2	1994/4/10	3/11/2011	6179	16.93	34536
1FPPOOL	F2K44	1F2	1994/4/10	3/11/2011	6179	16.93	31405
1FPPOOL	F2K13	1F2	1994/4/10	3/11/2011	6179	16.93	34569
1FPPOOL	F2K21	1F2	1994/4/10	3/11/2011	6179	16.93	30281
1FPPOOL	F2K41	1F2	1994/4/10	3/11/2011	6179	16.93	31360
1FPPOOL	F2K46	1F2	1994/4/10	3/11/2011	6179	16.93	30394
1FPPOOL	F2K33	1F2	1994/4/10	3/11/2011	6179	16.93	31929
1FPPOOL	F2K17	1F2	1994/4/10	3/11/2011	6179	16.93	31396
1FPPOOL	F2K62	1F2	1994/4/10	3/11/2011	6179	16.93	34127
1FPPOOL	F2K8	1F2	1994/4/10	3/11/2011	6179	16.93	31971
1FPPOOL	F2K14	1F2	1993/1/16	3/11/2011	6628	18.16	29293
1FPPOOL	F2K32	1F2	1994/4/10	3/11/2011	6179	16.93	32375
1FPPOOL	F2K3	1F2	1994/4/10	3/11/2011	6179	16.93	32122
1FPPOOL	F2K9	1F2	1993/1/16	3/11/2011	6628	18.16	27973
1FPPOOL	F2K27	1F2	1994/4/10	3/11/2011	6179	16.93	34110
1FPPOOL	F2K22	1F2	1993/1/16	3/11/2011	6628	18.16	29263
1FPPOOL	F2K23	1F2	1993/1/16	3/11/2011	6628	18.16	29961
1FPPOOL	F2K28	1F2	1994/4/10	3/11/2011	6179	16.93	30678
1FPPOOL	F2K16	1F2	1994/4/10	3/11/2011	6179	16.93	31384
1FPPOOL	F2K103	1F2	1994/4/10	3/11/2011	6179	16.93	31950
1FPPOOL	F2K120	1F2	1995/12/22	3/11/2011	5558	15.23	32528
1FPPOOL	F2K125	1F2	1995/12/22	3/11/2011	5558	15.23	30684
1FPPOOL	F2K119	1F2	1995/12/22	3/11/2011	5558	15.23	32340

1FPPOOL	F2K126	1F2	1995/12/22	3/11/2011	5558	15.23	32613
1FPPOOL	F2KN3	1F2	1994/4/10	3/11/2011	6179	16.93	35225
1FPPOOL	F2K75	1F2	1993/1/16	3/11/2011	6628	18.16	29298
1FPPOOL	F2K118	1F2	1995/12/22	3/11/2011	5558	15.23	29609
1FPPOOL	F2K72	1F2	1994/4/10	3/11/2011	6179	16.93	31464
1FPPOOL	F2K77	1F2	1994/4/10	3/11/2011	6179	16.93	34623
1FPPOOL	F2K82	1F2	1994/4/10	3/11/2011	6179	16.93	34627
1FPPOOL	F2K100	1F2	1994/4/10	3/11/2011	6179	16.93	34635
1FPPOOL	F2K66	1F2	1993/1/16	3/11/2011	6628	18.16	30008
1FPPOOL	F2K64	1F2	1993/1/16	3/11/2011	6628	18.16	29278
1FPPOOL	F2K90	1F2	1994/4/10	3/11/2011	6179	16.93	30759
1FPPOOL	F2K95	1F2	1993/1/16	3/11/2011	6628	18.16	27843
1FPPOOL	F2K96	1F2	1993/1/16	3/11/2011	6628	18.16	27876
1FPPOOL	F2KN7	1F2	1993/1/16	3/11/2011	6628	18.16	28249
1FPPOOL	F2K85	1F2	1994/4/10	3/11/2011	6179	16.93	32081
1FPPOOL	F2K104	1F2	1994/4/10	3/11/2011	6179	16.93	32432
1FPPOOL	F2K108	1F2	1995/12/22	3/11/2011	5558	15.23	30740
1FPPOOL	F2K113	1F2	1995/12/22	3/11/2011	5558	15.23	32338
1FPPOOL	F2K101	1F2	1994/4/10	3/11/2011	6179	16.93	34546
1FPPOOL	F2K127	1F2	1995/12/22	3/11/2011	5558	15.23	31873
1FPPOOL	F2K114	1F2	1995/12/22	3/11/2011	5558	15.23	32370
1FPPOOL	F2KN10	1F2	1993/1/16	3/11/2011	6628	18.16	28251
1FPPOOL	F2K73	1F2	1994/4/10	3/11/2011	6179	16.93	31464
1FPPOOL	F2K78	1F2	1994/4/10	3/11/2011	6179	16.93	31999
1FPPOOL	F2KN4	1F2	1993/1/16	3/11/2011	6628	18.16	30281
1FPPOOL	F2KN5	1F2	1993/1/16	3/11/2011	6628	18.16	30289
1FPPOOL	F2KN13	1F2	1993/1/16	3/11/2011	6628	18.16	30365
1FPPOOL	F2KN8	1F2	1993/1/16	3/11/2011	6628	18.16	28272
1FPPOOL	F2K65	1F2	1993/1/16	3/11/2011	6628	18.16	29992
1FPPOOL	F2K91	1F2	1994/4/10	3/11/2011	6179	16.93	34573
1FPPOOL	F2K109	1F2	1995/12/22	3/11/2011	5558	15.23	30626
1FPPOOL	F2KN14	1F2	1993/1/16	3/11/2011	6628	18.16	30360
1FPPOOL	F2KN9	1F2	1993/1/16	3/11/2011	6628	18.16	28222
1FPPOOL	F2K86	1F2	1994/4/10	3/11/2011	6179	16.93	32162
1FPPOOL	F2K97	1F2	1993/1/16	3/11/2011	6628	18.16	27862
1FPPOOL	F2KN11	1F2	1994/4/10	3/11/2011	6179	16.93	35259
1FPPOOL	F2KN12	1F2	1994/4/10	3/11/2011	6179	16.93	35336
1FPPOOL	F2KN16	1F2	1994/4/10	3/11/2011	6179	16.93	30982
1FPPOOL	F2K128	1F2	1995/12/22	3/11/2011	5558	15.23	31897
1FPPOOL	F2K70	1F2	1993/1/16	3/11/2011	6628	18.16	29299
1FPPOOL	F2K123	1F2	1995/12/22	3/11/2011	5558	15.23	32628
1FPPOOL	F2K121	1F2	1995/12/22	3/11/2011	5558	15.23	32561
1FPPOOL	F2K116	1F2	1995/12/22	3/11/2011	5558	15.23	29577
1FPPOOL	F2KN15	1F2	1994/4/10	3/11/2011	6179	16.93	30978
1FPPOOL	F2K122	1F2	1995/12/22	3/11/2011	5558	15.23	32635
1FPPOOL	F2K67	1F2	1993/1/16	3/11/2011	6628	18.16	29280
1FPPOOL	F2K87	1F2	1994/4/10	3/11/2011	6179	16.93	32181
1FPPOOL	F2K105	1F2	1995/12/22	3/11/2011	5558	15.23	31902
1FPPOOL	F2K92	1F2	1994/4/10	3/11/2011	6179	16.93	34602
1FPPOOL	F2K110	1F2	1995/12/22	3/11/2011	5558	15.23	32513
1FPPOOL	F2K76	1F2	1994/4/10	3/11/2011	6179	16.93	34571
1FPPOOL	F2K68	1F2	1994/4/10	3/11/2011	6179	16.93	30328
1FPPOOL	F2KN17	1F2	1994/4/10	3/11/2011	6179	16.93	31007

1FPPOOL	F2K111	1F2	1995/12/22	3/11/2011	5558	15.23	32556
1FPPOOL	F2K98	1F2	1993/1/16	3/11/2011	6628	18.16	27824
1FPPOOL	F2K115	1F2	1995/12/22	3/11/2011	5558	15.23	29581
1FPPOOL	F2K99	1F2	1994/4/10	3/11/2011	6179	16.93	34634
1FPPOOL	F2K106	1F2	1995/12/22	3/11/2011	5558	15.23	31806
1FPPOOL	F2K124	1F2	1995/12/22	3/11/2011	5558	15.23	30753
1FPPOOL	F2K71	1F2	1994/4/10	3/11/2011	6179	16.93	32386
1FPPOOL	F2KN1	1F2	1994/4/10	3/11/2011	6179	16.93	32009
1FPPOOL	F2KN2	1F2	1994/4/10	3/11/2011	6179	16.93	32012
1FPPOOL	F2K117	1F2	1995/12/22	3/11/2011	5558	15.23	29617
1FPPOOL	F2KN6	1F2	1994/4/10	3/11/2011	6179	16.93	35241
1FPPOOL	F2K102	1F2	1994/4/10	3/11/2011	6179	16.93	34556
1FPPOOL	F2KN18	1F2	1994/4/10	3/11/2011	6179	16.93	30960
1FPPOOL	F2K74	1F2	1994/4/10	3/11/2011	6179	16.93	32136
1FPPOOL	F2K79	1F2	1993/1/16	3/11/2011	6628	18.16	27972
1FPPOOL	F2K69	1F2	1994/4/10	3/11/2011	6179	16.93	34603
1FPPOOL	F2K89	1F2	1994/4/10	3/11/2011	6179	16.93	30770
1FPPOOL	F2K93	1F2	1994/4/10	3/11/2011	6179	16.93	34584
1FPPOOL	F2K94	1F2	1994/4/10	3/11/2011	6179	16.93	34609
1FPPOOL	F2K80	1F2	1993/1/16	3/11/2011	6628	18.16	27995
1FPPOOL	F2K63	1F2	1994/4/10	3/11/2011	6179	16.93	30292
1FPPOOL	F2K88	1F2	1995/12/22	3/11/2011	5558	15.23	30149
1FPPOOL	F2K107	1F2	1995/12/22	3/11/2011	5558	15.23	32567
1FPPOOL	F2K112	1F2	1995/12/22	3/11/2011	5558	15.23	32563
1FPPOOL	F2K81	1F2	1994/4/10	3/11/2011	6179	16.93	32006
1FPPOOL	F2K83	1F2	1994/4/10	3/11/2011	6179	16.93	30706
1FPPOOL	F2K84	1F2	1994/4/10	3/11/2011	6179	16.93	30657
1FPPOOL	F2L19	1F2	1997/2/18	3/11/2011	5134	14.07	29310
1FPPOOL	F2L18	1F2	1995/12/22	3/11/2011	5558	15.23	30763
1FPPOOL	F2L40	1F2	1995/12/22	3/11/2011	5558	15.23	30214
1FPPOOL	F2L17	1F2	1995/12/22	3/11/2011	5558	15.23	30685
1FPPOOL	F2L29	1F2	1995/12/22	3/11/2011	5558	15.23	30652
1FPPOOL	F2L35	1F2	1995/12/22	3/11/2011	5558	15.23	32687
1FPPOOL	F2KN23	1F2	1993/1/16	3/11/2011	6628	18.16	28243
1FPPOOL	F2L50	1F2	1994/4/10	3/11/2011	6179	16.93	28490
1FPPOOL	F2L51	1F2	1994/4/10	3/11/2011	6179	16.93	28477
1FPPOOL	F2L5	1F2	1995/12/22	3/11/2011	5558	15.23	30372
1FPPOOL	F2L8	1F2	1995/12/22	3/11/2011	5558	15.23	30803
1FPPOOL	F2L10	1F2	1994/4/10	3/11/2011	6179	16.93	27359
1FPPOOL	F2L11	1F2	1994/4/10	3/11/2011	6179	16.93	27311
1FPPOOL	F2L3	1F2	1994/4/10	3/11/2011	6179	16.93	26772
1FPPOOL	F2L14	1F2	1997/2/18	3/11/2011	5134	14.07	29397
1FPPOOL	F2L26	1F2	1995/12/22	3/11/2011	5558	15.23	30673
1FPPOOL	F2KN31	1F2	1994/4/10	3/11/2011	6179	16.93	32030
1FPPOOL	F2L12	1F2	1995/12/22	3/11/2011	5558	15.23	30802
1FPPOOL	F2KN27	1F2	1994/4/10	3/11/2011	6179	16.93	35306
1FPPOOL	F2L16	1F2	1995/12/22	3/11/2011	5558	15.23	30732
1FPPOOL	F2L4	1F2	1994/4/10	3/11/2011	6179	16.93	27259
1FPPOOL	F2L22	1F2	1995/12/22	3/11/2011	5558	15.23	32748
1FPPOOL	F2L9	1F2	1994/4/10	3/11/2011	6179	16.93	26813
1FPPOOL	F2KN30	1F2	1994/4/10	3/11/2011	6179	16.93	35313
1FPPOOL	F2L27	1F2	1994/4/10	3/11/2011	6179	16.93	28796
1FPPOOL	F2L44	1F2	1995/12/22	3/11/2011	5558	15.23	30211

1FPPOOL	F2L53	1F2	1995/12/22	3/11/2011	5558	15.23	30137
1FPPOOL	F2L39	1F2	1994/4/10	3/11/2011	6179	16.93	28801
1FPPOOL	F2L28	1F2	1994/4/10	3/11/2011	6179	16.93	28763
1FPPOOL	F2KN19	1F2	1993/1/16	3/11/2011	6628	18.16	30367
1FPPOOL	F2L7	1F2	1994/4/10	3/11/2011	6179	16.93	27174
1FPPOOL	F2L47	1F2	1995/12/22	3/11/2011	5558	15.23	30012
1FPPOOL	F2L42	1F2	1994/4/10	3/11/2011	6179	16.93	28457
1FPPOOL	F2L43	1F2	1994/4/10	3/11/2011	6179	16.93	28454
1FPPOOL	F2KN20	1F2	1993/1/16	3/11/2011	6628	18.16	30351
1FPPOOL	F2L1	1F2	1995/12/22	3/11/2011	5558	15.23	30171
1FPPOOL	F2KN21	1F2	1994/4/10	3/11/2011	6179	16.93	35270
1FPPOOL	F2KN22	1F2	1994/4/10	3/11/2011	6179	16.93	35338
1FPPOOL	F2L36	1F2	1994/4/10	3/11/2011	6179	16.93	27379
1FPPOOL	F2KN32	1F2	1994/4/10	3/11/2011	6179	16.93	31903
1FPPOOL	F2L21	1F2	1994/4/10	3/11/2011	6179	16.93	26785
1FPPOOL	F2KN24	1F2	1993/1/16	3/11/2011	6628	18.16	28237
1FPPOOL	F2L2	1F2	1995/12/22	3/11/2011	5558	15.23	30070
1FPPOOL	F2L13	1F2	1995/12/22	3/11/2011	5558	15.23	30710
1FPPOOL	F2L49	1F2	1995/12/22	3/11/2011	5558	15.23	30116
1FPPOOL	F2KN28	1F2	1993/1/16	3/11/2011	6628	18.16	30274
1FPPOOL	F2L30	1F2	1994/4/10	3/11/2011	6179	16.93	27232
1FPPOOL	F2L34	1F2	1994/4/10	3/11/2011	6179	16.93	28440
1FPPOOL	F2L38	1F2	1994/4/10	3/11/2011	6179	16.93	28736
1FPPOOL	F2L31	1F2	1994/4/10	3/11/2011	6179	16.93	27408
1FPPOOL	F2L33	1F2	1994/4/10	3/11/2011	6179	16.93	28459
1FPPOOL	F2L20	1F2	1995/12/22	3/11/2011	5558	15.23	30699
1FPPOOL	F2L41	1F2	1995/12/22	3/11/2011	5558	15.23	30128
1FPPOOL	F2KN29	1F2	1993/1/16	3/11/2011	6628	18.16	30277
1FPPOOL	F2L6	1F2	1995/12/22	3/11/2011	5558	15.23	30289
1FPPOOL	F2KN25	1F2	1993/1/16	3/11/2011	6628	18.16	28246
1FPPOOL	F2KN26	1F2	1993/1/16	3/11/2011	6628	18.16	28245
1FPPOOL	F2L23	1F2	1995/12/22	3/11/2011	5558	15.23	32750
1FPPOOL	F2L24	1F2	1994/4/10	3/11/2011	6179	16.93	26772
1FPPOOL	F2L46	1F2	1995/12/22	3/11/2011	5558	15.23	30040
1FPPOOL	F2L73	1F2	1995/12/22	3/11/2011	5558	15.23	30668
1FPPOOL	F2L32	1F2	1995/12/22	3/11/2011	5558	15.23	32655
1FPPOOL	F2L25	1F2	1994/4/10	3/11/2011	6179	16.93	27335
1FPPOOL	F2L48	1F2	1995/12/22	3/11/2011	5558	15.23	30163
1FPPOOL	F2L15	1F2	1995/12/22	3/11/2011	5558	15.23	30588
1FPPOOL	F2L37	1F2	1995/12/22	3/11/2011	5558	15.23	30137
1FPPOOL	F2L52	1F2	1995/12/22	3/11/2011	5558	15.23	30272
1FPPOOL	F2L45	1F2	1995/12/22	3/11/2011	5558	15.23	30058
1FPPOOL	F2L98	1F2	1994/4/10	3/11/2011	6179	16.93	28848
1FPPOOL	F2L119	1F2	1994/4/10	3/11/2011	6179	16.93	28418
1FPPOOL	F2L127	1F2	1995/12/22	3/11/2011	5558	15.23	28383
1FPPOOL	F2L128	1F2	1995/12/22	3/11/2011	5558	15.23	28338
1FPPOOL	F2L134	1F2	1995/12/22	3/11/2011	5558	15.23	28397
1FPPOOL	F2L118	1F2	1995/12/22	3/11/2011	5558	15.23	29942
1FPPOOL	F2L120	1F2	1994/4/10	3/11/2011	6179	16.93	28393
1FPPOOL	F2L64	1F2	1995/12/22	3/11/2011	5558	15.23	30728
1FPPOOL	F2L83	1F2	1994/4/10	3/11/2011	6179	16.93	27316
1FPPOOL	F2L70	1F2	1995/12/22	3/11/2011	5558	15.23	32732
1FPPOOL	F2L89	1F2	1994/4/10	3/11/2011	6179	16.93	27321

1FPPOOL	F2L75	1F2	1995/12/22	3/11/2011	5558	15.23	30613
1FPPOOL	F2L58	1F2	1995/12/22	3/11/2011	5558	15.23	32709
1FPPOOL	F2L84	1F2	1994/4/10	3/11/2011	6179	16.93	26856
1FPPOOL	F2L104	1F2	1994/4/10	3/11/2011	6179	16.93	28406
1FPPOOL	F2L90	1F2	1994/4/10	3/11/2011	6179	16.93	26796
1FPPOOL	F2L139	1F2	1995/12/22	3/11/2011	5558	15.23	28451
1FPPOOL	F2L74	1F2	1997/2/18	3/11/2011	5134	14.07	29380
1FPPOOL	F2L57	1F2	1994/4/10	3/11/2011	6179	16.93	27474
1FPPOOL	F2L105	1F2	1994/4/10	3/11/2011	6179	16.93	28914
1FPPOOL	F2L111	1F2	1994/4/10	3/11/2011	6179	16.93	28252
1FPPOOL	F2L112	1F2	1994/4/10	3/11/2011	6179	16.93	28268
1FPPOOL	F2L95	1F2	1995/12/22	3/11/2011	5558	15.23	29781
1FPPOOL	F2L77	1F2	1994/4/10	3/11/2011	6179	16.93	26755
1FPPOOL	F2L100	1F2	1994/4/10	3/11/2011	6179	16.93	28474
1FPPOOL	F2L122	1F2	1995/12/22	3/11/2011	5558	15.23	28437
1FPPOOL	F2L129	1F2	1995/12/22	3/11/2011	5558	15.23	28346
1FPPOOL	F2L113	1F2	1994/4/10	3/11/2011	6179	16.93	28537
1FPPOOL	F2L114	1F2	1994/4/10	3/11/2011	6179	16.93	28451
1FPPOOL	F2L135	1F2	1995/12/22	3/11/2011	5558	15.23	28415
1FPPOOL	F2LN2	1F2	1995/12/22	3/11/2011	5558	15.23	33349
1FPPOOL	F2L65	1F2	1994/4/10	3/11/2011	6179	16.93	28820
1FPPOOL	F2L71	1F2	1995/12/22	3/11/2011	5558	15.23	32761
1FPPOOL	F2L136	1F2	1997/2/18	3/11/2011	5134	14.07	30708
1FPPOOL	F2LN4	1F2	1995/12/22	3/11/2011	5558	15.23	30897
1FPPOOL	F2L140	1F2	1995/12/22	3/11/2011	5558	15.23	28445
1FPPOOL	F2L56	1F2	1995/12/22	3/11/2011	5558	15.23	30303
1FPPOOL	F2L78	1F2	1995/12/22	3/11/2011	5558	15.23	30805
1FPPOOL	F2L85	1F2	1994/4/10	3/11/2011	6179	16.93	26770
1FPPOOL	F2L106	1F2	1994/4/10	3/11/2011	6179	16.93	28919
1FPPOOL	F2LN5	1F2	1997/2/18	3/11/2011	5134	14.07	30107
1FPPOOL	F2LN1	1F2	1995/12/22	3/11/2011	5558	15.23	33400
1FPPOOL	F2L99	1F2	1994/4/10	3/11/2011	6179	16.93	28416
1FPPOOL	F2L107	1F2	1994/4/10	3/11/2011	6179	16.93	28954
1FPPOOL	F2L91	1F2	1995/12/22	3/11/2011	5558	15.23	30227
1FPPOOL	F2LN3	1F2	1995/12/22	3/11/2011	5558	15.23	30799
1FPPOOL	F2LN6	1F2	1997/2/18	3/11/2011	5134	14.07	30112
1FPPOOL	F2L131	1F2	1995/12/22	3/11/2011	5558	15.23	28359
1FPPOOL	F2L66	1F2	1994/4/10	3/11/2011	6179	16.93	28780
1FPPOOL	F2L137	1F2	1997/2/18	3/11/2011	5134	14.07	30820
1FPPOOL	F2L124	1F2	1997/2/18	3/11/2011	5134	14.07	30728
1FPPOOL	F2L60	1F2	1994/4/10	3/11/2011	6179	16.93	28492
1FPPOOL	F2L130	1F2	1995/12/22	3/11/2011	5558	15.23	28433
1FPPOOL	F2L121	1F2	1995/12/22	3/11/2011	5558	15.23	28526
1FPPOOL	F2L62	1F2	1994/4/10	3/11/2011	6179	16.93	27434
1FPPOOL	F2L115	1F2	1994/4/10	3/11/2011	6179	16.93	28949
1FPPOOL	F2L123	1F2	1995/12/22	3/11/2011	5558	15.23	28386
1FPPOOL	F2L80	1F2	1994/4/10	3/11/2011	6179	16.93	26784
1FPPOOL	F2L86	1F2	1994/4/10	3/11/2011	6179	16.93	27304
1FPPOOL	F2L87	1F2	1995/12/22	3/11/2011	5558	15.23	30410
1FPPOOL	F2L68	1F2	1994/4/10	3/11/2011	6179	16.93	27361
1FPPOOL	F2L59	1F2	1994/4/10	3/11/2011	6179	16.93	28499
1FPPOOL	F2L79	1F2	1997/2/18	3/11/2011	5134	14.07	29385
1FPPOOL	F2L101	1F2	1994/4/10	3/11/2011	6179	16.93	28249

1FPPOOL	F2LN8	1F2	1995/12/22	3/11/2011	5558	15.23	31334
1FPPOOL	F2L108	1F2	1994/4/10	3/11/2011	6179	16.93	28922
1FPPOOL	F2L109	1F2	1994/4/10	3/11/2011	6179	16.93	28438
1FPPOOL	F2L132	1F2	1995/12/22	3/11/2011	5558	15.23	28461
1FPPOOL	F2L92	1F2	1997/2/18	3/11/2011	5134	14.07	31822
1FPPOOL	F2LN7	1F2	1995/12/22	3/11/2011	5558	15.23	31373
1FPPOOL	F2L102	1F2	1994/4/10	3/11/2011	6179	16.93	28245
1FPPOOL	F2L126	1F2	1995/12/22	3/11/2011	5558	15.23	28536
1FPPOOL	F2L63	1F2	1994/4/10	3/11/2011	6179	16.93	27328
1FPPOOL	F2L133	1F2	1995/12/22	3/11/2011	5558	15.23	28399
1FPPOOL	F2L69	1F2	1994/4/10	3/11/2011	6179	16.93	26840
1FPPOOL	F2L116	1F2	1994/4/10	3/11/2011	6179	16.93	28889
1FPPOOL	F2L117	1F2	1995/12/22	3/11/2011	5558	15.23	29805
1FPPOOL	F2L138	1F2	1995/12/22	3/11/2011	5558	15.23	28554
1FPPOOL	F2L72	1F2	1994/4/10	3/11/2011	6179	16.93	26859
1FPPOOL	F2L97	1F2	1994/4/10	3/11/2011	6179	16.93	28873
1FPPOOL	F2L125	1F2	1997/2/18	3/11/2011	5134	14.07	30854
1FPPOOL	F2LN9	1F2	1995/12/22	3/11/2011	5558	15.23	31101
1FPPOOL	F2L67	1F2	1995/12/22	3/11/2011	5558	15.23	30701
1FPPOOL	F2L94	1F2	1994/4/10	3/11/2011	6179	16.93	28305
1FPPOOL	F2L96	1F2	1995/12/22	3/11/2011	5558	15.23	29850
1FPPOOL	F2L61	1F2	1995/12/22	3/11/2011	5558	15.23	32713
1FPPOOL	F2L82	1F2	1994/4/10	3/11/2011	6179	16.93	27380
1FPPOOL	F2L88	1F2	1995/12/22	3/11/2011	5558	15.23	30387
1FPPOOL	F2L54	1F2	1994/4/10	3/11/2011	6179	16.93	28759
1FPPOOL	F2L55	1F2	1994/4/10	3/11/2011	6179	16.93	28805
1FPPOOL	F2L81	1F2	1994/4/10	3/11/2011	6179	16.93	26854
1FPPOOL	F2L103	1F2	1994/4/10	3/11/2011	6179	16.93	28402
1FPPOOL	F2L110	1F2	1994/4/10	3/11/2011	6179	16.93	28574
1FPPOOL	F2L93	1F2	1994/4/10	3/11/2011	6179	16.93	28379
1FPPOOL	F2L76	1F2	1995/12/22	3/11/2011	5558	15.23	30741
1FPPOOL	F2M16	1F2	1997/2/18	3/11/2011	5134	14.07	31300
1FPPOOL	F2M43	1F2	1995/12/22	3/11/2011	5558	15.23	28386
1FPPOOL	F2M50	1F2	1995/12/22	3/11/2011	5558	15.23	27550
1FPPOOL	F2LN20	1F2	1995/12/22	3/11/2011	5558	15.23	30555
1FPPOOL	F2M34	1F2	1995/12/22	3/11/2011	5558	15.23	28041
1FPPOOL	F2M55	1F2	1995/12/22	3/11/2011	5558	15.23	28090
1FPPOOL	F2M35	1F2	1995/12/22	3/11/2011	5558	15.23	28992
1FPPOOL	F2LN17	1F2	1995/12/22	3/11/2011	5558	15.23	33312
1FPPOOL	F2LN22	1F2	1997/2/18	3/11/2011	5134	14.07	30092
1FPPOOL	F2M33	1F2	1995/12/22	3/11/2011	5558	15.23	28138
1FPPOOL	F2LN12	1F2	1997/2/18	3/11/2011	5134	14.07	30112
1FPPOOL	F2M1	1F2	1997/2/18	3/11/2011	5134	14.07	31764
1FPPOOL	F2M2	1F2	1997/2/18	3/11/2011	5134	14.07	31748
1FPPOOL	F2M22	1F2	1995/12/22	3/11/2011	5558	15.23	28858
1FPPOOL	F2M7	1F2	1997/2/18	3/11/2011	5134	14.07	33736
1FPPOOL	F2M8	1F2	1995/12/22	3/11/2011	5558	15.23	27725
1FPPOOL	F2M54	1F2	1995/12/22	3/11/2011	5558	15.23	28758
1FPPOOL	F2LN29	1F2	1995/12/22	3/11/2011	5558	15.23	30740
1FPPOOL	F2M23	1F2	1995/12/22	3/11/2011	5558	15.23	28799
1FPPOOL	F2M42	1F2	1995/12/22	3/11/2011	5558	15.23	27483
1FPPOOL	F2M28	1F2	1997/2/18	3/11/2011	5134	14.07	31249
1FPPOOL	F2M49	1F2	1995/12/22	3/11/2011	5558	15.23	28169

1FPPOOL	F2M13	1F2	1997/2/18	3/11/2011	5134	14.07	30345
1FPPOOL	F2LN28	1F2	1997/2/18	3/11/2011	5134	14.07	30153
1FPPOOL	F2M18	1F2	1995/12/22	3/11/2011	5558	15.23	28443
1FPPOOL	F2M44	1F2	1995/12/22	3/11/2011	5558	15.23	28547
1FPPOOL	F2M45	1F2	1995/12/22	3/11/2011	5558	15.23	28433
1FPPOOL	F2M57	1F2	1995/12/22	3/11/2011	5558	15.23	28984
1FPPOOL	F2M58	1F2	1997/2/18	3/11/2011	5134	14.07	30496
1FPPOOL	F2LN18	1F2	1995/12/22	3/11/2011	5558	15.23	33529
1FPPOOL	F2LN23	1F2	1995/12/22	3/11/2011	5558	15.23	31118
1FPPOOL	F2M51	1F2	1997/2/18	3/11/2011	5134	14.07	32199
1FPPOOL	F2LN11	1F2	1997/2/18	3/11/2011	5134	14.07	29970
1FPPOOL	F2M3	1F2	1997/2/18	3/11/2011	5134	14.07	33552
1FPPOOL	F2M61	1F2	1997/2/18	3/11/2011	5134	14.07	31085
1FPPOOL	F2M62	1F2	1995/12/22	3/11/2011	5558	15.23	27312
1FPPOOL	F2M56	1F2	1995/12/22	3/11/2011	5558	15.23	28074
1FPPOOL	F2LN30	1F2	1995/12/22	3/11/2011	5558	15.23	30908
1FPPOOL	F2M17	1F2	1995/12/22	3/11/2011	5558	15.23	28497
1FPPOOL	F2M24	1F2	1997/2/18	3/11/2011	5134	14.07	31567
1FPPOOL	F2M46	1F2	1995/12/22	3/11/2011	5558	15.23	28596
1FPPOOL	F2M9	1F2	1997/2/18	3/11/2011	5134	14.07	31590
1FPPOOL	F2M59	1F2	1997/2/18	3/11/2011	5134	14.07	31237
1FPPOOL	F2M39	1F2	1995/12/22	3/11/2011	5558	15.23	27304
1FPPOOL	F2M64	1F2	1997/2/18	3/11/2011	5134	14.07	31478
1FPPOOL	F2M36	1F2	1997/2/18	3/11/2011	5134	14.07	30399
1FPPOOL	F2M47	1F2	1995/12/22	3/11/2011	5558	15.23	27285
1FPPOOL	F2M52	1F2	1997/2/18	3/11/2011	5134	14.07	32185
1FPPOOL	F2M53	1F2	1997/2/18	3/11/2011	5134	14.07	30288
1FPPOOL	F2M65	1F2	1997/2/18	3/11/2011	5134	14.07	31579
1FPPOOL	F2M40	1F2	1995/12/22	3/11/2011	5558	15.23	27972
1FPPOOL	F2M37	1F2	1997/2/18	3/11/2011	5134	14.07	32100
1FPPOOL	F2LN16	1F2	1995/12/22	3/11/2011	5558	15.23	33500
1FPPOOL	F2M30	1F2	1997/2/18	3/11/2011	5134	14.07	31402
1FPPOOL	F2M38	1F2	1997/2/18	3/11/2011	5134	14.07	32209
1FPPOOL	F2LN14	1F2	1995/12/22	3/11/2011	5558	15.23	30502
1FPPOOL	F2LN31	1F2	1995/12/22	3/11/2011	5558	15.23	33425
1FPPOOL	F2M4	1F2	1997/2/18	3/11/2011	5134	14.07	33517
1FPPOOL	F2M5	1F2	1995/12/22	3/11/2011	5558	15.23	27803
1FPPOOL	F2M25	1F2	1997/2/18	3/11/2011	5134	14.07	31188
1FPPOOL	F2LN21	1F2	1997/2/18	3/11/2011	5134	14.07	30005
1FPPOOL	F2LN13	1F2	1995/12/22	3/11/2011	5558	15.23	30524
1FPPOOL	F2M93	1F2	1997/2/18	3/11/2011	5134	14.07	31381
1FPPOOL	F2M63	1F2	1997/2/18	3/11/2011	5134	14.07	29785
1FPPOOL	F2M10	1F2	1997/2/18	3/11/2011	5134	14.07	30473
1FPPOOL	F2M19	1F2	1997/2/18	3/11/2011	5134	14.07	31228
1FPPOOL	F2M20	1F2	1995/12/22	3/11/2011	5558	15.23	27812
1FPPOOL	F2M41	1F2	1995/12/22	3/11/2011	5558	15.23	28120
1FPPOOL	F2M48	1F2	1995/12/22	3/11/2011	5558	15.23	27949
1FPPOOL	F2M31	1F2	1997/2/18	3/11/2011	5134	14.07	30289
1FPPOOL	F2M12	1F2	1995/12/22	3/11/2011	5558	15.23	27318
1FPPOOL	F2M14	1F2	1997/2/18	3/11/2011	5134	14.07	31585
1FPPOOL	F2LN26	1F2	1995/12/22	3/11/2011	5558	15.23	31417
1FPPOOL	F2M15	1F2	1995/12/22	3/11/2011	5558	15.23	27592
1FPPOOL	F2M66	1F2	1995/12/22	3/11/2011	5558	15.23	28888

1FPPOOL	F2M32	1F2	1995/12/22	3/11/2011	5558	15.23	28742
1FPPOOL	F2LN15	1F2	1995/12/22	3/11/2011	5558	15.23	33261
1FPPOOL	F2LN19	1F2	1995/12/22	3/11/2011	5558	15.23	30471
1FPPOOL	F2LN32	1F2	1995/12/22	3/11/2011	5558	15.23	33439
1FPPOOL	F2M6	1F2	1997/2/18	3/11/2011	5134	14.07	33687
1FPPOOL	F2LN24	1F2	1995/12/22	3/11/2011	5558	15.23	31299
1FPPOOL	F2M86	1F2	1997/2/18	3/11/2011	5134	14.07	33555
1FPPOOL	F2LN25	1F2	1995/12/22	3/11/2011	5558	15.23	31399
1FPPOOL	F2LN10	1F2	1995/12/22	3/11/2011	5558	15.23	31220
1FPPOOL	F2M21	1F2	1997/2/18	3/11/2011	5134	14.07	31429
1FPPOOL	F2M27	1F2	1997/2/18	3/11/2011	5134	14.07	31045
1FPPOOL	F2M11	1F2	1995/12/22	3/11/2011	5558	15.23	27430
1FPPOOL	F2LN27	1F2	1997/2/18	3/11/2011	5134	14.07	30232
1FPPOOL	F2M108	1F2	1997/2/18	3/11/2011	5134	14.07	29859
1FPPOOL	F2M109	1F2	1995/12/22	3/11/2011	5558	15.23	27308
1FPPOOL	F2M132	1F2	1997/2/18	3/11/2011	5134	14.07	30179
1FPPOOL	F2M76	1F2	1997/2/18	3/11/2011	5134	14.07	30572
1FPPOOL	F2M82	1F2	1997/2/18	3/11/2011	5134	14.07	33808
1FPPOOL	F2M123	1F2	1997/2/18	3/11/2011	5134	14.07	30738
1FPPOOL	F2M148	1F2	1997/2/18	3/11/2011	5134	14.07	29988
1FPPOOL	F2M125	1F2	1997/2/18	3/11/2011	5134	14.07	29886
1FPPOOL	F2M70	1F2	1995/12/22	3/11/2011	5558	15.23	27279
1FPPOOL	F2M77	1F2	1995/12/22	3/11/2011	5558	15.23	27505
1FPPOOL	F2M83	1F2	1997/2/18	3/11/2011	5134	14.07	33806
1FPPOOL	F2M71	1F2	1995/12/22	3/11/2011	5558	15.23	28529
1FPPOOL	F2M96	1F2	1997/2/18	3/11/2011	5134	14.07	29727
1FPPOOL	F2M119	1F2	1997/2/18	3/11/2011	5134	14.07	30689
1FPPOOL	F2M145	1F2	1997/2/18	3/11/2011	5134	14.07	30102
1FPPOOL	F2M110	1F2	1995/12/22	3/11/2011	5558	15.23	27298
1FPPOOL	F2M133	1F2	1997/2/18	3/11/2011	5134	14.07	30064
1FPPOOL	F2M139	1F2	1997/2/18	3/11/2011	5134	14.07	29786
1FPPOOL	F2M146	1F2	1997/2/18	3/11/2011	5134	14.07	29770
1FPPOOL	F2M78	1F2	1995/12/22	3/11/2011	5558	15.23	27465
1FPPOOL	F2M84	1F2	1995/12/22	3/11/2011	5558	15.23	27856
1FPPOOL	F2M140	1F2	1997/2/18	3/11/2011	5134	14.07	29986
1FPPOOL	F2M69	1F2	1995/12/22	3/11/2011	5558	15.23	27683
1FPPOOL	F2M97	1F2	1997/2/18	3/11/2011	5134	14.07	30641
1FPPOOL	F2M98	1F2	1997/2/18	3/11/2011	5134	14.07	30648
1FPPOOL	F2M102	1F2	1997/2/18	3/11/2011	5134	14.07	30634
1FPPOOL	F2M127	1F2	1995/12/22	3/11/2011	5558	15.23	27283
1FPPOOL	F2M126	1F2	1997/2/18	3/11/2011	5134	14.07	29814
1FPPOOL	F2M68	1F2	1997/2/18	3/11/2011	5134	14.07	31564
1FPPOOL	F2M75	1F2	1997/2/18	3/11/2011	5134	14.07	31719
1FPPOOL	F2M128	1F2	1995/12/22	3/11/2011	5558	15.23	27338
1FPPOOL	F2M94	1F2	1997/2/18	3/11/2011	5134	14.07	31263
1FPPOOL	F2M99	1F2	1997/2/18	3/11/2011	5134	14.07	30627
1FPPOOL	F2M81	1F2	1995/12/22	3/11/2011	5558	15.23	27832
1FPPOOL	F2M72	1F2	1995/12/22	3/11/2011	5558	15.23	28520
1FPPOOL	F2M153	1F2	1997/2/18	3/11/2011	5134	14.07	30155
1FPPOOL	F2M116	1F2	1997/2/18	3/11/2011	5134	14.07	29870
1FPPOOL	F2M111	1F2	1995/12/22	3/11/2011	5558	15.23	27279
1FPPOOL	F2M112	1F2	1995/12/22	3/11/2011	5558	15.23	27362
1FPPOOL	F2M122	1F2	1997/2/18	3/11/2011	5134	14.07	30686

1FPPOOL	F2M124	1F2	1997/2/18	3/11/2011	5134	14.07	30713
1FPPOOL	F2M85	1F2	1997/2/18	3/11/2011	5134	14.07	33683
1FPPOOL	F2M73	1F2	1997/2/18	3/11/2011	5134	14.07	31335
1FPPOOL	F2M80	1F2	1997/2/18	3/11/2011	5134	14.07	31625
1FPPOOL	F2M74	1F2	1995/12/22	3/11/2011	5558	15.23	27928
1FPPOOL	F2M79	1F2	1997/2/18	3/11/2011	5134	14.07	30527
1FPPOOL	F2M95	1F2	1997/2/18	3/11/2011	5134	14.07	29737
1FPPOOL	F2M67	1F2	1995/12/22	3/11/2011	5558	15.23	28846
1FPPOOL	F2M87	1F2	1997/2/18	3/11/2011	5134	14.07	31833
1FPPOOL	F2MN30	1F2	1997/2/18	3/11/2011	5134	14.07	29790
1FPPOOL	F2MN13	1F2	1997/2/18	3/11/2011	5134	14.07	30504
1FPPOOL	F2MN27	1F2	1997/2/18	3/11/2011	5134	14.07	29776
1FPPOOL	F2MN19	1F2	1997/2/18	3/11/2011	5134	14.07	30592
1FPPOOL	F2MN14	1F2	1997/2/18	3/11/2011	5134	14.07	30613
1FPPOOL	F2MN23	1F2	1997/2/18	3/11/2011	5134	14.07	30825
1FPPOOL	F2MN24	1F2	1997/2/18	3/11/2011	5134	14.07	30777
1FPPOOL	F2MN28	1F2	1997/2/18	3/11/2011	5134	14.07	29747
1FPPOOL	F2MN7	1F2	1997/2/18	3/11/2011	5134	14.07	30640
1FPPOOL	F2MN20	1F2	1997/2/18	3/11/2011	5134	14.07	30695
1FPPOOL	F2MN4	1F2	1997/2/18	3/11/2011	5134	14.07	29727
1FPPOOL	F2M160	1F2	1997/2/18	3/11/2011	5134	14.07	30081
1FPPOOL	F2N52	1F2	1997/2/18	3/11/2011	5134	14.07	29969
1FPPOOL	F2MN25	1F2	1997/2/18	3/11/2011	5134	14.07	30647
1FPPOOL	F2MN29	1F2	1997/2/18	3/11/2011	5134	14.07	29789
1FPPOOL	F2N53	1F2	1997/2/18	3/11/2011	5134	14.07	29843
1FPPOOL	F2M161	1F2	1997/2/18	3/11/2011	5134	14.07	30046
1FPPOOL	F2M164	1F2	1997/2/18	3/11/2011	5134	14.07	29740
1FPPOOL	F2MN3	1F2	1997/2/18	3/11/2011	5134	14.07	29789
1FPPOOL	F2MN26	1F2	1997/2/18	3/11/2011	5134	14.07	30783
1FPPOOL	F2MN8	1F2	1997/2/18	3/11/2011	5134	14.07	30742
1FPPOOL	F2MN9	1F2	1997/2/18	3/11/2011	5134	14.07	30824
1FPPOOL	F2MN10	1F2	1997/2/18	3/11/2011	5134	14.07	30759
1FPPOOL	F2NN2	1F2	1997/2/18	3/11/2011	5134	14.07	30166
1FPPOOL	F2N69	1F2	1997/2/18	3/11/2011	5134	14.07	30021
1FPPOOL	F2N75	1F2	1997/2/18	3/11/2011	5134	14.07	29854
1FPPOOL	F2N58	1F2	1997/2/18	3/11/2011	5134	14.07	29774
1FPPOOL	F2NN11	1F2	1997/2/18	3/11/2011	5134	14.07	30315
1FPPOOL	F2N68	1F2	1997/2/18	3/11/2011	5134	14.07	29902
1FPPOOL	F2N59	1F2	1997/2/18	3/11/2011	5134	14.07	29970
1FPPOOL	F2NN12	1F2	1997/2/18	3/11/2011	5134	14.07	30186
1FPPOOL	F2NN5	1F2	1997/2/18	3/11/2011	5134	14.07	30045
1FPPOOL	F2NN1	1F2	1997/2/18	3/11/2011	5134	14.07	30196
1FPPOOL	F2NN6	1F2	1997/2/18	3/11/2011	5134	14.07	30279
1FPPOOL	F2NN7	1F2	1997/2/18	3/11/2011	5134	14.07	30193
1FPPOOL	F2NN8	1F2	1997/2/18	3/11/2011	5134	14.07	30247
1FPPOOL	F2N74	1F2	1997/2/18	3/11/2011	5134	14.07	30013
1FPPOOL	F3G27	1F3	1990/3/10	3/11/2011	7671	21.02	37586
1FPPOOL	F3G28	1F3	1990/3/10	3/11/2011	7671	21.02	37605
1FPPOOL	F3G25	1F3	1990/3/10	3/11/2011	7671	21.02	37653
1FPPOOL	F3G26	1F3	1990/3/10	3/11/2011	7671	21.02	37604
1FPPOOL	F3H139	1F3	1991/9/18	3/11/2011	7114	19.49	37189
1FPPOOL	F3H138	1F3	1991/9/18	3/11/2011	7114	19.49	37178
1FPPOOL	F3H136	1F3	1991/9/18	3/11/2011	7114	19.49	37190

1FPPOOL	F3H137	1F3	1991/9/18	3/11/2011	7114	19.49	37167
1FPPOOL	F3K75	1F3	1993/2/22	3/11/2011	6591	18.06	29423
1FPPOOL	F3K80	1F3	1993/2/22	3/11/2011	6591	18.06	25871
1FPPOOL	F3K19	1F3	1991/9/18	3/11/2011	7114	19.49	28364
1FPPOOL	F3K13	1F3	1991/9/18	3/11/2011	7114	19.49	28389
1FPPOOL	F3K40	1F3	1993/2/22	3/11/2011	6591	18.06	28687
1FPPOOL	F3K74	1F3	1993/2/22	3/11/2011	6591	18.06	29473
1FPPOOL	F3K62	1F3	1993/2/22	3/11/2011	6591	18.06	36586
1FPPOOL	F3K47	1F3	1991/9/18	3/11/2011	7114	19.49	27876
1FPPOOL	F3K77	1F3	1993/2/22	3/11/2011	6591	18.06	25914
1FPPOOL	F3K37	1F3	1993/2/22	3/11/2011	6591	18.06	28416
1FPPOOL	F3K65	1F3	1993/2/22	3/11/2011	6591	18.06	29563
1FPPOOL	F3K49	1F3	1991/9/18	3/11/2011	7114	19.49	27716
1FPPOOL	F3K78	1F3	1993/2/22	3/11/2011	6591	18.06	25902
1FPPOOL	F3K71	1F3	1993/2/22	3/11/2011	6591	18.06	32286
1FPPOOL	F3K81	1F3	1993/2/22	3/11/2011	6591	18.06	25518
1FPPOOL	F3K14	1F3	1991/9/18	3/11/2011	7114	19.49	28455
1FPPOOL	F3K16	1F3	1991/9/18	3/11/2011	7114	19.49	28440
1FPPOOL	F3K82	1F3	1993/2/22	3/11/2011	6591	18.06	25513
1FPPOOL	F3K83	1F3	1993/2/22	3/11/2011	6591	18.06	25511
1FPPOOL	F3K76	1F3	1993/2/22	3/11/2011	6591	18.06	29472
1FPPOOL	F3K15	1F3	1991/9/18	3/11/2011	7114	19.49	28386
1FPPOOL	F3K48	1F3	1991/9/18	3/11/2011	7114	19.49	27860
1FPPOOL	F3K50	1F3	1991/9/18	3/11/2011	7114	19.49	27703
1FPPOOL	F3K79	1F3	1993/2/22	3/11/2011	6591	18.06	25916
1FPPOOL	F3K84	1F3	1993/2/22	3/11/2011	6591	18.06	25491
1FPPOOL	F3K66	1F3	1993/2/22	3/11/2011	6591	18.06	29482
1FPPOOL	F3K73	1F3	1993/2/22	3/11/2011	6591	18.06	29404
1FPPOOL	F3K60	1F3	1993/2/22	3/11/2011	6591	18.06	27324
1FPPOOL	F3K85	1F3	1993/2/22	3/11/2011	6591	18.06	26732
1FPPOOL	F3K86	1F3	1993/2/22	3/11/2011	6591	18.06	26808
1FPPOOL	F3K39	1F3	1993/2/22	3/11/2011	6591	18.06	28676
1FPPOOL	F3K38	1F3	1993/2/22	3/11/2011	6591	18.06	28677
1FPPOOL	F3K68	1F3	1993/2/22	3/11/2011	6591	18.06	29502
1FPPOOL	F3K52	1F3	1991/9/18	3/11/2011	7114	19.49	27695
1FPPOOL	F3K87	1F3	1993/2/22	3/11/2011	6591	18.06	26779
1FPPOOL	F3K51	1F3	1991/9/18	3/11/2011	7114	19.49	27703
1FPPOOL	F3K45	1F3	1991/9/18	3/11/2011	7114	19.49	27871
1FPPOOL	F3K46	1F3	1991/9/18	3/11/2011	7114	19.49	27877
1FPPOOL	F3K67	1F3	1993/2/22	3/11/2011	6591	18.06	29549
1FPPOOL	F3K69	1F3	1993/2/22	3/11/2011	6591	18.06	32295
1FPPOOL	F3K133	1F3	1993/2/22	3/11/2011	6591	18.06	29393
1FPPOOL	F3KR4	1F3	1991/9/18	3/11/2011	7114	19.49	30939
1FPPOOL	F3KR3	1F3	1991/9/18	3/11/2011	7114	19.49	31020
1FPPOOL	F3L14	1F3	1993/2/22	3/11/2011	6591	18.06	29312
1FPPOOL	F3K91	1F3	1993/2/22	3/11/2011	6591	18.06	31406
1FPPOOL	F3K98	1F3	1991/9/18	3/11/2011	7114	19.49	27416
1FPPOOL	F3KR2	1F3	1991/9/18	3/11/2011	7114	19.49	30976
1FPPOOL	F3K92	1F3	1993/2/22	3/11/2011	6591	18.06	31428
1FPPOOL	F3K137	1F3	1993/2/22	3/11/2011	6591	18.06	29647
1FPPOOL	F3K126	1F3	1991/9/18	3/11/2011	7114	19.49	27368
1FPPOOL	F3K143	1F3	1993/2/22	3/11/2011	6591	18.06	26632
1FPPOOL	F3L19	1F3	1993/2/22	3/11/2011	6591	18.06	29342

1FPPOOL	F3L23	1F3	1993/2/22	3/11/2011	6591	18.06	32490
1FPPOOL	F3K134	1F3	1993/2/22	3/11/2011	6591	18.06	29599
1FPPOOL	F3K138	1F3	1993/2/22	3/11/2011	6591	18.06	29442
1FPPOOL	F3L13	1F3	1993/2/22	3/11/2011	6591	18.06	29331
1FPPOOL	F3KR1	1F3	1991/9/18	3/11/2011	7114	19.49	31020
1FPPOOL	F3L9	1F3	1993/2/22	3/11/2011	6591	18.06	29738
1FPPOOL	F3K99	1F3	1991/9/18	3/11/2011	7114	19.49	27410
1FPPOOL	F3L15	1F3	1993/2/22	3/11/2011	6591	18.06	29331
1FPPOOL	F3L22	1F3	1993/2/22	3/11/2011	6591	18.06	32483
1FPPOOL	F3L24	1F3	1993/2/22	3/11/2011	6591	18.06	32419
1FPPOOL	F3K90	1F3	1993/2/22	3/11/2011	6591	18.06	31402
1FPPOOL	F3K121	1F3	1991/9/18	3/11/2011	7114	19.49	28559
1FPPOOL	F3L29	1F3	1993/2/22	3/11/2011	6591	18.06	26876
1FPPOOL	F3L20	1F3	1993/2/22	3/11/2011	6591	18.06	29329
1FPPOOL	F3L21	1F3	1993/2/22	3/11/2011	6591	18.06	32530
1FPPOOL	F3K139	1F3	1993/2/22	3/11/2011	6591	18.06	29652
1FPPOOL	F3L8	1F3	1993/2/22	3/11/2011	6591	18.06	32347
1FPPOOL	F3K127	1F3	1991/9/18	3/11/2011	7114	19.49	27363
1FPPOOL	F3L30	1F3	1993/2/22	3/11/2011	6591	18.06	26919
1FPPOOL	F3L11	1F3	1993/2/22	3/11/2011	6591	18.06	29747
1FPPOOL	F3L17	1F3	1993/2/22	3/11/2011	6591	18.06	29380
1FPPOOL	F3K97	1F3	1991/9/18	3/11/2011	7114	19.49	27416
1FPPOOL	F3K120	1F3	1993/2/22	3/11/2011	6591	18.06	36046
1FPPOOL	F3K122	1F3	1991/9/18	3/11/2011	7114	19.49	28695
1FPPOOL	F3L16	1F3	1993/2/22	3/11/2011	6591	18.06	29326
1FPPOOL	F3L3	1F3	1993/2/22	3/11/2011	6591	18.06	31259
1FPPOOL	F3K117	1F3	1993/2/22	3/11/2011	6591	18.06	35893
1FPPOOL	F3K135	1F3	1993/2/22	3/11/2011	6591	18.06	29415
1FPPOOL	F3L32	1F3	1993/2/22	3/11/2011	6591	18.06	26948
1FPPOOL	F3K140	1F3	1993/2/22	3/11/2011	6591	18.06	29445
1FPPOOL	F3L10	1F3	1993/2/22	3/11/2011	6591	18.06	29694
1FPPOOL	F3L6	1F3	1993/2/22	3/11/2011	6591	18.06	32329
1FPPOOL	F3L12	1F3	1993/2/22	3/11/2011	6591	18.06	29589
1FPPOOL	F3L18	1F3	1993/2/22	3/11/2011	6591	18.06	29369
1FPPOOL	F3K123	1F3	1991/9/18	3/11/2011	7114	19.49	28713
1FPPOOL	F3K88	1F3	1993/2/22	3/11/2011	6591	18.06	26811
1FPPOOL	F3K118	1F3	1993/2/22	3/11/2011	6591	18.06	36030
1FPPOOL	F3K136	1F3	1993/2/22	3/11/2011	6591	18.06	29617
1FPPOOL	F3K124	1F3	1991/9/18	3/11/2011	7114	19.49	28704
1FPPOOL	F3K141	1F3	1993/2/22	3/11/2011	6591	18.06	26589
1FPPOOL	F3L47	1F3	1994/9/3	3/11/2011	6033	16.53	26403
1FPPOOL	F3K89	1F3	1993/2/22	3/11/2011	6591	18.06	31335
1FPPOOL	F3L7	1F3	1993/2/22	3/11/2011	6591	18.06	32290
1FPPOOL	F3L73	1F3	1993/2/22	3/11/2011	6591	18.06	24369
1FPPOOL	F3L94	1F3	1993/2/22	3/11/2011	6591	18.06	29175
1FPPOOL	F3L101	1F3	1993/2/22	3/11/2011	6591	18.06	29668
1FPPOOL	F3L39	1F3	1995/12/8	3/11/2011	5572	15.27	29526
1FPPOOL	F3L108	1F3	1993/2/22	3/11/2011	6591	18.06	29867
1FPPOOL	F3L42	1F3	1994/9/3	3/11/2011	6033	16.53	26531
1FPPOOL	F3L92	1F3	1993/2/22	3/11/2011	6591	18.06	27916
1FPPOOL	F3L113	1F3	1993/2/22	3/11/2011	6591	18.06	26332
1FPPOOL	F3L112	1F3	1993/2/22	3/11/2011	6591	18.06	32339
1FPPOOL	F3L93	1F3	1993/2/22	3/11/2011	6591	18.06	29190

1FPPOOL	F3L35	1F3	1995/12/8	3/11/2011	5572	15.27	33897
1FPPOOL	F3L56	1F3	1993/2/22	3/11/2011	6591	18.06	25624
1FPPOOL	F3L44	1F3	1994/9/3	3/11/2011	6033	16.53	26363
1FPPOOL	F3L63	1F3	1993/2/22	3/11/2011	6591	18.06	26670
1FPPOOL	F3L69	1F3	1993/2/22	3/11/2011	6591	18.06	24097
1FPPOOL	F3L57	1F3	1993/2/22	3/11/2011	6591	18.06	23966
1FPPOOL	F3L79	1F3	1994/9/3	3/11/2011	6033	16.53	31373
1FPPOOL	F3L72	1F3	1993/2/22	3/11/2011	6591	18.06	24242
1FPPOOL	F3L107	1F3	1993/2/22	3/11/2011	6591	18.06	29872
1FPPOOL	F3L70	1F3	1993/2/22	3/11/2011	6591	18.06	24287
1FPPOOL	F3L91	1F3	1993/2/22	3/11/2011	6591	18.06	27898
1FPPOOL	F3L75	1F3	1993/2/22	3/11/2011	6591	18.06	24470
1FPPOOL	F3L103	1F3	1993/2/22	3/11/2011	6591	18.06	29664
1FPPOOL	F3L40	1F3	1995/12/8	3/11/2011	5572	15.27	29336
1FPPOOL	F3L87	1F3	1993/2/22	3/11/2011	6591	18.06	29030
1FPPOOL	F3L117	1F3	1993/2/22	3/11/2011	6591	18.06	33039
1FPPOOL	F3L45	1F3	1994/9/3	3/11/2011	6033	16.53	26216
1FPPOOL	F3L66	1F3	1993/2/22	3/11/2011	6591	18.06	26258
1FPPOOL	F3L120	1F3	1993/2/22	3/11/2011	6591	18.06	32954
1FPPOOL	F3L121	1F3	1993/2/22	3/11/2011	6591	18.06	32943
1FPPOOL	F3L51	1F3	1993/2/22	3/11/2011	6591	18.06	26757
1FPPOOL	F3L59	1F3	1993/2/22	3/11/2011	6591	18.06	23947
1FPPOOL	F3L80	1F3	1994/9/3	3/11/2011	6033	16.53	31413
1FPPOOL	F3L122	1F3	1993/2/22	3/11/2011	6591	18.06	32969
1FPPOOL	F3L114	1F3	1993/2/22	3/11/2011	6591	18.06	26312
1FPPOOL	F3L116	1F3	1993/2/22	3/11/2011	6591	18.06	26337
1FPPOOL	F3L52	1F3	1993/2/22	3/11/2011	6591	18.06	26920
1FPPOOL	F3L74	1F3	1993/2/22	3/11/2011	6591	18.06	24267
1FPPOOL	F3L81	1F3	1994/9/3	3/11/2011	6033	16.53	31396
1FPPOOL	F3L102	1F3	1993/2/22	3/11/2011	6591	18.06	29663
1FPPOOL	F3L104	1F3	1993/2/22	3/11/2011	6591	18.06	29657
1FPPOOL	F3L86	1F3	1993/2/22	3/11/2011	6591	18.06	29019
1FPPOOL	F3L118	1F3	1993/2/22	3/11/2011	6591	18.06	32964
1FPPOOL	F3L88	1F3	1993/2/22	3/11/2011	6591	18.06	29025
1FPPOOL	F3L119	1F3	1993/2/22	3/11/2011	6591	18.06	32961
1FPPOOL	F3L125	1F3	1993/2/22	3/11/2011	6591	18.06	26373
1FPPOOL	F3L41	1F3	1994/9/3	3/11/2011	6033	16.53	26741
1FPPOOL	F3L98	1F3	1993/2/22	3/11/2011	6591	18.06	26564
1FPPOOL	F3L37	1F3	1995/12/8	3/11/2011	5572	15.27	29461
1FPPOOL	F3L96	1F3	1993/2/22	3/11/2011	6591	18.06	29165
1FPPOOL	F3L95	1F3	1993/2/22	3/11/2011	6591	18.06	29159
1FPPOOL	F3L34	1F3	1995/12/8	3/11/2011	5572	15.27	34011
1FPPOOL	F3L58	1F3	1993/2/22	3/11/2011	6591	18.06	23976
1FPPOOL	F3L36	1F3	1995/12/8	3/11/2011	5572	15.27	33943
1FPPOOL	F3L54	1F3	1993/2/22	3/11/2011	6591	18.06	25627
1FPPOOL	F3L60	1F3	1993/2/22	3/11/2011	6591	18.06	23899
1FPPOOL	F3L43	1F3	1994/9/3	3/11/2011	6033	16.53	26734
1FPPOOL	F3L64	1F3	1993/2/22	3/11/2011	6591	18.06	26670
1FPPOOL	F3L53	1F3	1993/2/22	3/11/2011	6591	18.06	25762
1FPPOOL	F3L76	1F3	1993/2/22	3/11/2011	6591	18.06	24253
1FPPOOL	F3L123	1F3	1993/2/22	3/11/2011	6591	18.06	32952
1FPPOOL	F3L124	1F3	1993/2/22	3/11/2011	6591	18.06	33002
1FPPOOL	F3L68	1F3	1993/2/22	3/11/2011	6591	18.06	26241

1FPPOOL	F3L82	1F3	1994/9/3	3/11/2011	6033	16.53	31359
1FPPOOL	F3L100	1F3	1993/2/22	3/11/2011	6591	18.06	26526
1FPPOOL	F3L38	1F3	1995/12/8	3/11/2011	5572	15.27	29373
1FPPOOL	F3L126	1F3	1993/2/22	3/11/2011	6591	18.06	26456
1FPPOOL	F3L106	1F3	1993/2/22	3/11/2011	6591	18.06	29884
1FPPOOL	F3L90	1F3	1993/2/22	3/11/2011	6591	18.06	27918
1FPPOOL	F3L46	1F3	1994/9/3	3/11/2011	6033	16.53	26570
1FPPOOL	F3L33	1F3	1995/12/8	3/11/2011	5572	15.27	33898
1FPPOOL	F3L55	1F3	1993/2/22	3/11/2011	6591	18.06	25749
1FPPOOL	F3L61	1F3	1993/2/22	3/11/2011	6591	18.06	26538
1FPPOOL	F3L89	1F3	1993/2/22	3/11/2011	6591	18.06	27906
1FPPOOL	F3L71	1F3	1993/2/22	3/11/2011	6591	18.06	24093
1FPPOOL	F3L77	1F3	1994/9/3	3/11/2011	6033	16.53	31380
1FPPOOL	F3L62	1F3	1993/2/22	3/11/2011	6591	18.06	26649
1FPPOOL	F3L83	1F3	1994/9/3	3/11/2011	6033	16.53	31386
1FPPOOL	F3L148	1F3	1993/2/22	3/11/2011	6591	18.06	33359
1FPPOOL	F3L48	1F3	1994/9/3	3/11/2011	6033	16.53	26540
1FPPOOL	F3L78	1F3	1994/9/3	3/11/2011	6033	16.53	31405
1FPPOOL	F3L84	1F3	1994/9/3	3/11/2011	6033	16.53	31373
1FPPOOL	F3L105	1F3	1993/2/22	3/11/2011	6591	18.06	29862
1FPPOOL	F3L115	1F3	1993/2/22	3/11/2011	6591	18.06	26377
1FPPOOL	F3L49	1F3	1993/2/22	3/11/2011	6591	18.06	26741
1FPPOOL	F3M36	1F3	1995/12/8	3/11/2011	5572	15.27	28445
1FPPOOL	F3M43	1F3	1994/9/3	3/11/2011	6033	16.53	28308
1FPPOOL	F3L135	1F3	1993/2/22	3/11/2011	6591	18.06	29518
1FPPOOL	F3M49	1F3	1997/5/26	3/11/2011	5037	13.80	32939
1FPPOOL	F3M34	1F3	1995/12/8	3/11/2011	5572	15.27	28445
1FPPOOL	F3L131	1F3	1993/2/22	3/11/2011	6591	18.06	26433
1FPPOOL	F3L144	1F3	1993/2/22	3/11/2011	6591	18.06	30317
1FPPOOL	F3M13	1F3	1994/9/3	3/11/2011	6033	16.53	29899
1FPPOOL	F3M14	1F3	1994/9/3	3/11/2011	6033	16.53	29918
1FPPOOL	F3M53	1F3	1994/9/3	3/11/2011	6033	16.53	30143
1FPPOOL	F3M21	1F3	1995/12/8	3/11/2011	5572	15.27	29202
1FPPOOL	F3M42	1F3	1994/9/3	3/11/2011	6033	16.53	28352
1FPPOOL	F3M30	1F3	1997/5/26	3/11/2011	5037	13.80	31005
1FPPOOL	F3M125	1F3	1994/9/3	3/11/2011	6033	16.53	33320
1FPPOOL	F3M19	1F3	1995/12/8	3/11/2011	5572	15.27	28363
1FPPOOL	F3M23	1F3	1995/12/8	3/11/2011	5572	15.27	29186
1FPPOOL	F3M44	1F3	1994/9/3	3/11/2011	6033	16.53	28358
1FPPOOL	F3M31	1F3	1997/5/26	3/11/2011	5037	13.80	31053
1FPPOOL	F3M50	1F3	1997/5/26	3/11/2011	5037	13.80	32872
1FPPOOL	F3M56	1F3	1994/9/3	3/11/2011	6033	16.53	30158
1FPPOOL	F3M10	1F3	1994/9/3	3/11/2011	6033	16.53	29934
1FPPOOL	F3L145	1F3	1993/2/22	3/11/2011	6591	18.06	33320
1FPPOOL	F3M16	1F3	1994/9/3	3/11/2011	6033	16.53	29916
1FPPOOL	F3L130	1F3	1993/2/22	3/11/2011	6591	18.06	26433
1FPPOOL	F3M9	1F3	1994/9/3	3/11/2011	6033	16.53	29988
1FPPOOL	F3M61	1F3	1994/9/3	3/11/2011	6033	16.53	26421
1FPPOOL	F3M15	1F3	1994/9/3	3/11/2011	6033	16.53	29886
1FPPOOL	F3M55	1F3	1994/9/3	3/11/2011	6033	16.53	30136
1FPPOOL	F3M22	1F3	1995/12/8	3/11/2011	5572	15.27	29223
1FPPOOL	F3M27	1F3	1997/5/26	3/11/2011	5037	13.80	32645
1FPPOOL	F3M62	1F3	1994/9/3	3/11/2011	6033	16.53	26427

1FPPOOL	F3M63	1F3	1994/9/3	3/11/2011	6033	16.53	26414
1FPPOOL	F3M46	1F3	1995/12/8	3/11/2011	5572	15.27	30600
1FPPOOL	F3L146	1F3	1993/2/22	3/11/2011	6591	18.06	33380
1FPPOOL	F3M37	1F3	1994/9/3	3/11/2011	6033	16.53	28359
1FPPOOL	F3L129	1F3	1993/2/22	3/11/2011	6591	18.06	26447
1FPPOOL	F3L136	1F3	1993/2/22	3/11/2011	6591	18.06	29331
1FPPOOL	F3M32	1F3	1997/5/26	3/11/2011	5037	13.80	31017
1FPPOOL	F3M51	1F3	1997/5/26	3/11/2011	5037	13.80	32904
1FPPOOL	F3L132	1F3	1993/2/22	3/11/2011	6591	18.06	26384
1FPPOOL	F3M11	1F3	1994/9/3	3/11/2011	6033	16.53	29979
1FPPOOL	F3L142	1F3	1993/2/22	3/11/2011	6591	18.06	30290
1FPPOOL	F3M54	1F3	1994/9/3	3/11/2011	6033	16.53	30169
1FPPOOL	F3L133	1F3	1993/2/22	3/11/2011	6591	18.06	29533
1FPPOOL	F3M64	1F3	1994/9/3	3/11/2011	6033	16.53	26431
1FPPOOL	F3M28	1F3	1997/5/26	3/11/2011	5037	13.80	32685
1FPPOOL	F3M45	1F3	1995/12/8	3/11/2011	5572	15.27	30538
1FPPOOL	F3M17	1F3	1995/12/8	3/11/2011	5572	15.27	28381
1FPPOOL	F3M24	1F3	1995/12/8	3/11/2011	5572	15.27	29204
1FPPOOL	F3M39	1F3	1994/9/3	3/11/2011	6033	16.53	28349
1FPPOOL	F3M48	1F3	1995/12/8	3/11/2011	5572	15.27	30619
1FPPOOL	F3L143	1F3	1993/2/22	3/11/2011	6591	18.06	30259
1FPPOOL	F3M33	1F3	1995/12/8	3/11/2011	5572	15.27	28460
1FPPOOL	F3M52	1F3	1997/5/26	3/11/2011	5037	13.80	32909
1FPPOOL	F3M35	1F3	1995/12/8	3/11/2011	5572	15.27	28447
1FPPOOL	F3L134	1F3	1993/2/22	3/11/2011	6591	18.06	29514
1FPPOOL	F3M65	1F3	1994/9/3	3/11/2011	6033	16.53	26673
1FPPOOL	F3L127	1F3	1993/2/22	3/11/2011	6591	18.06	26411
1FPPOOL	F3L141	1F3	1993/2/22	3/11/2011	6591	18.06	30232
1FPPOOL	F3M18	1F3	1995/12/8	3/11/2011	5572	15.27	28462
1FPPOOL	F3M20	1F3	1995/12/8	3/11/2011	5572	15.27	28458
1FPPOOL	F3M12	1F3	1994/9/3	3/11/2011	6033	16.53	29929
1FPPOOL	F3L147	1F3	1993/2/22	3/11/2011	6591	18.06	33343
1FPPOOL	F3L128	1F3	1993/2/22	3/11/2011	6591	18.06	26447
1FPPOOL	F3L151	1F3	1993/2/22	3/11/2011	6591	18.06	33318
1FPPOOL	F3M25	1F3	1997/5/26	3/11/2011	5037	13.80	32653
1FPPOOL	F3M29	1F3	1997/5/26	3/11/2011	5037	13.80	31068
1FPPOOL	F3M47	1F3	1995/12/8	3/11/2011	5572	15.27	30544
1FPPOOL	F3L149	1F3	1993/2/22	3/11/2011	6591	18.06	33345
1FPPOOL	F3L150	1F3	1993/2/22	3/11/2011	6591	18.06	33293
1FPPOOL	F3L152	1F3	1993/2/22	3/11/2011	6591	18.06	33289
1FPPOOL	F3M132	1F3	1994/9/3	3/11/2011	6033	16.53	30183
1FPPOOL	F3M131	1F3	1994/9/3	3/11/2011	6033	16.53	30182
1FPPOOL	F3M139	1F3	1994/9/3	3/11/2011	6033	16.53	31280
1FPPOOL	F3M145	1F3	1994/9/3	3/11/2011	6033	16.53	30075
1FPPOOL	F3M130	1F3	1994/9/3	3/11/2011	6033	16.53	30200
1FPPOOL	F3M69	1F3	1994/9/3	3/11/2011	6033	16.53	31559
1FPPOOL	F3M75	1F3	1995/12/8	3/11/2011	5572	15.27	33996
1FPPOOL	F3M97	1F3	1995/12/8	3/11/2011	5572	15.27	34562
1FPPOOL	F3M81	1F3	1995/12/8	3/11/2011	5572	15.27	29503
1FPPOOL	F3M87	1F3	1993/2/22	3/11/2011	6591	18.06	22796
1FPPOOL	F3M109	1F3	1994/9/3	3/11/2011	6033	16.53	26312
1FPPOOL	F3M70	1F3	1994/9/3	3/11/2011	6033	16.53	31562
1FPPOOL	F3M91	1F3	1993/2/22	3/11/2011	6591	18.06	22873

1FPPOOL	F3M98	1F3	1995/12/8	3/11/2011	5572	15.27	34525
1FPPOOL	F3M117	1F3	1994/9/3	3/11/2011	6033	16.53	26508
1FPPOOL	F3M103	1F3	1994/9/3	3/11/2011	6033	16.53	29224
1FPPOOL	F3M123	1F3	1994/9/3	3/11/2011	6033	16.53	29191
1FPPOOL	F3M150	1F3	1994/9/3	3/11/2011	6033	16.53	30083
1FPPOOL	F3M86	1F3	1993/2/22	3/11/2011	6591	18.06	22789
1FPPOOL	F3M92	1F3	1993/2/22	3/11/2011	6591	18.06	22896
1FPPOOL	F3M118	1F3	1994/9/3	3/11/2011	6033	16.53	26481
1FPPOOL	F3M138	1F3	1994/9/3	3/11/2011	6033	16.53	31263
1FPPOOL	F3M124	1F3	1994/9/3	3/11/2011	6033	16.53	29164
1FPPOOL	F3M144	1F3	1994/9/3	3/11/2011	6033	16.53	30285
1FPPOOL	F3N55	1F3	1995/12/8	3/11/2011	5572	15.27	29622
1FPPOOL	F3M129	1F3	1994/9/3	3/11/2011	6033	16.53	30211
1FPPOOL	F3M114	1F3	1995/12/8	3/11/2011	5572	15.27	33967
1FPPOOL	F3M140	1F3	1994/9/3	3/11/2011	6033	16.53	31202
1FPPOOL	F3M146	1F3	1994/9/3	3/11/2011	6033	16.53	30009
1FPPOOL	F3M153	1F3	1994/9/3	3/11/2011	6033	16.53	31876
1FPPOOL	F3M68	1F3	1994/9/3	3/11/2011	6033	16.53	26710
1FPPOOL	F3M82	1F3	1995/12/8	3/11/2011	5572	15.27	28816
1FPPOOL	F3M147	1F3	1994/9/3	3/11/2011	6033	16.53	30054
1FPPOOL	F3M156	1F3	1994/9/3	3/11/2011	6033	16.53	31818
1FPPOOL	F3M93	1F3	1994/9/3	3/11/2011	6033	16.53	31449
1FPPOOL	F3M99	1F3	1995/12/8	3/11/2011	5572	15.27	34538
1FPPOOL	F3M157	1F3	1994/9/3	3/11/2011	6033	16.53	31532
1FPPOOL	F3M158	1F3	1994/9/3	3/11/2011	6033	16.53	31634
1FPPOOL	F3M151	1F3	1994/9/3	3/11/2011	6033	16.53	30039
1FPPOOL	F3M152	1F3	1994/9/3	3/11/2011	6033	16.53	30141
1FPPOOL	F3M113	1F3	1995/12/8	3/11/2011	5572	15.27	33987
1FPPOOL	F3M119	1F3	1994/9/3	3/11/2011	6033	16.53	26484
1FPPOOL	F3M105	1F3	1994/9/3	3/11/2011	6033	16.53	33760
1FPPOOL	F3M154	1F3	1994/9/3	3/11/2011	6033	16.53	31819
1FPPOOL	F3M155	1F3	1994/9/3	3/11/2011	6033	16.53	31849
1FPPOOL	F3M159	1F3	1994/9/3	3/11/2011	6033	16.53	31578
1FPPOOL	F3M142	1F3	1994/9/3	3/11/2011	6033	16.53	30214
1FPPOOL	F3M77	1F3	1994/9/3	3/11/2011	6033	16.53	31812
1FPPOOL	F3M148	1F3	1994/9/3	3/11/2011	6033	16.53	29913
1FPPOOL	F3M136	1F3	1994/9/3	3/11/2011	6033	16.53	31389
1FPPOOL	F3M72	1F3	1994/9/3	3/11/2011	6033	16.53	31545
1FPPOOL	F3M134	1F3	1994/9/3	3/11/2011	6033	16.53	31375
1FPPOOL	F3M133	1F3	1994/9/3	3/11/2011	6033	16.53	31342
1FPPOOL	F3M76	1F3	1995/12/8	3/11/2011	5572	15.27	33988
1FPPOOL	F3M74	1F3	1995/12/8	3/11/2011	5572	15.27	33996
1FPPOOL	F3M79	1F3	1994/9/3	3/11/2011	6033	16.53	31817
1FPPOOL	F3M127	1F3	1994/9/3	3/11/2011	6033	16.53	33254
1FPPOOL	F3M71	1F3	1994/9/3	3/11/2011	6033	16.53	31572
1FPPOOL	F3M95	1F3	1994/9/3	3/11/2011	6033	16.53	31455
1FPPOOL	F3M160	1F3	1994/9/3	3/11/2011	6033	16.53	31498
1FPPOOL	F3M100	1F3	1995/12/8	3/11/2011	5572	15.27	34523
1FPPOOL	F3M120	1F3	1994/9/3	3/11/2011	6033	16.53	26475
1FPPOOL	F3M104	1F3	1994/9/3	3/11/2011	6033	16.53	29156
1FPPOOL	F3M106	1F3	1994/9/3	3/11/2011	6033	16.53	33779
1FPPOOL	F3M94	1F3	1994/9/3	3/11/2011	6033	16.53	31459
1FPPOOL	F3M161	1F3	1994/9/3	3/11/2011	6033	16.53	31288

1FPPOOL	F3M121	1F3	1994/9/3	3/11/2011	6033	16.53	29179
1FPPOOL	F3M141	1F3	1994/9/3	3/11/2011	6033	16.53	30228
1FPPOOL	F3M126	1F3	1994/9/3	3/11/2011	6033	16.53	33303
1FPPOOL	F3M115	1F3	1995/12/8	3/11/2011	5572	15.27	33994
1FPPOOL	F3M135	1F3	1994/9/3	3/11/2011	6033	16.53	31338
1FPPOOL	F3M89	1F3	1993/2/22	3/11/2011	6591	18.06	22909
1FPPOOL	F3M80	1F3	1994/9/3	3/11/2011	6033	16.53	31828
1FPPOOL	F3M149	1F3	1994/9/3	3/11/2011	6033	16.53	30011
1FPPOOL	F3M83	1F3	1995/12/8	3/11/2011	5572	15.27	29503
1FPPOOL	F3M111	1F3	1994/9/3	3/11/2011	6033	16.53	26337
1FPPOOL	F3M137	1F3	1994/9/3	3/11/2011	6033	16.53	31311
1FPPOOL	F3M162	1F3	1994/9/3	3/11/2011	6033	16.53	31333
1FPPOOL	F3M66	1F3	1994/9/3	3/11/2011	6033	16.53	26707
1FPPOOL	F3M78	1F3	1994/9/3	3/11/2011	6033	16.53	31822
1FPPOOL	F3M101	1F3	1994/9/3	3/11/2011	6033	16.53	29237
1FPPOOL	F3M108	1F3	1993/2/22	3/11/2011	6591	18.06	22764
1FPPOOL	F3M128	1F3	1994/9/3	3/11/2011	6033	16.53	33275
1FPPOOL	F3M73	1F3	1995/12/8	3/11/2011	5572	15.27	34002
1FPPOOL	F3M96	1F3	1994/9/3	3/11/2011	6033	16.53	31472
1FPPOOL	F3M102	1F3	1994/9/3	3/11/2011	6033	16.53	29248
1FPPOOL	F3M84	1F3	1995/12/8	3/11/2011	5572	15.27	28837
1FPPOOL	F3M122	1F3	1994/9/3	3/11/2011	6033	16.53	29168
1FPPOOL	F3N48	1F3	1995/12/8	3/11/2011	5572	15.27	29499
1FPPOOL	F3M67	1F3	1994/9/3	3/11/2011	6033	16.53	26667
1FPPOOL	F3M88	1F3	1993/2/22	3/11/2011	6591	18.06	22804
1FPPOOL	F3M116	1F3	1995/12/8	3/11/2011	5572	15.27	33984
1FPPOOL	F3M143	1F3	1994/9/3	3/11/2011	6033	16.53	30255
1FPPOOL	F3M85	1F3	1993/2/22	3/11/2011	6591	18.06	22799
1FPPOOL	F3M107	1F3	1994/9/3	3/11/2011	6033	16.53	33763
1FPPOOL	F3M90	1F3	1993/2/22	3/11/2011	6591	18.06	22864
1FPPOOL	F3N42	1F3	1997/5/26	3/11/2011	5037	13.80	38034
1FPPOOL	F3N30	1F3	1995/12/8	3/11/2011	5572	15.27	28523
1FPPOOL	F3N20	1F3	1997/5/26	3/11/2011	5037	13.80	31743
1FPPOOL	F3N41	1F3	1997/5/26	3/11/2011	5037	13.80	38136
1FPPOOL	F3M167	1F3	1994/9/3	3/11/2011	6033	16.53	30084
1FPPOOL	F3N52	1F3	1995/12/8	3/11/2011	5572	15.27	29525
1FPPOOL	F3N7	1F3	1995/12/8	3/11/2011	5572	15.27	31236
1FPPOOL	F3N27	1F3	1997/5/26	3/11/2011	5037	13.80	35646
1FPPOOL	F3N33	1F3	1995/12/8	3/11/2011	5572	15.27	28533
1FPPOOL	F3N37	1F3	1997/5/26	3/11/2011	5037	13.80	38019
1FPPOOL	F3N51	1F3	1995/12/8	3/11/2011	5572	15.27	29485
1FPPOOL	F3N34	1F3	1995/12/8	3/11/2011	5572	15.27	28555
1FPPOOL	F3M171	1F3	1994/9/3	3/11/2011	6033	16.53	31543
1FPPOOL	F3N6	1F3	1995/12/8	3/11/2011	5572	15.27	31171
1FPPOOL	F3N45	1F3	1995/12/8	3/11/2011	5572	15.27	29514
1FPPOOL	F3N9	1F3	1995/12/8	3/11/2011	5572	15.27	31302
1FPPOOL	F3M163	1F3	1994/9/3	3/11/2011	6033	16.53	31335
1FPPOOL	F3N11	1F3	1995/12/8	3/11/2011	5572	15.27	31271
1FPPOOL	F3N31	1F3	1995/12/8	3/11/2011	5572	15.27	28556
1FPPOOL	F3N44	1F3	1997/5/26	3/11/2011	5037	13.80	38013
1FPPOOL	F3M176	1F3	1994/9/3	3/11/2011	6033	16.53	33285
1FPPOOL	F3N10	1F3	1995/12/8	3/11/2011	5572	15.27	31175
1FPPOOL	F3N29	1F3	1995/12/8	3/11/2011	5572	15.27	28574

1FPPOOL	F3N53	1F3	1995/12/8	3/11/2011	5572	15.27	29635
1FPPOOL	F3N43	1F3	1997/5/26	3/11/2011	5037	13.80	38134
1FPPOOL	F3M175	1F3	1994/9/3	3/11/2011	6033	16.53	33262
1FPPOOL	F3N12	1F3	1995/12/8	3/11/2011	5572	15.27	31182
1FPPOOL	F3N50	1F3	1995/12/8	3/11/2011	5572	15.27	29534
1FPPOOL	F3M165	1F3	1994/9/3	3/11/2011	6033	16.53	30119
1FPPOOL	F3N1	1F3	1995/12/8	3/11/2011	5572	15.27	31303
1FPPOOL	F3N40	1F3	1997/5/26	3/11/2011	5037	13.80	38152
1FPPOOL	F3N3	1F3	1995/12/8	3/11/2011	5572	15.27	31302
1FPPOOL	F3N24	1F3	1997/5/26	3/11/2011	5037	13.80	35558
1FPPOOL	F3N23	1F3	1997/5/26	3/11/2011	5037	13.80	35597
1FPPOOL	F3M173	1F3	1994/9/3	3/11/2011	6033	16.53	33259
1FPPOOL	F3N4	1F3	1995/12/8	3/11/2011	5572	15.27	31302
1FPPOOL	F3M168	1F3	1994/9/3	3/11/2011	6033	16.53	30085
1FPPOOL	F3N22	1F3	1997/5/26	3/11/2011	5037	13.80	35496
1FPPOOL	F3N49	1F3	1995/12/8	3/11/2011	5572	15.27	29509
1FPPOOL	F3N36	1F3	1995/12/8	3/11/2011	5572	15.27	28557
1FPPOOL	F3N5	1F3	1995/12/8	3/11/2011	5572	15.27	31242
1FPPOOL	F3M174	1F3	1994/9/3	3/11/2011	6033	16.53	33281
1FPPOOL	F3N35	1F3	1995/12/8	3/11/2011	5572	15.27	28546
1FPPOOL	F3M164	1F3	1994/9/3	3/11/2011	6033	16.53	31277
1FPPOOL	F3N39	1F3	1997/5/26	3/11/2011	5037	13.80	38010
1FPPOOL	F3M170	1F3	1994/9/3	3/11/2011	6033	16.53	31515
1FPPOOL	F3N32	1F3	1995/12/8	3/11/2011	5572	15.27	28532
1FPPOOL	F3N38	1F3	1997/5/26	3/11/2011	5037	13.80	38140
1FPPOOL	F3M169	1F3	1994/9/3	3/11/2011	6033	16.53	31535
1FPPOOL	F3M172	1F3	1994/9/3	3/11/2011	6033	16.53	31445
1FPPOOL	F3N8	1F3	1995/12/8	3/11/2011	5572	15.27	31168
1FPPOOL	F3N28	1F3	1997/5/26	3/11/2011	5037	13.80	35697
1FPPOOL	F3N47	1F3	1995/12/8	3/11/2011	5572	15.27	29509
1FPPOOL	F3N25	1F3	1997/5/26	3/11/2011	5037	13.80	35601
1FPPOOL	F3N46	1F3	1995/12/8	3/11/2011	5572	15.27	29492
1FPPOOL	F3N26	1F3	1997/5/26	3/11/2011	5037	13.80	35626
1FPPOOL	F3M166	1F3	1994/9/3	3/11/2011	6033	16.53	30044
1FPPOOL	F3N54	1F3	1995/12/8	3/11/2011	5572	15.27	29681
1FPPOOL	F3N2	1F3	1995/12/8	3/11/2011	5572	15.27	31272
1FPPOOL	F3N21	1F3	1997/5/26	3/11/2011	5037	13.80	35564
1FPPOOL	F3N124	1F3	1997/5/26	3/11/2011	5037	13.80	36755
1FPPOOL	F3N135	1F3	1995/12/8	3/11/2011	5572	15.27	28722
1FPPOOL	F3N122	1F3	1997/5/26	3/11/2011	5037	13.80	36750
1FPPOOL	F3N60	1F3	1995/12/8	3/11/2011	5572	15.27	29610
1FPPOOL	F3N67	1F3	1995/12/8	3/11/2011	5572	15.27	29130
1FPPOOL	F3N96	1F3	1997/5/26	3/11/2011	5037	13.80	30461
1FPPOOL	F3N112	1F3	1995/12/8	3/11/2011	5572	15.27	28803
1FPPOOL	F3N117	1F3	1997/5/26	3/11/2011	5037	13.80	36895
1FPPOOL	F3N139	1F3	1997/5/26	3/11/2011	5037	13.80	37342
1FPPOOL	F3N79	1F3	1997/5/26	3/11/2011	5037	13.80	29469
1FPPOOL	F3N105	1F3	1995/12/8	3/11/2011	5572	15.27	31325
1FPPOOL	F3N129	1F3	1997/5/26	3/11/2011	5037	13.80	31774
1FPPOOL	F3N134	1F3	1995/12/8	3/11/2011	5572	15.27	28951
1FPPOOL	F3N103	1F3	1997/5/26	3/11/2011	5037	13.80	30470
1FPPOOL	F3N108	1F3	1995/12/8	3/11/2011	5572	15.27	31410
1FPPOOL	F3N125	1F3	1997/5/26	3/11/2011	5037	13.80	36972

1FPPOOL	F3N68	1F3	1995/12/8	3/11/2011	5572	15.27	28799
1FPPOOL	F3N136	1F3	1995/12/8	3/11/2011	5572	15.27	28951
1FPPOOL	F3N142	1F3	1995/12/8	3/11/2011	5572	15.27	28810
1FPPOOL	F3N92	1F3	1997/5/26	3/11/2011	5037	13.80	31535
1FPPOOL	F3N99	1F3	1997/5/26	3/11/2011	5037	13.80	30475
1FPPOOL	F3N146	1F3	1995/12/8	3/11/2011	5572	15.27	28750
1FPPOOL	F3N145	1F3	1995/12/8	3/11/2011	5572	15.27	28785
1FPPOOL	F3N59	1F3	1995/12/8	3/11/2011	5572	15.27	29650
1FPPOOL	F3N84	1F3	1997/5/26	3/11/2011	5037	13.80	29423
1FPPOOL	F3N113	1F3	1997/5/26	3/11/2011	5037	13.80	32015
1FPPOOL	F3N147	1F3	1995/12/8	3/11/2011	5572	15.27	28785
1FPPOOL	F3N98	1F3	1997/5/26	3/11/2011	5037	13.80	30558
1FPPOOL	F3N140	1F3	1997/5/26	3/11/2011	5037	13.80	37323
1FPPOOL	F3N141	1F3	1995/12/8	3/11/2011	5572	15.27	28785
1FPPOOL	F3N143	1F3	1995/12/8	3/11/2011	5572	15.27	28773
1FPPOOL	F3N107	1F3	1995/12/8	3/11/2011	5572	15.27	31349
1FPPOOL	F3N118	1F3	1997/5/26	3/11/2011	5037	13.80	36884
1FPPOOL	F3N144	1F3	1995/12/8	3/11/2011	5572	15.27	28808
1FPPOOL	F3N148	1F3	1995/12/8	3/11/2011	5572	15.27	28763
1FPPOOL	F3N149	1F3	1995/12/8	3/11/2011	5572	15.27	31252
1FPPOOL	F3N65	1F3	1995/12/8	3/11/2011	5572	15.27	29135
1FPPOOL	F3N127	1F3	1997/5/26	3/11/2011	5037	13.80	36981
1FPPOOL	F3N63	1F3	1995/12/8	3/11/2011	5572	15.27	28780
1FPPOOL	F3N58	1F3	1995/12/8	3/11/2011	5572	15.27	29610
1FPPOOL	F3N93	1F3	1997/5/26	3/11/2011	5037	13.80	30432
1FPPOOL	F3N137	1F3	1997/5/26	3/11/2011	5037	13.80	37368
1FPPOOL	F3N61	1F3	1995/12/8	3/11/2011	5572	15.27	28782
1FPPOOL	F3N114	1F3	1997/5/26	3/11/2011	5037	13.80	32049
1FPPOOL	F3N97	1F3	1997/5/26	3/11/2011	5037	13.80	30390
1FPPOOL	F3N62	1F3	1995/12/8	3/11/2011	5572	15.27	29105
1FPPOOL	F3N150	1F3	1995/12/8	3/11/2011	5572	15.27	31206
1FPPOOL	F3N109	1F3	1995/12/8	3/11/2011	5572	15.27	28695
1FPPOOL	F3N128	1F3	1997/5/26	3/11/2011	5037	13.80	37000
1FPPOOL	F3N115	1F3	1997/5/26	3/11/2011	5037	13.80	32009
1FPPOOL	F3N131	1F3	1997/5/26	3/11/2011	5037	13.80	31757
1FPPOOL	F3N133	1F3	1995/12/8	3/11/2011	5572	15.27	28734
1FPPOOL	F3N100	1F3	1997/5/26	3/11/2011	5037	13.80	30549
1FPPOOL	F3N119	1F3	1997/5/26	3/11/2011	5037	13.80	36887
1FPPOOL	F3N101	1F3	1997/5/26	3/11/2011	5037	13.80	30476
1FPPOOL	F3N126	1F3	1997/5/26	3/11/2011	5037	13.80	36980
1FPPOOL	F3N66	1F3	1995/12/8	3/11/2011	5572	15.27	28822
1FPPOOL	F3N151	1F3	1995/12/8	3/11/2011	5572	15.27	31256
1FPPOOL	F3N121	1F3	1997/5/26	3/11/2011	5037	13.80	36780
1FPPOOL	F3N138	1F3	1997/5/26	3/11/2011	5037	13.80	37378
1FPPOOL	F3N123	1F3	1997/5/26	3/11/2011	5037	13.80	36761
1FPPOOL	F3N56	1F3	1995/12/8	3/11/2011	5572	15.27	29670
1FPPOOL	F3N94	1F3	1997/5/26	3/11/2011	5037	13.80	30430
1FPPOOL	F3N120	1F3	1997/5/26	3/11/2011	5037	13.80	36883
1FPPOOL	F3N64	1F3	1995/12/8	3/11/2011	5572	15.27	29092
1FPPOOL	F3N110	1F3	1995/12/8	3/11/2011	5572	15.27	28820
1FPPOOL	F3N95	1F3	1997/5/26	3/11/2011	5037	13.80	30489
1FPPOOL	F3N116	1F3	1997/5/26	3/11/2011	5037	13.80	32049
1FPPOOL	F3N77	1F3	1997/5/26	3/11/2011	5037	13.80	29464

1FPPOOL	F3N170	1F3	1995/12/8	3/11/2011	5572	15.27	32326
1FPPOOL	F3N57	1F3	1995/12/8	3/11/2011	5572	15.27	29638
1FPPOOL	F3N111	1F3	1995/12/8	3/11/2011	5572	15.27	28779
1FPPOOL	F3N82	1F3	1997/5/26	3/11/2011	5037	13.80	29446
1FPPOOL	F3N104	1F3	1997/5/26	3/11/2011	5037	13.80	30377
1FPPOOL	F3N106	1F3	1995/12/8	3/11/2011	5572	15.27	31401
1FPPOOL	F3N199	1F3	1995/12/8	3/11/2011	5572	15.27	31536
1FPPOOL	F3N159	1F3	1995/12/8	3/11/2011	5572	15.27	28573
1FPPOOL	F3P31	1F3	1997/5/26	3/11/2011	5037	13.80	30530
1FPPOOL	F3N164	1F3	1997/5/26	3/11/2011	5037	13.80	32605
1FPPOOL	F3N155	1F3	1997/5/26	3/11/2011	5037	13.80	32597
1FPPOOL	F3N161	1F3	1997/5/26	3/11/2011	5037	13.80	32534
1FPPOOL	F3N182	1F3	1995/12/8	3/11/2011	5572	15.27	28540
1FPPOOL	F3N166	1F3	1995/12/8	3/11/2011	5572	15.27	28445
1FPPOOL	F3N188	1F3	1995/12/8	3/11/2011	5572	15.27	28361
1FPPOOL	F3N173	1F3	1995/12/8	3/11/2011	5572	15.27	32324
1FPPOOL	F3N195	1F3	1995/12/8	3/11/2011	5572	15.27	31526
1FPPOOL	F3N175	1F3	1995/12/8	3/11/2011	5572	15.27	32332
1FPPOOL	F3N189	1F3	1995/12/8	3/11/2011	5572	15.27	28369
1FPPOOL	F3N172	1F3	1995/12/8	3/11/2011	5572	15.27	32318
1FPPOOL	F3N176	1F3	1995/12/8	3/11/2011	5572	15.27	32308
1FPPOOL	F3N198	1F3	1995/12/8	3/11/2011	5572	15.27	31521
1FPPOOL	F3P30	1F3	1997/5/26	3/11/2011	5037	13.80	30517
1FPPOOL	F3P122	1F3	1997/5/26	3/11/2011	5037	13.80	32909
1FPPOOL	F3N162	1F3	1997/5/26	3/11/2011	5037	13.80	32591
1FPPOOL	F3P26	1F3	1997/5/26	3/11/2011	5037	13.80	30458
1FPPOOL	F3P32	1F3	1997/5/26	3/11/2011	5037	13.80	30530
1FPPOOL	F3N200	1F3	1995/12/8	3/11/2011	5572	15.27	31503
1FPPOOL	F3N185	1F3	1995/12/8	3/11/2011	5572	15.27	28405
1FPPOOL	F3N168	1F3	1995/12/8	3/11/2011	5572	15.27	28442
1FPPOOL	F3N191	1F3	1995/12/8	3/11/2011	5572	15.27	28363
1FPPOOL	F3N184	1F3	1995/12/8	3/11/2011	5572	15.27	28537
1FPPOOL	F3N167	1F3	1995/12/8	3/11/2011	5572	15.27	28448
1FPPOOL	F3N154	1F3	1997/5/26	3/11/2011	5037	13.80	32554
1FPPOOL	F3N177	1F3	1995/12/8	3/11/2011	5572	15.27	28522
1FPPOOL	F3N179	1F3	1995/12/8	3/11/2011	5572	15.27	28525
1FPPOOL	F3N178	1F3	1995/12/8	3/11/2011	5572	15.27	28480
1FPPOOL	F3P25	1F3	1997/5/26	3/11/2011	5037	13.80	30462
1FPPOOL	F3N169	1F3	1995/12/8	3/11/2011	5572	15.27	32303
1FPPOOL	F3N157	1F3	1995/12/8	3/11/2011	5572	15.27	28524
1FPPOOL	F3N153	1F3	1997/5/26	3/11/2011	5037	13.80	32588
1FPPOOL	F3N183	1F3	1995/12/8	3/11/2011	5572	15.27	28497
1FPPOOL	F3N156	1F3	1997/5/26	3/11/2011	5037	13.80	32530
1FPPOOL	F3N186	1F3	1995/12/8	3/11/2011	5572	15.27	28369
1FPPOOL	F3N165	1F3	1995/12/8	3/11/2011	5572	15.27	28428
1FPPOOL	F3N190	1F3	1995/12/8	3/11/2011	5572	15.27	28402
1FPPOOL	F3N192	1F3	1995/12/8	3/11/2011	5572	15.27	28399
1FPPOOL	F3P27	1F3	1997/5/26	3/11/2011	5037	13.80	30459
1FPPOOL	F3P29	1F3	1997/5/26	3/11/2011	5037	13.80	30518
1FPPOOL	F3N160	1F3	1995/12/8	3/11/2011	5572	15.27	28414
1FPPOOL	F3N197	1F3	1995/12/8	3/11/2011	5572	15.27	31519
1FPPOOL	F3N152	1F3	1995/12/8	3/11/2011	5572	15.27	31202
1FPPOOL	F3N187	1F3	1995/12/8	3/11/2011	5572	15.27	28408

1FPPOOL	F3N194	1F3	1995/12/8	3/11/2011	5572	15.27	31554
1FPPOOL	F3N158	1F3	1995/12/8	3/11/2011	5572	15.27	28567
1FPPOOL	F3N180	1F3	1995/12/8	3/11/2011	5572	15.27	28474
1FPPOOL	F3N181	1F3	1995/12/8	3/11/2011	5572	15.27	28480
1FPPOOL	F3N171	1F3	1995/12/8	3/11/2011	5572	15.27	32315
1FPPOOL	F3N174	1F3	1995/12/8	3/11/2011	5572	15.27	32305
1FPPOOL	F3P28	1F3	1997/5/26	3/11/2011	5037	13.80	30464
1FPPOOL	F3N193	1F3	1995/12/8	3/11/2011	5572	15.27	31502
1FPPOOL	F3N196	1F3	1995/12/8	3/11/2011	5572	15.27	31494
1FPPOOL	F3P137	1F3	1997/5/26	3/11/2011	5037	13.80	30778
1FPPOOL	F3P91	1F3	1997/5/26	3/11/2011	5037	13.80	34125
1FPPOOL	F3P120	1F3	1997/5/26	3/11/2011	5037	13.80	32844
1FPPOOL	F3P104	1F3	1997/5/26	3/11/2011	5037	13.80	33652
1FPPOOL	F3P148	1F3	1997/5/26	3/11/2011	5037	13.80	29322
1FPPOOL	F3P107	1F3	1997/5/26	3/11/2011	5037	13.80	33650
1FPPOOL	F3P136	1F3	1997/5/26	3/11/2011	5037	13.80	30748
1FPPOOL	F3P142	1F3	1997/5/26	3/11/2011	5037	13.80	29358
1FPPOOL	F3P138	1F3	1997/5/26	3/11/2011	5037	13.80	30811
1FPPOOL	F3P94	1F3	1997/5/26	3/11/2011	5037	13.80	34144
1FPPOOL	F3P145	1F3	1997/5/26	3/11/2011	5037	13.80	29290
1FPPOOL	F3P93	1F3	1997/5/26	3/11/2011	5037	13.80	34117
1FPPOOL	F3P157	1F3	1997/5/26	3/11/2011	5037	13.80	30427
1FPPOOL	F3P108	1F3	1997/5/26	3/11/2011	5037	13.80	33655
1FPPOOL	F3P121	1F3	1997/5/26	3/11/2011	5037	13.80	32890
1FPPOOL	F3P158	1F3	1997/5/26	3/11/2011	5037	13.80	30257
1FPPOOL	F3P140	1F3	1997/5/26	3/11/2011	5037	13.80	30805
1FPPOOL	F3P92	1F3	1997/5/26	3/11/2011	5037	13.80	34089
1FPPOOL	F3P124	1F3	1997/5/26	3/11/2011	5037	13.80	32904
1FPPOOL	F3P146	1F3	1997/5/26	3/11/2011	5037	13.80	29329
1FPPOOL	F3P117	1F3	1997/5/26	3/11/2011	5037	13.80	32797
1FPPOOL	F3P160	1F3	1997/5/26	3/11/2011	5037	13.80	30285
1FPPOOL	F3P135	1F3	1997/5/26	3/11/2011	5037	13.80	30806
1FPPOOL	F3P139	1F3	1997/5/26	3/11/2011	5037	13.80	30737
1FPPOOL	F3P101	1F3	1997/5/26	3/11/2011	5037	13.80	33670
1FPPOOL	F3P123	1F3	1997/5/26	3/11/2011	5037	13.80	32899
1FPPOOL	F3P133	1F3	1997/5/26	3/11/2011	5037	13.80	30825
1FPPOOL	F3P106	1F3	1997/5/26	3/11/2011	5037	13.80	33662
1FPPOOL	F3P161	1F3	1997/5/26	3/11/2011	5037	13.80	30304
1FPPOOL	F3P95	1F3	1997/5/26	3/11/2011	5037	13.80	34121
1FPPOOL	F3P96	1F3	1997/5/26	3/11/2011	5037	13.80	34090
1FPPOOL	F3P103	1F3	1997/5/26	3/11/2011	5037	13.80	33681
1FPPOOL	F3P89	1F3	1997/5/26	3/11/2011	5037	13.80	34107
1FPPOOL	F3P90	1F3	1997/5/26	3/11/2011	5037	13.80	34100
1FPPOOL	F3P118	1F3	1997/5/26	3/11/2011	5037	13.80	32886
1FPPOOL	F3P134	1F3	1997/5/26	3/11/2011	5037	13.80	30721
1FPPOOL	F3P119	1F3	1997/5/26	3/11/2011	5037	13.80	32873
1FPPOOL	F3P141	1F3	1997/5/26	3/11/2011	5037	13.80	29351
1FPPOOL	F3P143	1F3	1997/5/26	3/11/2011	5037	13.80	29352
1FPPOOL	F3P102	1F3	1997/5/26	3/11/2011	5037	13.80	33658
1FPPOOL	F3P105	1F3	1997/5/26	3/11/2011	5037	13.80	33651
1FPPOOL	F3P164	1F3	1997/5/26	3/11/2011	5037	13.80	30470
1FPPOOL	F3P162	1F3	1997/5/26	3/11/2011	5037	13.80	30452
1FPPOOL	F3P163	1F3	1997/5/26	3/11/2011	5037	13.80	30301

1FPPOOL	F4C53	1F4	1988/1/10	3/11/2011	8461	23.18	25235
1FPPOOL	F4CN10	1F4	1988/1/10	3/11/2011	8461	23.18	25431
1FPPOOL	F4CN14	1F4	1988/1/10	3/11/2011	8461	23.18	25393
1FPPOOL	F4C128	1F4	1988/1/10	3/11/2011	8461	23.18	25273
1FPPOOL	F4CN1	1F4	1988/1/10	3/11/2011	8461	23.18	25433
1FPPOOL	F4CN5	1F4	1988/1/10	3/11/2011	8461	23.18	25396
1FPPOOL	F4C72	1F4	1988/1/10	3/11/2011	8461	23.18	25390
1FPPOOL	F4D21	1F4	1988/1/10	3/11/2011	8461	23.18	25010
1FPPOOL	F4D23	1F4	1988/1/10	3/11/2011	8461	23.18	25215
1FPPOOL	F4D70	1F4	1988/1/10	3/11/2011	8461	23.18	25651
1FPPOOL	F4D57	1F4	1988/1/10	3/11/2011	8461	23.18	25217
1FPPOOL	F4D58	1F4	1988/1/10	3/11/2011	8461	23.18	25640
1FPPOOL	F4D64	1F4	1988/1/10	3/11/2011	8461	23.18	25261
1FPPOOL	F4D76	1F4	1988/1/10	3/11/2011	8461	23.18	25275
1FPPOOL	F4D80	1F4	1988/1/10	3/11/2011	8461	23.18	25199
1FPPOOL	F4D82	1F4	1988/1/10	3/11/2011	8461	23.18	25013
1FPPOOL	F4CN18	1F4	1988/1/10	3/11/2011	8461	23.18	25418
1FPPOOL	F4CN21	1F4	1988/1/10	3/11/2011	8461	23.18	25421
1FPPOOL	F4CN24	1F4	1988/1/10	3/11/2011	8461	23.18	25307
1FPPOOL	F4D27	1F4	1988/1/10	3/11/2011	8461	23.18	25266
1FPPOOL	F4D33	1F4	1988/1/10	3/11/2011	8461	23.18	25632
1FPPOOL	F4D35	1F4	1988/1/10	3/11/2011	8461	23.18	24996
1FPPOOL	F4D107	1F4	1988/1/10	3/11/2011	8461	23.18	25239
1FPPOOL	F4D113	1F4	1988/1/10	3/11/2011	8461	23.18	25622
1FPPOOL	F4C10	1F4	1988/1/10	3/11/2011	8461	23.18	25507
1FPPOOL	F4C102	1F4	1988/1/10	3/11/2011	8461	23.18	25050
1FPPOOL	F4C104	1F4	1988/1/10	3/11/2011	8461	23.18	25449
1FPPOOL	F4D136	1F4	1988/1/10	3/11/2011	8461	23.18	25017
1FPPOOL	F4D114	1F4	1988/1/10	3/11/2011	8461	23.18	25205
1FPPOOL	F4D140	1F4	1988/1/10	3/11/2011	8461	23.18	25401
1FPPOOL	F4D141	1F4	1988/1/10	3/11/2011	8461	23.18	26633
1FPPOOL	F4C108	1F4	1988/1/10	3/11/2011	8461	23.18	25366
1FPPOOL	F4D144	1F4	1988/1/10	3/11/2011	8461	23.18	26725
1FPPOOL	F4D145	1F4	1988/1/10	3/11/2011	8461	23.18	25938
1FPPOOL	F4D147	1F4	1988/1/10	3/11/2011	8461	23.18	25937
1FPPOOL	F4C12	1F4	1988/1/10	3/11/2011	8461	23.18	25091
1FPPOOL	F4CN7	1F4	1988/1/10	3/11/2011	8461	23.18	25306
1FPPOOL	F4F16	1F4	1990/9/8	3/11/2011	7489	20.52	28664
1FPPOOL	F4F30	1F4	1990/9/8	3/11/2011	7489	20.52	28763
1FPPOOL	F4E22	1F4	1989/3/11	3/11/2011	8035	22.01	25827
1FPPOOL	F4E42	1F4	1990/9/8	3/11/2011	7489	20.52	29174
1FPPOOL	F4E45	1F4	1988/1/10	3/11/2011	8461	23.18	28161
1FPPOOL	F4E53	1F4	1990/9/8	3/11/2011	7489	20.52	29234
1FPPOOL	F4DN25	1F4	1988/1/10	3/11/2011	8461	23.18	25346
1FPPOOL	F4E27	1F4	1990/9/8	3/11/2011	7489	20.52	28404
1FPPOOL	F4E96	1F4	1989/3/11	3/11/2011	8035	22.01	28675
1FPPOOL	F4E97	1F4	1989/3/11	3/11/2011	8035	22.01	27065
1FPPOOL	F4E115	1F4	1989/3/11	3/11/2011	8035	22.01	37504
1FPPOOL	F4E121	1F4	1989/3/11	3/11/2011	8035	22.01	28849
1FPPOOL	F4E75	1F4	1989/3/11	3/11/2011	8035	22.01	28729
1FPPOOL	F4E137	1F4	1989/3/11	3/11/2011	8035	22.01	27559
1FPPOOL	F4E98	1F4	1989/3/11	3/11/2011	8035	22.01	27153
1FPPOOL	F4EN8	1F4	1989/3/11	3/11/2011	8035	22.01	28691

1FPPOOL	F4EN29	1F4	1989/3/11	3/11/2011	8035	22.01	27104
1FPPOOL	F4E138	1F4	1989/3/11	3/11/2011	8035	22.01	27489
1FPPOOL	F4EN30	1F4	1989/3/11	3/11/2011	8035	22.01	28441
1FPPOOL	F4E72	1F4	1989/3/11	3/11/2011	8035	22.01	27974
1FPPOOL	F4E145	1F4	1989/3/11	3/11/2011	8035	22.01	27076
1FPPOOL	F4E146	1F4	1989/3/11	3/11/2011	8035	22.01	27436
1FPPOOL	F4F29	1F4	1990/9/8	3/11/2011	7489	20.52	29513
1FPPOOL	F4F33	1F4	1989/3/11	3/11/2011	8035	22.01	27069
1FPPOOL	F4EN31	1F4	1989/3/11	3/11/2011	8035	22.01	28391
1FPPOOL	F4F11	1F4	1989/3/11	3/11/2011	8035	22.01	25608
1FPPOOL	F4E81	1F4	1989/3/11	3/11/2011	8035	22.01	25979
1FPPOOL	F4F58	1F4	1989/3/11	3/11/2011	8035	22.01	28943
1FPPOOL	F4F19	1F4	1989/3/11	3/11/2011	8035	22.01	27043
1FPPOOL	F4E35	1F4	1990/9/8	3/11/2011	7489	20.52	29240
1FPPOOL	F4E36	1F4	1988/1/10	3/11/2011	8461	23.18	28120
1FPPOOL	F4E32	1F4	1989/3/11	3/11/2011	8035	22.01	25892
1FPPOOL	F4F2	1F4	1990/9/8	3/11/2011	7489	20.52	28732
1FPPOOL	F4F45	1F4	1990/9/8	3/11/2011	7489	20.52	28655
1FPPOOL	F4F59	1F4	1990/9/8	3/11/2011	7489	20.52	28250
1FPPOOL	F4E128	1F4	1989/3/11	3/11/2011	8035	22.01	27587
1FPPOOL	F4F46	1F4	1989/3/11	3/11/2011	8035	22.01	27427
1FPPOOL	F4DN21	1F4	1988/1/10	3/11/2011	8461	23.18	25600
1FPPOOL	F4E86	1F4	1989/3/11	3/11/2011	8035	22.01	27073
1FPPOOL	F4EN10	1F4	1989/3/11	3/11/2011	8035	22.01	28402
1FPPOOL	F4F66	1F4	1990/9/8	3/11/2011	7489	20.52	28776
1FPPOOL	F4E126	1F4	1989/3/11	3/11/2011	8035	22.01	27049
1FPPOOL	F4DN13	1F4	1988/1/10	3/11/2011	8461	23.18	25358
1FPPOOL	F4EN12	1F4	1989/3/11	3/11/2011	8035	22.01	27119
1FPPOOL	F4EN14	1F4	1988/1/10	3/11/2011	8461	23.18	25356
1FPPOOL	F4F31	1F4	1989/3/11	3/11/2011	8035	22.01	27474
1FPPOOL	F4E127	1F4	1989/3/11	3/11/2011	8035	22.01	27484
1FPPOOL	F4E85	1F4	1989/3/11	3/11/2011	8035	22.01	28712
1FPPOOL	F4F67	1F4	1992/2/22	3/11/2011	6957	19.06	31094
1FPPOOL	F4F68	1F4	1990/9/8	3/11/2011	7489	20.52	29253
1FPPOOL	F4F17	1F4	1989/3/11	3/11/2011	8035	22.01	27446
1FPPOOL	F4E37	1F4	1990/9/8	3/11/2011	7489	20.52	28419
1FPPOOL	F4E65	1F4	1989/3/11	3/11/2011	8035	22.01	27035
1FPPOOL	F4E49	1F4	1988/1/10	3/11/2011	8461	23.18	28275
1FPPOOL	F4E11	1F4	1990/9/8	3/11/2011	7489	20.52	29198
1FPPOOL	F4DN1	1F4	1988/1/10	3/11/2011	8461	23.18	25634
1FPPOOL	F4E99	1F4	1989/3/11	3/11/2011	8035	22.01	28536
1FPPOOL	F4E105	1F4	1989/3/11	3/11/2011	8035	22.01	28864
1FPPOOL	F4F5	1F4	1989/3/11	3/11/2011	8035	22.01	27037
1FPPOOL	F4F48	1F4	1989/3/11	3/11/2011	8035	22.01	27023
1FPPOOL	F4F22	1F4	1989/3/11	3/11/2011	8035	22.01	28434
1FPPOOL	F4F69	1F4	1990/9/8	3/11/2011	7489	20.52	28775
1FPPOOL	F4EN16	1F4	1989/3/11	3/11/2011	8035	22.01	28959
1FPPOOL	F4EN17	1F4	1989/3/11	3/11/2011	8035	22.01	28681
1FPPOOL	F4E125	1F4	1989/3/11	3/11/2011	8035	22.01	29010
1FPPOOL	F4E9	1F4	1990/9/8	3/11/2011	7489	20.52	28412
1FPPOOL	F4E10	1F4	1988/1/10	3/11/2011	8461	23.18	28130
1FPPOOL	F4E87	1F4	1989/3/11	3/11/2011	8035	22.01	27221
1FPPOOL	F4E88	1F4	1989/3/11	3/11/2011	8035	22.01	28476

1FPPOOL	F4E155	1F4	1989/3/11	3/11/2011	8035	22.01	27587
1FPPOOL	F4F70	1F4	1990/9/8	3/11/2011	7489	20.52	29602
1FPPOOL	F4EN21	1F4	1988/1/10	3/11/2011	8461	23.18	25369
1FPPOOL	F4F36	1F4	1989/3/11	3/11/2011	8035	22.01	28445
1FPPOOL	F4F4	1F4	1990/9/8	3/11/2011	7489	20.52	29369
1FPPOOL	F4E131	1F4	1989/3/11	3/11/2011	8035	22.01	28785
1FPPOOL	F4F3	1F4	1989/3/11	3/11/2011	8035	22.01	27435
1FPPOOL	F4E156	1F4	1989/3/11	3/11/2011	8035	22.01	27515
1FPPOOL	F4E143	1F4	1989/3/11	3/11/2011	8035	22.01	28153
1FPPOOL	F4F71	1F4	1990/9/8	3/11/2011	7489	20.52	29494
1FPPOOL	F4E50	1F4	1990/9/8	3/11/2011	7489	20.52	28316
1FPPOOL	F4F51	1F4	1989/3/11	3/11/2011	8035	22.01	28406
1FPPOOL	F4D149	1F4	1988/1/10	3/11/2011	8461	23.18	25275
1FPPOOL	F4D151	1F4	1988/1/10	3/11/2011	8461	23.18	26632
1FPPOOL	F4D154	1F4	1988/1/10	3/11/2011	8461	23.18	26725
1FPPOOL	F4D155	1F4	1988/1/10	3/11/2011	8461	23.18	25934
1FPPOOL	F4D156	1F4	1988/1/10	3/11/2011	8461	23.18	26747
1FPPOOL	F4D159	1F4	1988/1/10	3/11/2011	8461	23.18	26626
1FPPOOL	F4D160	1F4	1988/1/10	3/11/2011	8461	23.18	25382
1FPPOOL	F4E93	1F4	1989/3/11	3/11/2011	8035	22.01	27998
1FPPOOL	F4E108	1F4	1989/3/11	3/11/2011	8035	22.01	37544
1FPPOOL	F4E110	1F4	1989/3/11	3/11/2011	8035	22.01	37510
1FPPOOL	F4E66	1F4	1989/3/11	3/11/2011	8035	22.01	27163
1FPPOOL	F4E113	1F4	1989/3/11	3/11/2011	8035	22.01	37508
1FPPOOL	F4E91	1F4	1989/3/11	3/11/2011	8035	22.01	25913
1FPPOOL	F4D162	1F4	1988/1/10	3/11/2011	8461	23.18	24989
1FPPOOL	F4D164	1F4	1988/1/10	3/11/2011	8461	23.18	26770
1FPPOOL	F4E94	1F4	1989/3/11	3/11/2011	8035	22.01	28750
1FPPOOL	F4EN22	1F4	1989/3/11	3/11/2011	8035	22.01	28972
1FPPOOL	F4EN25	1F4	1989/3/11	3/11/2011	8035	22.01	28961
1FPPOOL	F4E67	1F4	1989/3/11	3/11/2011	8035	22.01	28434
1FPPOOL	F4D167	1F4	1988/1/10	3/11/2011	8461	23.18	26660
1FPPOOL	F4D168	1F4	1988/1/10	3/11/2011	8461	23.18	25000
1FPPOOL	F4D169	1F4	1988/1/10	3/11/2011	8461	23.18	25247
1FPPOOL	F4D171	1F4	1988/1/10	3/11/2011	8461	23.18	25955
1FPPOOL	F4E76	1F4	1989/3/11	3/11/2011	8035	22.01	27090
1FPPOOL	F4E77	1F4	1989/3/11	3/11/2011	8035	22.01	27220
1FPPOOL	F4E78	1F4	1989/3/11	3/11/2011	8035	22.01	28511
1FPPOOL	F4EN3	1F4	1989/3/11	3/11/2011	8035	22.01	28935
1FPPOOL	F4F26	1F4	1990/9/8	3/11/2011	7489	20.52	29443
1FPPOOL	F4E134	1F4	1989/3/11	3/11/2011	8035	22.01	28163
1FPPOOL	F4F43	1F4	1989/3/11	3/11/2011	8035	22.01	28941
1FPPOOL	F4E133	1F4	1989/3/11	3/11/2011	8035	22.01	28385
1FPPOOL	F4E140	1F4	1989/3/11	3/11/2011	8035	22.01	28448
1FPPOOL	F4E142	1F4	1989/3/11	3/11/2011	8035	22.01	28329
1FPPOOL	F4E147	1F4	1989/3/11	3/11/2011	8035	22.01	27515
1FPPOOL	F4G22	1F4	1990/9/8	3/11/2011	7489	20.52	28865
1FPPOOL	F4F86	1F4	1990/9/8	3/11/2011	7489	20.52	29200
1FPPOOL	F4F92	1F4	1990/9/8	3/11/2011	7489	20.52	28331
1FPPOOL	F4G18	1F4	1990/9/8	3/11/2011	7489	20.52	28069
1FPPOOL	F4F95	1F4	1990/9/8	3/11/2011	7489	20.52	28230
1FPPOOL	F4G21	1F4	1990/9/8	3/11/2011	7489	20.52	29307
1FPPOOL	F4F77	1F4	1990/9/8	3/11/2011	7489	20.52	28255

1FPPOOL	F4F117	1F4	1990/9/8	3/11/2011	7489	20.52	29169
1FPPOOL	F4FN7	1F4	1989/3/11	3/11/2011	8035	22.01	27843
1FPPOOL	F4F108	1F4	1990/9/8	3/11/2011	7489	20.52	29387
1FPPOOL	F4FN32	1F4	1989/3/11	3/11/2011	8035	22.01	27130
1FPPOOL	F4F125	1F4	1990/9/8	3/11/2011	7489	20.52	29571
1FPPOOL	F4F126	1F4	1990/9/8	3/11/2011	7489	20.52	29435
1FPPOOL	F4F103	1F4	1992/2/22	3/11/2011	6957	19.06	31060
1FPPOOL	F4FN15	1F4	1989/3/11	3/11/2011	8035	22.01	27839
1FPPOOL	F4G39	1F4	1990/9/8	3/11/2011	7489	20.52	31811
1FPPOOL	F4G24	1F4	1990/9/8	3/11/2011	7489	20.52	28744
1FPPOOL	F4G33	1F4	1990/9/8	3/11/2011	7489	20.52	29568
1FPPOOL	F4G34	1F4	1990/9/8	3/11/2011	7489	20.52	28079
1FPPOOL	F4F87	1F4	1990/9/8	3/11/2011	7489	20.52	28749
1FPPOOL	F4G42	1F4	1990/9/8	3/11/2011	7489	20.52	29394
1FPPOOL	F4G12	1F4	1992/2/22	3/11/2011	6957	19.06	28673
1FPPOOL	F4G52	1F4	1990/9/8	3/11/2011	7489	20.52	28936
1FPPOOL	F4G56	1F4	1990/9/8	3/11/2011	7489	20.52	28740
1FPPOOL	F4F120	1F4	1990/9/8	3/11/2011	7489	20.52	28745
1FPPOOL	F4F129	1F4	1990/9/8	3/11/2011	7489	20.52	31431
1FPPOOL	F4G58	1F4	1990/9/8	3/11/2011	7489	20.52	29401
1FPPOOL	F4G49	1F4	1990/9/8	3/11/2011	7489	20.52	29613
1FPPOOL	F4F109	1F4	1990/9/8	3/11/2011	7489	20.52	29593
1FPPOOL	F4G2	1F4	1990/9/8	3/11/2011	7489	20.52	28018
1FPPOOL	F4G50	1F4	1990/9/8	3/11/2011	7489	20.52	28089
1FPPOOL	F4FN19	1F4	1989/3/11	3/11/2011	8035	22.01	28286
1FPPOOL	F4G60	1F4	1992/2/22	3/11/2011	6957	19.06	28680
1FPPOOL	F4G36	1F4	1990/9/8	3/11/2011	7489	20.52	28890
1FPPOOL	F4F128	1F4	1990/9/8	3/11/2011	7489	20.52	28358
1FPPOOL	F4G53	1F4	1990/9/8	3/11/2011	7489	20.52	29360
1FPPOOL	F4G54	1F4	1990/9/8	3/11/2011	7489	20.52	28916
1FPPOOL	F4G55	1F4	1990/9/8	3/11/2011	7489	20.52	31825
1FPPOOL	F4F110	1F4	1990/9/8	3/11/2011	7489	20.52	28326
1FPPOOL	F4G23	1F4	1990/9/8	3/11/2011	7489	20.52	31820
1FPPOOL	F4F90	1F4	1990/9/8	3/11/2011	7489	20.52	29395
1FPPOOL	F4G45	1F4	1990/9/8	3/11/2011	7489	20.52	29034
1FPPOOL	F4F93	1F4	1990/9/8	3/11/2011	7489	20.52	31429
1FPPOOL	F4F81	1F4	1990/9/8	3/11/2011	7489	20.52	29195
1FPPOOL	F4F74	1F4	1990/9/8	3/11/2011	7489	20.52	28317
1FPPOOL	F4F84	1F4	1990/9/8	3/11/2011	7489	20.52	28764
1FPPOOL	F4F113	1F4	1990/9/8	3/11/2011	7489	20.52	28238
1FPPOOL	F4F121	1F4	1992/2/22	3/11/2011	6957	19.06	31073
1FPPOOL	F4G44	1F4	1992/2/22	3/11/2011	6957	19.06	28676
1FPPOOL	F4FN22	1F4	1989/3/11	3/11/2011	8035	22.01	27858
1FPPOOL	F4G4	1F4	1990/9/8	3/11/2011	7489	20.52	28839
1FPPOOL	F4FN24	1F4	1989/3/11	3/11/2011	8035	22.01	27124
1FPPOOL	F4G35	1F4	1990/9/8	3/11/2011	7489	20.52	29562
1FPPOOL	F4G38	1F4	1990/9/8	3/11/2011	7489	20.52	28883
1FPPOOL	F4G13	1F4	1990/9/8	3/11/2011	7489	20.52	29021
1FPPOOL	F4FN12	1F4	1989/3/11	3/11/2011	8035	22.01	28274
1FPPOOL	F4FN13	1F4	1989/3/11	3/11/2011	8035	22.01	25608
1FPPOOL	F4F85	1F4	1992/2/22	3/11/2011	6957	19.06	31070
1FPPOOL	F4G20	1F4	1990/9/8	3/11/2011	7489	20.52	28869
1FPPOOL	F4F82	1F4	1990/9/8	3/11/2011	7489	20.52	32010

1FPPOOL	F4F123	1F4	1990/9/8	3/11/2011	7489	20.52	28775
1FPPOOL	F4FN27	1F4	1989/3/11	3/11/2011	8035	22.01	28290
1FPPOOL	F4FN28	1F4	1989/3/11	3/11/2011	8035	22.01	25616
1FPPOOL	F4G6	1F4	1990/9/8	3/11/2011	7489	20.52	28836
1FPPOOL	F4F100	1F4	1990/9/8	3/11/2011	7489	20.52	32005
1FPPOOL	F4F73	1F4	1990/9/8	3/11/2011	7489	20.52	29558
1FPPOOL	F4F102	1F4	1990/9/8	3/11/2011	7489	20.52	28727
1FPPOOL	F4F105	1F4	1990/9/8	3/11/2011	7489	20.52	28747
1FPPOOL	F4F106	1F4	1990/9/8	3/11/2011	7489	20.52	29593
1FPPOOL	F4FN30	1F4	1989/3/11	3/11/2011	8035	22.01	27868
1FPPOOL	F4G28	1F4	1992/2/22	3/11/2011	6957	19.06	28658
1FPPOOL	F4G7	1F4	1990/9/8	3/11/2011	7489	20.52	31739
1FPPOOL	F4G8	1F4	1990/9/8	3/11/2011	7489	20.52	28673
1FPPOOL	F4G37	1F4	1990/9/8	3/11/2011	7489	20.52	29334
1FPPOOL	F4G40	1F4	1990/9/8	3/11/2011	7489	20.52	28733
1FPPOOL	F4FN2	1F4	1989/3/11	3/11/2011	8035	22.01	29011
1FPPOOL	F4FN10	1F4	1989/3/11	3/11/2011	8035	22.01	29024
1FPPOOL	F4FN17	1F4	1989/3/11	3/11/2011	8035	22.01	29024
1FPPOOL	F4H10	1F4	1992/2/22	3/11/2011	6957	19.06	31550
1FPPOOL	F4G73	1F4	1992/2/22	3/11/2011	6957	19.06	25163
1FPPOOL	F4G75	1F4	1992/2/22	3/11/2011	6957	19.06	31768
1FPPOOL	F4G79	1F4	1992/2/22	3/11/2011	6957	19.06	28085
1FPPOOL	F4G68	1F4	1992/2/22	3/11/2011	6957	19.06	28637
1FPPOOL	F4G69	1F4	1992/2/22	3/11/2011	6957	19.06	28372
1FPPOOL	F4G82	1F4	1992/2/22	3/11/2011	6957	19.06	25526
1FPPOOL	F4GN4	1F4	1990/9/8	3/11/2011	7489	20.52	28991
1FPPOOL	F4G97	1F4	1992/2/22	3/11/2011	6957	19.06	28328
1FPPOOL	F4G91	1F4	1992/2/22	3/11/2011	6957	19.06	25512
1FPPOOL	F4GN25	1F4	1990/9/8	3/11/2011	7489	20.52	28926
1FPPOOL	F4H2	1F4	1992/2/22	3/11/2011	6957	19.06	32367
1FPPOOL	F4G87	1F4	1992/2/22	3/11/2011	6957	19.06	28361
1FPPOOL	F4GN17	1F4	1990/9/8	3/11/2011	7489	20.52	28949
1FPPOOL	F4GN20	1F4	1990/9/8	3/11/2011	7489	20.52	28974
1FPPOOL	F4H23	1F4	1992/2/22	3/11/2011	6957	19.06	32658
1FPPOOL	F4H103	1F4	1992/2/22	3/11/2011	6957	19.06	34054
1FPPOOL	F4GN14	1F4	1992/2/22	3/11/2011	6957	19.06	32001
1FPPOOL	F4H31	1F4	1993/9/4	3/11/2011	6397	17.53	29397
1FPPOOL	F4G76	1F4	1992/2/22	3/11/2011	6957	19.06	25166
1FPPOOL	F4G83	1F4	1992/2/22	3/11/2011	6957	19.06	25136
1FPPOOL	F4G77	1F4	1992/2/22	3/11/2011	6957	19.06	28358
1FPPOOL	F4G100	1F4	1992/2/22	3/11/2011	6957	19.06	26818
1FPPOOL	F4G67	1F4	1992/2/22	3/11/2011	6957	19.06	26735
1FPPOOL	F4GN8	1F4	1990/9/8	3/11/2011	7489	20.52	28863
1FPPOOL	F4G99	1F4	1992/2/22	3/11/2011	6957	19.06	31741
1FPPOOL	F4H30	1F4	1992/2/22	3/11/2011	6957	19.06	31512
1FPPOOL	F4G92	1F4	1992/2/22	3/11/2011	6957	19.06	25551
1FPPOOL	F4G70	1F4	1992/2/22	3/11/2011	6957	19.06	28122
1FPPOOL	F4G93	1F4	1992/2/22	3/11/2011	6957	19.06	23625
1FPPOOL	F4GN28	1F4	1990/9/8	3/11/2011	7489	20.52	28864
1FPPOOL	F4H5	1F4	1992/2/22	3/11/2011	6957	19.06	32668
1FPPOOL	F4G84	1F4	1992/2/22	3/11/2011	6957	19.06	31735
1FPPOOL	F4G80	1F4	1992/2/22	3/11/2011	6957	19.06	26739
1FPPOOL	F4G71	1F4	1992/2/22	3/11/2011	6957	19.06	26846

1FPPOOL	F4G94	1F4	1992/2/22	3/11/2011	6957	19.06	26728
1FPPOOL	F4G74	1F4	1992/2/22	3/11/2011	6957	19.06	26845
1FPPOOL	F4G98	1F4	1992/2/22	3/11/2011	6957	19.06	25152
1FPPOOL	F4GN1	1F4	1990/9/8	3/11/2011	7489	20.52	28956
1FPPOOL	F4H26	1F4	1992/2/22	3/11/2011	6957	19.06	32408
1FPPOOL	F4GN30	1F4	1992/2/22	3/11/2011	6957	19.06	32016
1FPPOOL	F4GN6	1F4	1992/2/22	3/11/2011	6957	19.06	32016
1FPPOOL	F4GN9	1F4	1990/9/8	3/11/2011	7489	20.52	28956
1FPPOOL	F4GN22	1F4	1992/2/22	3/11/2011	6957	19.06	32019
1FPPOOL	F4H40	1F4	1992/2/22	3/11/2011	6957	19.06	31511
1FPPOOL	F4G81	1F4	1992/2/22	3/11/2011	6957	19.06	23635
1FPPOOL	F4GN16	1F4	1990/9/8	3/11/2011	7489	20.52	28864
1FPPOOL	F4G72	1F4	1992/2/22	3/11/2011	6957	19.06	31757
1FPPOOL	F4H41	1F4	1992/2/22	3/11/2011	6957	19.06	32661
1FPPOOL	F4G65	1F4	1992/2/22	3/11/2011	6957	19.06	25561
1FPPOOL	F4G96	1F4	1992/2/22	3/11/2011	6957	19.06	28598
1FPPOOL	F4GN12	1F4	1990/9/8	3/11/2011	7489	20.52	28852
1FPPOOL	F4H6	1F4	1992/2/22	3/11/2011	6957	19.06	31508
1FPPOOL	F4G95	1F4	1992/2/22	3/11/2011	6957	19.06	28082
1FPPOOL	F4G78	1F4	1992/2/22	3/11/2011	6957	19.06	28653
1FPPOOL	F4GN23	1F4	1990/9/8	3/11/2011	7489	20.52	29671
1FPPOOL	F4GN24	1F4	1990/9/8	3/11/2011	7489	20.52	28863
1FPPOOL	F4GN31	1F4	1990/9/8	3/11/2011	7489	20.52	29667
1FPPOOL	F4G85	1F4	1992/2/22	3/11/2011	6957	19.06	26830
1FPPOOL	F4H62	1F4	1993/9/4	3/11/2011	6397	17.53	27811
1FPPOOL	F4G86	1F4	1992/2/22	3/11/2011	6957	19.06	28086
1FPPOOL	F4G66	1F4	1992/2/22	3/11/2011	6957	19.06	23643
1FPPOOL	F4H15	1F4	1993/9/4	3/11/2011	6397	17.53	29406
1FPPOOL	F4GN32	1F4	1990/9/8	3/11/2011	7489	20.52	28883
1FPPOOL	F4G89	1F4	1992/2/22	3/11/2011	6957	19.06	26750
1FPPOOL	F4G88	1F4	1992/2/22	3/11/2011	6957	19.06	28642
1FPPOOL	F4G90	1F4	1992/2/22	3/11/2011	6957	19.06	23609
1FPPOOL	F4H109	1F4	1992/2/22	3/11/2011	6957	19.06	33993
1FPPOOL	F4H108	1F4	1993/9/4	3/11/2011	6397	17.53	29409
1FPPOOL	F4HN4	1F4	1992/2/22	3/11/2011	6957	19.06	30898
1FPPOOL	F4H73	1F4	1993/9/4	3/11/2011	6397	17.53	27798
1FPPOOL	F4H80	1F4	1993/9/4	3/11/2011	6397	17.53	27782
1FPPOOL	F4H46	1F4	1992/2/22	3/11/2011	6957	19.06	31517
1FPPOOL	F4H67	1F4	1993/9/4	3/11/2011	6397	17.53	26739
1FPPOOL	F4H74	1F4	1993/9/4	3/11/2011	6397	17.53	31616
1FPPOOL	F4H95	1F4	1992/2/22	3/11/2011	6957	19.06	34021
1FPPOOL	F4H64	1F4	1993/9/4	3/11/2011	6397	17.53	26081
1FPPOOL	F4H86	1F4	1993/9/4	3/11/2011	6397	17.53	30295
1FPPOOL	F4H68	1F4	1993/9/4	3/11/2011	6397	17.53	26738
1FPPOOL	F4H91	1F4	1992/2/22	3/11/2011	6957	19.06	34027
1FPPOOL	F4J47	1F4	1995/2/26	3/11/2011	5857	16.05	29765
1FPPOOL	F4H119	1F4	1992/2/22	3/11/2011	6957	19.06	34030
1FPPOOL	F4H124	1F4	1992/2/22	3/11/2011	6957	19.06	32421
1FPPOOL	F4HN1	1F4	1992/2/22	3/11/2011	6957	19.06	32426
1FPPOOL	F4HN8	1F4	1992/2/22	3/11/2011	6957	19.06	31176
1FPPOOL	F4H76	1F4	1993/9/4	3/11/2011	6397	17.53	30332
1FPPOOL	F4H44	1F4	1992/2/22	3/11/2011	6957	19.06	32409
1FPPOOL	F4H75	1F4	1993/9/4	3/11/2011	6397	17.53	26786

1FPPOOL	F4H69	1F4	1993/9/4	3/11/2011	6397	17.53	25847
1FPPOOL	F4H96	1F4	1993/9/4	3/11/2011	6397	17.53	29408
1FPPOOL	F4HN13	1F4	1992/2/22	3/11/2011	6957	19.06	30881
1FPPOOL	F4H82	1F4	1993/9/4	3/11/2011	6397	17.53	31570
1FPPOOL	F4HN9	1F4	1992/2/22	3/11/2011	6957	19.06	31160
1FPPOOL	F4HN2	1F4	1992/2/22	3/11/2011	6957	19.06	32209
1FPPOOL	F4H50	1F4	1992/2/22	3/11/2011	6957	19.06	32384
1FPPOOL	F4H112	1F4	1992/2/22	3/11/2011	6957	19.06	32452
1FPPOOL	F4H77	1F4	1993/9/4	3/11/2011	6397	17.53	25585
1FPPOOL	F4H53	1F4	1992/2/22	3/11/2011	6957	19.06	32670
1FPPOOL	F4H71	1F4	1993/9/4	3/11/2011	6397	17.53	25746
1FPPOOL	F4H92	1F4	1992/2/22	3/11/2011	6957	19.06	32429
1FPPOOL	F4H98	1F4	1992/2/22	3/11/2011	6957	19.06	32414
1FPPOOL	F4H81	1F4	1993/9/4	3/11/2011	6397	17.53	31580
1FPPOOL	F4H83	1F4	1993/9/4	3/11/2011	6397	17.53	27743
1FPPOOL	F4H70	1F4	1993/9/4	3/11/2011	6397	17.53	30294
1FPPOOL	F4HN16	1F4	1992/2/22	3/11/2011	6957	19.06	32411
1FPPOOL	F4H113	1F4	1992/2/22	3/11/2011	6957	19.06	34042
1FPPOOL	F4H122	1F4	1992/2/22	3/11/2011	6957	19.06	34005
1FPPOOL	F4H61	1F4	1993/9/4	3/11/2011	6397	17.53	31633
1FPPOOL	F4H88	1F4	1993/9/4	3/11/2011	6397	17.53	26780
1FPPOOL	F4HN17	1F4	1992/2/22	3/11/2011	6957	19.06	31144
1FPPOOL	F4H72	1F4	1993/9/4	3/11/2011	6397	17.53	27890
1FPPOOL	F4H78	1F4	1993/9/4	3/11/2011	6397	17.53	26066
1FPPOOL	F4H85	1F4	1993/9/4	3/11/2011	6397	17.53	25741
1FPPOOL	F4H79	1F4	1993/9/4	3/11/2011	6397	17.53	27913
1FPPOOL	F4H100	1F4	1992/2/22	3/11/2011	6957	19.06	33984
1FPPOOL	F4J6	1F4	1993/9/4	3/11/2011	6397	17.53	33806
1FPPOOL	F4H63	1F4	1993/9/4	3/11/2011	6397	17.53	27939
1FPPOOL	F4H65	1F4	1993/9/4	3/11/2011	6397	17.53	25571
1FPPOOL	F4H66	1F4	1993/9/4	3/11/2011	6397	17.53	30295
1FPPOOL	F4H84	1F4	1993/9/4	3/11/2011	6397	17.53	27865
1FPPOOL	F4H87	1F4	1993/9/4	3/11/2011	6397	17.53	25838
1FPPOOL	F4J67	1F4	1993/9/4	3/11/2011	6397	17.53	28738
1FPPOOL	F4J2	1F4	1993/9/4	3/11/2011	6397	17.53	33035
1FPPOOL	F4J73	1F4	1993/9/4	3/11/2011	6397	17.53	33179
1FPPOOL	F4J72	1F4	1993/9/4	3/11/2011	6397	17.53	27982
1FPPOOL	F4J54	1F4	1993/9/4	3/11/2011	6397	17.53	31001
1FPPOOL	F4HN21	1F4	1992/2/22	3/11/2011	6957	19.06	30902
1FPPOOL	F4HN28	1F4	1992/2/22	3/11/2011	6957	19.06	30902
1FPPOOL	F4J23	1F4	1993/9/4	3/11/2011	6397	17.53	27909
1FPPOOL	F4J29	1F4	1993/9/4	3/11/2011	6397	17.53	27919
1FPPOOL	F4J52	1F4	1993/9/4	3/11/2011	6397	17.53	30763
1FPPOOL	F4J17	1F4	1993/9/4	3/11/2011	6397	17.53	33797
1FPPOOL	F4J11	1F4	1993/9/4	3/11/2011	6397	17.53	27897
1FPPOOL	F4J18	1F4	1993/9/4	3/11/2011	6397	17.53	27830
1FPPOOL	F4J39	1F4	1995/2/26	3/11/2011	5857	16.05	29785
1FPPOOL	F4J24	1F4	1993/9/4	3/11/2011	6397	17.53	32169
1FPPOOL	F4J45	1F4	1995/2/26	3/11/2011	5857	16.05	25481
1FPPOOL	F4J30	1F4	1993/9/4	3/11/2011	6397	17.53	32132
1FPPOOL	F4J46	1F4	1995/2/26	3/11/2011	5857	16.05	30572
1FPPOOL	F4J51	1F4	1993/9/4	3/11/2011	6397	17.53	32513
1FPPOOL	F4J75	1F4	1993/9/4	3/11/2011	6397	17.53	30998

1FPPOOL	F4J35	1F4	1995/2/26	3/11/2011	5857	16.05	29786
1FPPOOL	F4J56	1F4	1993/9/4	3/11/2011	6397	17.53	27677
1FPPOOL	F4J63	1F4	1993/9/4	3/11/2011	6397	17.53	33103
1FPPOOL	F4J68	1F4	1993/9/4	3/11/2011	6397	17.53	32615
1FPPOOL	F4J69	1F4	1993/9/4	3/11/2011	6397	17.53	27961
1FPPOOL	F4J76	1F4	1993/9/4	3/11/2011	6397	17.53	32614
1FPPOOL	F4J78	1F4	1993/9/4	3/11/2011	6397	17.53	33883
1FPPOOL	F4J20	1F4	1993/9/4	3/11/2011	6397	17.53	27939
1FPPOOL	F4J3	1F4	1993/9/4	3/11/2011	6397	17.53	32162
1FPPOOL	F4J26	1F4	1993/9/4	3/11/2011	6397	17.53	26611
1FPPOOL	F4J19	1F4	1993/9/4	3/11/2011	6397	17.53	32849
1FPPOOL	F4J80	1F4	1993/9/4	3/11/2011	6397	17.53	28766
1FPPOOL	F4J79	1F4	1993/9/4	3/11/2011	6397	17.53	27717
1FPPOOL	F4J12	1F4	1993/9/4	3/11/2011	6397	17.53	32841
1FPPOOL	F4J14	1F4	1993/9/4	3/11/2011	6397	17.53	32146
1FPPOOL	F4J13	1F4	1993/9/4	3/11/2011	6397	17.53	26586
1FPPOOL	F4J40	1F4	1995/2/26	3/11/2011	5857	16.05	30527
1FPPOOL	F4J41	1F4	1995/2/26	3/11/2011	5857	16.05	25498
1FPPOOL	F4J25	1F4	1993/9/4	3/11/2011	6397	17.53	33060
1FPPOOL	F4J74	1F4	1993/9/4	3/11/2011	6397	17.53	32417
1FPPOOL	F4J34	1F4	1993/9/4	3/11/2011	6397	17.53	26539
1FPPOOL	F4J81	1F4	1993/9/4	3/11/2011	6397	17.53	31043
1FPPOOL	F4J62	1F4	1993/9/4	3/11/2011	6397	17.53	29387
1FPPOOL	F4J64	1F4	1993/9/4	3/11/2011	6397	17.53	28176
1FPPOOL	F4J77	1F4	1993/9/4	3/11/2011	6397	17.53	26382
1FPPOOL	F4J58	1F4	1993/9/4	3/11/2011	6397	17.53	26332
1FPPOOL	F4J82	1F4	1993/9/4	3/11/2011	6397	17.53	27990
1FPPOOL	F4J55	1F4	1993/9/4	3/11/2011	6397	17.53	27650
1FPPOOL	F4HN26	1F4	1992/2/22	3/11/2011	6957	19.06	32227
1FPPOOL	F4J71	1F4	1993/9/4	3/11/2011	6397	17.53	32425
1FPPOOL	F4J4	1F4	1993/9/4	3/11/2011	6397	17.53	27906
1FPPOOL	F4J84	1F4	1993/9/4	3/11/2011	6397	17.53	28373
1FPPOOL	F4HN32	1F4	1992/2/22	3/11/2011	6957	19.06	31181
1FPPOOL	F4J49	1F4	1995/2/26	3/11/2011	5857	16.05	25487
1FPPOOL	F4J70	1F4	1993/9/4	3/11/2011	6397	17.53	28396
1FPPOOL	F4J57	1F4	1993/9/4	3/11/2011	6397	17.53	33774
1FPPOOL	F4HN24	1F4	1992/2/22	3/11/2011	6957	19.06	32449
1FPPOOL	F4HN23	1F4	1992/2/22	3/11/2011	6957	19.06	32215
1FPPOOL	F4J83	1F4	1993/9/4	3/11/2011	6397	17.53	30809
1FPPOOL	F4J21	1F4	1993/9/4	3/11/2011	6397	17.53	33811
1FPPOOL	F4J42	1F4	1995/2/26	3/11/2011	5857	16.05	30601
1FPPOOL	F4J36	1F4	1995/2/26	3/11/2011	5857	16.05	30549
1FPPOOL	F4J43	1F4	1995/2/26	3/11/2011	5857	16.05	29769
1FPPOOL	F4J27	1F4	1993/9/4	3/11/2011	6397	17.53	33834
1FPPOOL	F4J48	1F4	1995/2/26	3/11/2011	5857	16.05	30525
1FPPOOL	F4J28	1F4	1993/9/4	3/11/2011	6397	17.53	33056
1FPPOOL	F4J60	1F4	1993/9/4	3/11/2011	6397	17.53	27933
1FPPOOL	F4J66	1F4	1993/9/4	3/11/2011	6397	17.53	33687
1FPPOOL	F4J1	1F4	1993/9/4	3/11/2011	6397	17.53	26598
1FPPOOL	F4J50	1F4	1995/2/26	3/11/2011	5857	16.05	30551
1FPPOOL	F4J5	1F4	1993/9/4	3/11/2011	6397	17.53	26540
1FPPOOL	F4J32	1F4	1993/9/4	3/11/2011	6397	17.53	32837
1FPPOOL	F4J53	1F4	1993/9/4	3/11/2011	6397	17.53	28467

1FPPOOL	F4J85	1F4	1993/9/4	3/11/2011	6397	17.53	27695
1FPPOOL	F4J16	1F4	1993/9/4	3/11/2011	6397	17.53	33029
1FPPOOL	F4J22	1F4	1993/9/4	3/11/2011	6397	17.53	26533
1FPPOOL	F4J31	1F4	1993/9/4	3/11/2011	6397	17.53	26576
1FPPOOL	F4HN25	1F4	1992/2/22	3/11/2011	6957	19.06	32429
1FPPOOL	F4J15	1F4	1993/9/4	3/11/2011	6397	17.53	27931
1FPPOOL	F4J37	1F4	1995/2/26	3/11/2011	5857	16.05	25509
1FPPOOL	F4J44	1F4	1995/2/26	3/11/2011	5857	16.05	30564
1FPPOOL	F4J105	1F4	1993/9/4	3/11/2011	6397	17.53	32035
1FPPOOL	F4J9	1F4	1993/9/4	3/11/2011	6397	17.53	27826
1FPPOOL	F4J38	1F4	1995/2/26	3/11/2011	5857	16.05	30610
1FPPOOL	F4J59	1F4	1993/9/4	3/11/2011	6397	17.53	32025
1FPPOOL	F4J61	1F4	1993/9/4	3/11/2011	6397	17.53	30952
1FPPOOL	F4J65	1F4	1993/9/4	3/11/2011	6397	17.53	33840
1FPPOOL	F4J7	1F4	1993/9/4	3/11/2011	6397	17.53	27939
1FPPOOL	F4J8	1F4	1993/9/4	3/11/2011	6397	17.53	32839
1FPPOOL	F4J10	1F4	1993/9/4	3/11/2011	6397	17.53	26529
1FPPOOL	F4J33	1F4	1993/9/4	3/11/2011	6397	17.53	27909
1FPPOOL	F4JN21	1F4	1992/2/22	3/11/2011	6957	19.06	25261
1FPPOOL	F4JN20	1F4	1993/9/4	3/11/2011	6397	17.53	29599
1FPPOOL	F4JN30	1F4	1992/2/22	3/11/2011	6957	19.06	25085
1FPPOOL	F4J93	1F4	1993/9/4	3/11/2011	6397	17.53	32426
1FPPOOL	F4J95	1F4	1993/9/4	3/11/2011	6397	17.53	27959
1FPPOOL	F4J99	1F4	1993/9/4	3/11/2011	6397	17.53	33846
1FPPOOL	F4JN19	1F4	1993/9/4	3/11/2011	6397	17.53	27989
1FPPOOL	F4JN22	1F4	1992/2/22	3/11/2011	6957	19.06	25404
1FPPOOL	F4J89	1F4	1993/9/4	3/11/2011	6397	17.53	29456
1FPPOOL	F4J116	1F4	1993/9/4	3/11/2011	6397	17.53	33668
1FPPOOL	F4J101	1F4	1993/9/4	3/11/2011	6397	17.53	33139
1FPPOOL	F4J122	1F4	1993/9/4	3/11/2011	6397	17.53	28331
1FPPOOL	F4J123	1F4	1993/9/4	3/11/2011	6397	17.53	30792
1FPPOOL	F4J108	1F4	1993/9/4	3/11/2011	6397	17.53	27652
1FPPOOL	F4J128	1F4	1993/9/4	3/11/2011	6397	17.53	33876
1FPPOOL	F4J110	1F4	1993/9/4	3/11/2011	6397	17.53	30981
1FPPOOL	F4J117	1F4	1993/9/4	3/11/2011	6397	17.53	29383
1FPPOOL	F4JN4	1F4	1992/2/22	3/11/2011	6957	19.06	25402
1FPPOOL	F4JN5	1F4	1992/2/22	3/11/2011	6957	19.06	25285
1FPPOOL	F4JN11	1F4	1993/9/4	3/11/2011	6397	17.53	28085
1FPPOOL	F4K7	1F4	1995/2/26	3/11/2011	5857	16.05	31390
1FPPOOL	F4J107	1F4	1993/9/4	3/11/2011	6397	17.53	33749
1FPPOOL	F4J129	1F4	1993/9/4	3/11/2011	6397	17.53	26373
1FPPOOL	F4J111	1F4	1993/9/4	3/11/2011	6397	17.53	28488
1FPPOOL	F4J131	1F4	1993/9/4	3/11/2011	6397	17.53	30999
1FPPOOL	F4JN31	1F4	1993/9/4	3/11/2011	6397	17.53	29617
1FPPOOL	F4JN12	1F4	1993/9/4	3/11/2011	6397	17.53	29617
1FPPOOL	F4K81	1F4	1995/2/26	3/11/2011	5857	16.05	28678
1FPPOOL	F4JN18	1F4	1993/9/4	3/11/2011	6397	17.53	28796
1FPPOOL	F4K10	1F4	1995/2/26	3/11/2011	5857	16.05	32312
1FPPOOL	F4J134	1F4	1993/9/4	3/11/2011	6397	17.53	27952
1FPPOOL	F4JN23	1F4	1993/9/4	3/11/2011	6397	17.53	28772
1FPPOOL	F4J97	1F4	1993/9/4	3/11/2011	6397	17.53	28747
1FPPOOL	F4J96	1F4	1993/9/4	3/11/2011	6397	17.53	32601
1FPPOOL	F4J103	1F4	1993/9/4	3/11/2011	6397	17.53	30962

1FPPOOL	F4JN14	1F4	1993/9/4	3/11/2011	6397	17.53	28777
1FPPOOL	F4K3	1F4	1995/2/26	3/11/2011	5857	16.05	31632
1FPPOOL	F4K13	1F4	1995/2/26	3/11/2011	5857	16.05	29180
1FPPOOL	F4J119	1F4	1993/9/4	3/11/2011	6397	17.53	28460
1FPPOOL	F4J125	1F4	1993/9/4	3/11/2011	6397	17.53	31039
1FPPOOL	F4J118	1F4	1993/9/4	3/11/2011	6397	17.53	33776
1FPPOOL	F4K4	1F4	1995/2/26	3/11/2011	5857	16.05	29242
1FPPOOL	F4J102	1F4	1993/9/4	3/11/2011	6397	17.53	29404
1FPPOOL	F4K14	1F4	1995/2/26	3/11/2011	5857	16.05	29607
1FPPOOL	F4K8	1F4	1995/2/26	3/11/2011	5857	16.05	30809
1FPPOOL	F4J88	1F4	1993/9/4	3/11/2011	6397	17.53	33835
1FPPOOL	F4J112	1F4	1993/9/4	3/11/2011	6397	17.53	30781
1FPPOOL	F4JN6	1F4	1993/9/4	3/11/2011	6397	17.53	29639
1FPPOOL	F4J124	1F4	1993/9/4	3/11/2011	6397	17.53	27976
1FPPOOL	F4K15	1F4	1995/2/26	3/11/2011	5857	16.05	29297
1FPPOOL	F4K9	1F4	1995/2/26	3/11/2011	5857	16.05	30486
1FPPOOL	F4J133	1F4	1993/9/4	3/11/2011	6397	17.53	33148
1FPPOOL	F4K16	1F4	1995/2/26	3/11/2011	5857	16.05	32705
1FPPOOL	F4JN7	1F4	1993/9/4	3/11/2011	6397	17.53	28023
1FPPOOL	F4JN33	1F4	1992/2/22	3/11/2011	6957	19.06	25396
1FPPOOL	F4JN13	1F4	1992/2/22	3/11/2011	6957	19.06	25092
1FPPOOL	F4K11	1F4	1995/2/26	3/11/2011	5857	16.05	30412
1FPPOOL	F4JN15	1F4	1993/9/4	3/11/2011	6397	17.53	27986
1FPPOOL	F4K12	1F4	1995/2/26	3/11/2011	5857	16.05	28964
1FPPOOL	F4K17	1F4	1995/2/26	3/11/2011	5857	16.05	29937
1FPPOOL	F4J94	1F4	1993/9/4	3/11/2011	6397	17.53	28377
1FPPOOL	F4J104	1F4	1993/9/4	3/11/2011	6397	17.53	27942
1FPPOOL	F4K19	1F4	1995/2/26	3/11/2011	5857	16.05	31642
1FPPOOL	F4J100	1F4	1993/9/4	3/11/2011	6397	17.53	28199
1FPPOOL	F4JN26	1F4	1993/9/4	3/11/2011	6397	17.53	28168
1FPPOOL	F4JN24	1F4	1992/2/22	3/11/2011	6957	19.06	25086
1FPPOOL	F4J87	1F4	1993/9/4	3/11/2011	6397	17.53	28521
1FPPOOL	F4J120	1F4	1993/9/4	3/11/2011	6397	17.53	32542
1FPPOOL	F4K5	1F4	1996/4/21	3/11/2011	5437	14.90	29213
1FPPOOL	F4J90	1F4	1993/9/4	3/11/2011	6397	17.53	33733
1FPPOOL	F4J114	1F4	1993/9/4	3/11/2011	6397	17.53	28166
1FPPOOL	F4K18	1F4	1995/2/26	3/11/2011	5857	16.05	28411
1FPPOOL	F4JN8	1F4	1993/9/4	3/11/2011	6397	17.53	28817
1FPPOOL	F4J126	1F4	1993/9/4	3/11/2011	6397	17.53	28746
1FPPOOL	F4J91	1F4	1993/9/4	3/11/2011	6397	17.53	32091
1FPPOOL	F4J113	1F4	1993/9/4	3/11/2011	6397	17.53	32499
1FPPOOL	F4JN1	1F4	1993/9/4	3/11/2011	6397	17.53	28177
1FPPOOL	F4JN32	1F4	1993/9/4	3/11/2011	6397	17.53	28079
1FPPOOL	F4JN25	1F4	1993/9/4	3/11/2011	6397	17.53	28170
1FPPOOL	F4JN28	1F4	1993/9/4	3/11/2011	6397	17.53	28009
1FPPOOL	F4JN34	1F4	1993/9/4	3/11/2011	6397	17.53	28809
1FPPOOL	F4K1	1F4	1995/2/26	3/11/2011	5857	16.05	29935
1FPPOOL	F4K6	1F4	1995/2/26	3/11/2011	5857	16.05	25890
1FPPOOL	F4J92	1F4	1993/9/4	3/11/2011	6397	17.53	28231
1FPPOOL	F4J115	1F4	1993/9/4	3/11/2011	6397	17.53	32022
1FPPOOL	F4JN16	1F4	1992/2/22	3/11/2011	6957	19.06	25258
1FPPOOL	F4JN17	1F4	1993/9/4	3/11/2011	6397	17.53	28161
1FPPOOL	F4J98	1F4	1993/9/4	3/11/2011	6397	17.53	33701

1FPPOOL	F4J86	1F4	1993/9/4	3/11/2011	6397	17.53	32560
1FPPOOL	F4JN2	1F4	1992/2/22	3/11/2011	6957	19.06	25101
1FPPOOL	F4J121	1F4	1993/9/4	3/11/2011	6397	17.53	27675
1FPPOOL	F4JN3	1F4	1993/9/4	3/11/2011	6397	17.53	28785
1FPPOOL	F4JN9	1F4	1993/9/4	3/11/2011	6397	17.53	28810
1FPPOOL	F4JN10	1F4	1992/2/22	3/11/2011	6957	19.06	25392
1FPPOOL	F4K40	1F4	1995/2/26	3/11/2011	5857	16.05	30833
1FPPOOL	F4J106	1F4	1993/9/4	3/11/2011	6397	17.53	26332
1FPPOOL	F4J109	1F4	1993/9/4	3/11/2011	6397	17.53	27643
1FPPOOL	F4JN27	1F4	1992/2/22	3/11/2011	6957	19.06	25271
1FPPOOL	F4JN29	1F4	1993/9/4	3/11/2011	6397	17.53	28770
1FPPOOL	F4J127	1F4	1993/9/4	3/11/2011	6397	17.53	27701
1FPPOOL	F4K2	1F4	1995/2/26	3/11/2011	5857	16.05	28392
1FPPOOL	F4J130	1F4	1993/9/4	3/11/2011	6397	17.53	32605
1FPPOOL	F4J132	1F4	1993/9/4	3/11/2011	6397	17.53	32422
1FPPOOL	F4K88	1F4	1995/2/26	3/11/2011	5857	16.05	28643
1FPPOOL	F4K28	1F4	1995/2/26	3/11/2011	5857	16.05	28995
1FPPOOL	F4K30	1F4	1995/2/26	3/11/2011	5857	16.05	29629
1FPPOOL	F4K34	1F4	1995/2/26	3/11/2011	5857	16.05	28442
1FPPOOL	F4K43	1F4	1995/2/26	3/11/2011	5857	16.05	30464
1FPPOOL	F4K64	1F4	1995/2/26	3/11/2011	5857	16.05	32742
1FPPOOL	F4K86	1F4	1995/2/26	3/11/2011	5857	16.05	32844
1FPPOOL	F4K23	1F4	1995/2/26	3/11/2011	5857	16.05	31451
1FPPOOL	F4K24	1F4	1995/2/26	3/11/2011	5857	16.05	30843
1FPPOOL	F4K52	1F4	1995/2/26	3/11/2011	5857	16.05	29258
1FPPOOL	F4K58	1F4	1995/2/26	3/11/2011	5857	16.05	32368
1FPPOOL	F4K107	1F4	1995/2/26	3/11/2011	5857	16.05	31499
1FPPOOL	F4K45	1F4	1995/2/26	3/11/2011	5857	16.05	29201
1FPPOOL	F4K46	1F4	1995/2/26	3/11/2011	5857	16.05	29635
1FPPOOL	F4K73	1F4	1995/2/26	3/11/2011	5857	16.05	31428
1FPPOOL	F4K79	1F4	1995/2/26	3/11/2011	5857	16.05	32858
1FPPOOL	F4K42	1F4	1995/2/26	3/11/2011	5857	16.05	32358
1FPPOOL	F4K95	1F4	1995/2/26	3/11/2011	5857	16.05	29142
1FPPOOL	F4K97	1F4	1995/2/26	3/11/2011	5857	16.05	33151
1FPPOOL	F4K80	1F4	1995/2/26	3/11/2011	5857	16.05	33155
1FPPOOL	F4K101	1F4	1995/2/26	3/11/2011	5857	16.05	32647
1FPPOOL	F4K85	1F4	1995/2/26	3/11/2011	5857	16.05	33201
1FPPOOL	F4K110	1F4	1995/2/26	3/11/2011	5857	16.05	34222
1FPPOOL	F4K69	1F4	1995/2/26	3/11/2011	5857	16.05	32789
1FPPOOL	F4K90	1F4	1995/2/26	3/11/2011	5857	16.05	31487
1FPPOOL	F4K32	1F4	1995/2/26	3/11/2011	5857	16.05	32747
1FPPOOL	F4K31	1F4	1995/2/26	3/11/2011	5857	16.05	29343
1FPPOOL	F4K38	1F4	1995/2/26	3/11/2011	5857	16.05	25909
1FPPOOL	F4K103	1F4	1995/2/26	3/11/2011	5857	16.05	32791
1FPPOOL	F4K113	1F4	1995/2/26	3/11/2011	5857	16.05	32937
1FPPOOL	F4K54	1F4	1995/2/26	3/11/2011	5857	16.05	25930
1FPPOOL	F4K22	1F4	1995/2/26	3/11/2011	5857	16.05	25925
1FPPOOL	F4K104	1F4	1995/2/26	3/11/2011	5857	16.05	27193
1FPPOOL	F4K37	1F4	1996/4/21	3/11/2011	5437	14.90	29234
1FPPOOL	F4K114	1F4	1995/2/26	3/11/2011	5857	16.05	33190
1FPPOOL	F4K108	1F4	1995/2/26	3/11/2011	5857	16.05	26729
1FPPOOL	F4K53	1F4	1996/4/21	3/11/2011	5437	14.90	29223
1FPPOOL	F4K74	1F4	1995/2/26	3/11/2011	5857	16.05	26706

1FPPOOL	F4K75	1F4	1995/2/26	3/11/2011	5857	16.05	30899
1FPPOOL	F4K115	1F4	1995/2/26	3/11/2011	5857	16.05	28695
1FPPOOL	F4K25	1F4	1995/2/26	3/11/2011	5857	16.05	30530
1FPPOOL	F4K60	1F4	1995/2/26	3/11/2011	5857	16.05	29015
1FPPOOL	F4K109	1F4	1995/2/26	3/11/2011	5857	16.05	30922
1FPPOOL	F4K116	1F4	1995/2/26	3/11/2011	5857	16.05	29852
1FPPOOL	F4K99	1F4	1995/2/26	3/11/2011	5857	16.05	29784
1FPPOOL	F4K111	1F4	1995/2/26	3/11/2011	5857	16.05	34887
1FPPOOL	F4K83	1F4	1995/2/26	3/11/2011	5857	16.05	28408
1FPPOOL	F4K112	1F4	1995/2/26	3/11/2011	5857	16.05	29106
1FPPOOL	F4K47	1F4	1995/2/26	3/11/2011	5857	16.05	29316
1FPPOOL	F4K117	1F4	1995/2/26	3/11/2011	5857	16.05	28448
1FPPOOL	F4K89	1F4	1995/2/26	3/11/2011	5857	16.05	26880
1FPPOOL	F4K35	1F4	1995/2/26	3/11/2011	5857	16.05	31692
1FPPOOL	F4K93	1F4	1995/2/26	3/11/2011	5857	16.05	34289
1FPPOOL	F4K26	1F4	1995/2/26	3/11/2011	5857	16.05	32362
1FPPOOL	F4K49	1F4	1995/2/26	3/11/2011	5857	16.05	29942
1FPPOOL	F4K29	1F4	1995/2/26	3/11/2011	5857	16.05	29199
1FPPOOL	F4K55	1F4	1995/2/26	3/11/2011	5857	16.05	31447
1FPPOOL	F4K105	1F4	1995/2/26	3/11/2011	5857	16.05	28584
1FPPOOL	F4K91	1F4	1995/2/26	3/11/2011	5857	16.05	26756
1FPPOOL	F4K118	1F4	1995/2/26	3/11/2011	5857	16.05	32673
1FPPOOL	F4K61	1F4	1995/2/26	3/11/2011	5857	16.05	29202
1FPPOOL	F4K59	1F4	1995/2/26	3/11/2011	5857	16.05	30460
1FPPOOL	F4K48	1F4	1995/2/26	3/11/2011	5857	16.05	32727
1FPPOOL	F4K70	1F4	1995/2/26	3/11/2011	5857	16.05	27189
1FPPOOL	F4K94	1F4	1995/2/26	3/11/2011	5857	16.05	34827
1FPPOOL	F4K98	1F4	1995/2/26	3/11/2011	5857	16.05	28669
1FPPOOL	F4K82	1F4	1995/2/26	3/11/2011	5857	16.05	29801
1FPPOOL	F4K63	1F4	1995/2/26	3/11/2011	5857	16.05	29311
1FPPOOL	F4K92	1F4	1993/9/4	3/11/2011	6397	17.53	25249
1FPPOOL	F4K76	1F4	1995/2/26	3/11/2011	5857	16.05	34236
1FPPOOL	F4K100	1F4	1995/2/26	3/11/2011	5857	16.05	28408
1FPPOOL	F4K119	1F4	1995/2/26	3/11/2011	5857	16.05	33248
1FPPOOL	F4K36	1F4	1995/2/26	3/11/2011	5857	16.05	29277
1FPPOOL	F4K84	1F4	1995/2/26	3/11/2011	5857	16.05	32627
1FPPOOL	F4K106	1F4	1995/2/26	3/11/2011	5857	16.05	26893
1FPPOOL	F4K87	1F4	1995/2/26	3/11/2011	5857	16.05	27196
1FPPOOL	F4K27	1F4	1995/2/26	3/11/2011	5857	16.05	30472
1FPPOOL	F4K20	1F4	1995/2/26	3/11/2011	5857	16.05	29264
1FPPOOL	F4K56	1F4	1995/2/26	3/11/2011	5857	16.05	30843
1FPPOOL	F4K39	1F4	1995/2/26	3/11/2011	5857	16.05	31445
1FPPOOL	F4K57	1F4	1995/2/26	3/11/2011	5857	16.05	30537
1FPPOOL	F4K50	1F4	1995/2/26	3/11/2011	5857	16.05	28430
1FPPOOL	F4K33	1F4	1995/2/26	3/11/2011	5857	16.05	29965
1FPPOOL	F4K21	1F4	1996/4/21	3/11/2011	5437	14.90	29217
1FPPOOL	F4K51	1F4	1995/2/26	3/11/2011	5857	16.05	31670
1FPPOOL	F4K71	1F4	1995/2/26	3/11/2011	5857	16.05	28596
1FPPOOL	F4K72	1F4	1995/2/26	3/11/2011	5857	16.05	26846
1FPPOOL	F4K77	1F4	1995/2/26	3/11/2011	5857	16.05	34828
1FPPOOL	F4K78	1F4	1995/2/26	3/11/2011	5857	16.05	29123
1FPPOOL	F4K140	1F4	1996/4/21	3/11/2011	5437	14.90	29749
1FPPOOL	F4K41	1F4	1995/2/26	3/11/2011	5857	16.05	30545

1FPPOOL	F4K44	1F4	1995/2/26	3/11/2011	5857	16.05	28995
1FPPOOL	F4K96	1F4	1995/2/26	3/11/2011	5857	16.05	32899
1FPPOOL	F4K62	1F4	1995/2/26	3/11/2011	5857	16.05	29624
1FPPOOL	F4K67	1F4	1995/2/26	3/11/2011	5857	16.05	32643
1FPPOOL	F4KN13	1F4	1995/2/26	3/11/2011	5857	16.05	31927
1FPPOOL	F4KN12	1F4	1995/2/26	3/11/2011	5857	16.05	29466
1FPPOOL	F4K129	1F4	1995/2/26	3/11/2011	5857	16.05	29104
1FPPOOL	F4K136	1F4	1996/4/21	3/11/2011	5437	14.90	29725
1FPPOOL	F4KN33	1F4	1993/9/4	3/11/2011	6397	17.53	25822
1FPPOOL	F4KN32	1F4	1995/2/26	3/11/2011	5857	16.05	30943
1FPPOOL	F4K123	1F4	1995/2/26	3/11/2011	5857	16.05	26859
1FPPOOL	F4K124	1F4	1995/2/26	3/11/2011	5857	16.05	31443
1FPPOOL	F4K150	1F4	1997/9/18	3/11/2011	4922	13.48	33541
1FPPOOL	F4K155	1F4	1996/4/21	3/11/2011	5437	14.90	29693
1FPPOOL	F4K142	1F4	1997/9/18	3/11/2011	4922	13.48	32330
1FPPOOL	F4KN10	1F4	1993/9/4	3/11/2011	6397	17.53	25249
1FPPOOL	F4KN11	1F4	1993/9/4	3/11/2011	6397	17.53	25836
1FPPOOL	F4K169	1F4	1997/9/18	3/11/2011	4922	13.48	33513
1FPPOOL	F4KN3	1F4	1995/2/26	3/11/2011	5857	16.05	30311
1FPPOOL	F4K141	1F4	1997/9/18	3/11/2011	4922	13.48	33529
1FPPOOL	F4K161	1F4	1997/9/18	3/11/2011	4922	13.48	32336
1FPPOOL	F4K165	1F4	1997/9/18	3/11/2011	4922	13.48	34674
1FPPOOL	F4KN22	1F4	1993/9/4	3/11/2011	6397	17.53	25823
1FPPOOL	F4KN4	1F4	1995/2/26	3/11/2011	5857	16.05	32148
1FPPOOL	F4LN5	1F4	1996/4/21	3/11/2011	5437	14.90	31416
1FPPOOL	F4KN9	1F4	1995/2/26	3/11/2011	5857	16.05	31073
1FPPOOL	F4KN35	1F4	1995/2/26	3/11/2011	5857	16.05	31933
1FPPOOL	F4K132	1F4	1995/2/26	3/11/2011	5857	16.05	28628
1FPPOOL	F4K131	1F4	1995/2/26	3/11/2011	5857	16.05	33140
1FPPOOL	F4KN6	1F4	1995/2/26	3/11/2011	5857	16.05	30458
1FPPOOL	F4KN28	1F4	1995/2/26	3/11/2011	5857	16.05	30453
1FPPOOL	F4KN36	1F4	1995/2/26	3/11/2011	5857	16.05	30292
1FPPOOL	F4KN39	1F4	1995/2/26	3/11/2011	5857	16.05	30439
1FPPOOL	F4K152	1F4	1996/4/21	3/11/2011	5437	14.90	32291
1FPPOOL	F4K137	1F4	1997/9/18	3/11/2011	4922	13.48	34618
1FPPOOL	F4K122	1F4	1995/2/26	3/11/2011	5857	16.05	28609
1FPPOOL	F4K138	1F4	1996/4/21	3/11/2011	5437	14.90	31395
1FPPOOL	F4K158	1F4	1996/4/21	3/11/2011	5437	14.90	31943
1FPPOOL	F4K151	1F4	1997/9/18	3/11/2011	4922	13.48	32362
1FPPOOL	F4KN29	1F4	1996/4/21	3/11/2011	5437	14.90	29323
1FPPOOL	F4KN40	1F4	1996/4/21	3/11/2011	5437	14.90	29308
1FPPOOL	F4KN15	1F4	1995/2/26	3/11/2011	5857	16.05	32157
1FPPOOL	F4KN34	1F4	1995/2/26	3/11/2011	5857	16.05	29432
1FPPOOL	F4K145	1F4	1996/4/21	3/11/2011	5437	14.90	29732
1FPPOOL	F4K146	1F4	1997/9/18	3/11/2011	4922	13.48	34657
1FPPOOL	F4K170	1F4	1997/9/18	3/11/2011	4922	13.48	32296
1FPPOOL	F4K171	1F4	1996/4/21	3/11/2011	5437	14.90	32273
1FPPOOL	F4KN41	1F4	1995/2/26	3/11/2011	5857	16.05	29379
1FPPOOL	F4K125	1F4	1995/2/26	3/11/2011	5857	16.05	26727
1FPPOOL	F4K157	1F4	1996/4/21	3/11/2011	5437	14.90	31373
1FPPOOL	F4KN37	1F4	1995/2/26	3/11/2011	5857	16.05	32157
1FPPOOL	F4KN21	1F4	1993/9/4	3/11/2011	6397	17.53	25247
1FPPOOL	F4KN24	1F4	1995/2/26	3/11/2011	5857	16.05	31916

1FPPOOL	F4KN5	1F4	1993/9/4	3/11/2011	6397	17.53	25672
1FPPOOL	F4KN7	1F4	1996/4/21	3/11/2011	5437	14.90	29329
1FPPOOL	F4KN38	1F4	1993/9/4	3/11/2011	6397	17.53	25655
1FPPOOL	F4KN17	1F4	1995/2/26	3/11/2011	5857	16.05	30438
1FPPOOL	F4KN42	1F4	1995/2/26	3/11/2011	5857	16.05	31079
1FPPOOL	F4KN14	1F4	1995/2/26	3/11/2011	5857	16.05	30313
1FPPOOL	F4K130	1F4	1995/2/26	3/11/2011	5857	16.05	32879
1FPPOOL	F4KN16	1F4	1993/9/4	3/11/2011	6397	17.53	25662
1FPPOOL	F4K153	1F4	1996/4/21	3/11/2011	5437	14.90	32034
1FPPOOL	F4KN30	1F4	1995/2/26	3/11/2011	5857	16.05	29392
1FPPOOL	F4K126	1F4	1993/9/4	3/11/2011	6397	17.53	25229
1FPPOOL	F4KN43	1F4	1995/2/26	3/11/2011	5857	16.05	30954
1FPPOOL	F4K156	1F4	1997/9/18	3/11/2011	4922	13.48	34592
1FPPOOL	F4K167	1F4	1996/4/21	3/11/2011	5437	14.90	31964
1FPPOOL	F4KN44	1F4	1993/9/4	3/11/2011	6397	17.53	25810
1FPPOOL	F4KN1	1F4	1995/2/26	3/11/2011	5857	16.05	29459
1FPPOOL	F4KN23	1F4	1995/2/26	3/11/2011	5857	16.05	29440
1FPPOOL	F4K159	1F4	1996/4/21	3/11/2011	5437	14.90	29714
1FPPOOL	F4K160	1F4	1997/9/18	3/11/2011	4922	13.48	33494
1FPPOOL	F4K172	1F4	1996/4/21	3/11/2011	5437	14.90	31955
1FPPOOL	F4KN19	1F4	1995/2/26	3/11/2011	5857	16.05	29377
1FPPOOL	F4K128	1F4	1995/2/26	3/11/2011	5857	16.05	34842
1FPPOOL	F4KN25	1F4	1995/2/26	3/11/2011	5857	16.05	30308
1FPPOOL	F4KN26	1F4	1995/2/26	3/11/2011	5857	16.05	32172
1FPPOOL	F4KN31	1F4	1995/2/26	3/11/2011	5857	16.05	31082
1FPPOOL	F4K139	1F4	1996/4/21	3/11/2011	5437	14.90	31978
1FPPOOL	F4K127	1F4	1995/2/26	3/11/2011	5857	16.05	34254
1FPPOOL	F4K120	1F4	1995/2/26	3/11/2011	5857	16.05	32831
1FPPOOL	F4K149	1F4	1996/4/21	3/11/2011	5437	14.90	29784
1FPPOOL	F4K134	1F4	1995/2/26	3/11/2011	5857	16.05	28437
1FPPOOL	F4KN8	1F4	1995/2/26	3/11/2011	5857	16.05	29383
1FPPOOL	F4K148	1F4	1996/4/21	3/11/2011	5437	14.90	31992
1FPPOOL	F4K133	1F4	1995/2/26	3/11/2011	5857	16.05	29786
1FPPOOL	F4K121	1F4	1995/2/26	3/11/2011	5857	16.05	27215
1FPPOOL	F4KN2	1F4	1995/2/26	3/11/2011	5857	16.05	31936
1FPPOOL	F4L17	1F4	1996/4/21	3/11/2011	5437	14.90	31450
1FPPOOL	F4K143	1F4	1996/4/21	3/11/2011	5437	14.90	32290
1FPPOOL	F4KN18	1F4	1996/4/21	3/11/2011	5437	14.90	29313
1FPPOOL	F4KN20	1F4	1995/2/26	3/11/2011	5857	16.05	31068
1FPPOOL	F4KN27	1F4	1993/9/4	3/11/2011	6397	17.53	25675
1FPPOOL	F4K162	1F4	1996/4/21	3/11/2011	5437	14.90	32342
1FPPOOL	F4K168	1F4	1996/4/21	3/11/2011	5437	14.90	29743
1FPPOOL	F4K164	1F4	1996/4/21	3/11/2011	5437	14.90	29748
1FPPOOL	F4LN12	1F4	1996/4/21	3/11/2011	5437	14.90	32497
1FPPOOL	F4LN11	1F4	1996/4/21	3/11/2011	5437	14.90	29119
1FPPOOL	F4LN9	1F4	1996/4/21	3/11/2011	5437	14.90	28200
1FPPOOL	F4LN10	1F4	1996/4/21	3/11/2011	5437	14.90	29141
1FPPOOL	F4LN30	1F4	1996/4/21	3/11/2011	5437	14.90	32985
1FPPOOL	F4LN29	1F4	1996/4/21	3/11/2011	5437	14.90	31187
1FPPOOL	F4L28	1F4	1996/4/21	3/11/2011	5437	14.90	31305
1FPPOOL	F4L34	1F4	1996/4/21	3/11/2011	5437	14.90	32032
1FPPOOL	F4L22	1F4	1997/9/18	3/11/2011	4922	13.48	33137
1FPPOOL	F4L40	1F4	1996/4/21	3/11/2011	5437	14.90	32233

1FPPOOL	F4L49	1F4	1996/4/21	3/11/2011	5437	14.90	32227
1FPPOOL	F4LN18	1F4	1996/4/21	3/11/2011	5437	14.90	29114
1FPPOOL	F4LN3	1F4	1996/4/21	3/11/2011	5437	14.90	30401
1FPPOOL	F4LN32	1F4	1996/4/21	3/11/2011	5437	14.90	28206
1FPPOOL	F4L45	1F4	1996/4/21	3/11/2011	5437	14.90	31567
1FPPOOL	F4LN13	1F4	1997/9/18	3/11/2011	4922	13.48	34615
1FPPOOL	F4LN20	1F4	1996/4/21	3/11/2011	5437	14.90	31905
1FPPOOL	F4L15	1F4	1996/4/21	3/11/2011	5437	14.90	31942
1FPPOOL	F4LN25	1F4	1996/4/21	3/11/2011	5437	14.90	32720
1FPPOOL	F4LN26	1F4	1996/4/21	3/11/2011	5437	14.90	30364
1FPPOOL	F4LN33	1F4	1996/4/21	3/11/2011	5437	14.90	29147
1FPPOOL	F4LN40	1F4	1996/4/21	3/11/2011	5437	14.90	29126
1FPPOOL	F4L30	1F4	1996/4/21	3/11/2011	5437	14.90	32235
1FPPOOL	F4LN35	1F4	1996/4/21	3/11/2011	5437	14.90	32519
1FPPOOL	F4L23	1F4	1996/4/21	3/11/2011	5437	14.90	32050
1FPPOOL	F4L24	1F4	1996/4/21	3/11/2011	5437	14.90	28564
1FPPOOL	F4L50	1F4	1997/9/18	3/11/2011	4922	13.48	33113
1FPPOOL	F4L51	1F4	1996/4/21	3/11/2011	5437	14.90	32013
1FPPOOL	F4LN31	1F4	1997/9/18	3/11/2011	4922	13.48	38683
1FPPOOL	F4LN34	1F4	1996/4/21	3/11/2011	5437	14.90	29111
1FPPOOL	F4L36	1F4	1996/4/21	3/11/2011	5437	14.90	31554
1FPPOOL	F4LN4	1F4	1996/4/21	3/11/2011	5437	14.90	30328
1FPPOOL	F4LN39	1F4	1996/4/21	3/11/2011	5437	14.90	32513
1FPPOOL	F4LN37	1F4	1996/4/21	3/11/2011	5437	14.90	32888
1FPPOOL	F4LN22	1F4	1997/9/18	3/11/2011	4922	13.48	38435
1FPPOOL	F4LN16	1F4	1996/4/21	3/11/2011	5437	14.90	32538
1FPPOOL	F4LN14	1F4	1996/4/21	3/11/2011	5437	14.90	32867
1FPPOOL	F4L29	1F4	1996/4/21	3/11/2011	5437	14.90	30215
1FPPOOL	F4L31	1F4	1997/9/18	3/11/2011	4922	13.48	33156
1FPPOOL	F4LN7	1F4	1996/4/21	3/11/2011	5437	14.90	32999
1FPPOOL	F4LN27	1F4	1996/4/21	3/11/2011	5437	14.90	30312
1FPPOOL	F4LN36	1F4	1997/9/18	3/11/2011	4922	13.48	34630
1FPPOOL	F4LN38	1F4	1996/4/21	3/11/2011	5437	14.90	29933
1FPPOOL	F4L52	1F4	1996/4/21	3/11/2011	5437	14.90	28560
1FPPOOL	F4L37	1F4	1996/4/21	3/11/2011	5437	14.90	32275
1FPPOOL	F4LN69	1F4	1997/9/18	3/11/2011	4922	13.48	37318
1FPPOOL	F4L46	1F4	1996/4/21	3/11/2011	5437	14.90	32279
1FPPOOL	F4LN17	1F4	1996/4/21	3/11/2011	5437	14.90	29119
1FPPOOL	F4LN21	1F4	1996/4/21	3/11/2011	5437	14.90	28112
1FPPOOL	F4LN23	1F4	1997/9/18	3/11/2011	4922	13.48	37346
1FPPOOL	F4LN6	1F4	1996/4/21	3/11/2011	5437	14.90	31214
1FPPOOL	F4L39	1F4	1996/4/21	3/11/2011	5437	14.90	30215
1FPPOOL	F4LN15	1F4	1996/4/21	3/11/2011	5437	14.90	29887
1FPPOOL	F4LN41	1F4	1996/4/21	3/11/2011	5437	14.90	29089
1FPPOOL	F4L42	1F4	1996/4/21	3/11/2011	5437	14.90	32064
1FPPOOL	F4L27	1F4	1996/4/21	3/11/2011	5437	14.90	32265
1FPPOOL	F4L32	1F4	1996/4/21	3/11/2011	5437	14.90	32052
1FPPOOL	F4L33	1F4	1996/4/21	3/11/2011	5437	14.90	28575
1FPPOOL	F4LN8	1F4	1997/9/18	3/11/2011	4922	13.48	38723
1FPPOOL	F4L26	1F4	1996/4/21	3/11/2011	5437	14.90	31561
1FPPOOL	F4L47	1F4	1996/4/21	3/11/2011	5437	14.90	31306
1FPPOOL	F4L48	1F4	1996/4/21	3/11/2011	5437	14.90	30169
1FPPOOL	F4LN1	1F4	1996/4/21	3/11/2011	5437	14.90	31402

1FPPOOL	F4LN2	1F4	1996/4/21	3/11/2011	5437	14.90	32722
1FPPOOL	F4L18	1F4	1996/4/21	3/11/2011	5437	14.90	32165
1FPPOOL	F4L20	1F4	1996/4/21	3/11/2011	5437	14.90	30118
1FPPOOL	F4L21	1F4	1996/4/21	3/11/2011	5437	14.90	32229
1FPPOOL	F4LN19	1F4	1996/4/21	3/11/2011	5437	14.90	29567
1FPPOOL	F4L38	1F4	1996/4/21	3/11/2011	5437	14.90	31292
1FPPOOL	F4L19	1F4	1996/4/21	3/11/2011	5437	14.90	31215
1FPPOOL	F4L41	1F4	1997/9/18	3/11/2011	4922	13.48	33157
1FPPOOL	F4L43	1F4	1996/4/21	3/11/2011	5437	14.90	28560
1FPPOOL	F4LN116	1F4	1997/9/18	3/11/2011	4922	13.48	31975
1FPPOOL	F4LN52	1F4	1996/4/21	3/11/2011	5437	14.90	31204
1FPPOOL	F4LN58	1F4	1996/4/21	3/11/2011	5437	14.90	32484
1FPPOOL	F4M11	1F4	1997/9/18	3/11/2011	4922	13.48	32130
1FPPOOL	F4LN45	1F4	1997/9/18	3/11/2011	4922	13.48	38409
1FPPOOL	F4LN72	1F4	1996/4/21	3/11/2011	5437	14.90	30359
1FPPOOL	F4LN73	1F4	1996/4/21	3/11/2011	5437	14.90	30314
1FPPOOL	F4LN78	1F4	1996/4/21	3/11/2011	5437	14.90	28206
1FPPOOL	F4LN79	1F4	1996/4/21	3/11/2011	5437	14.90	29170
1FPPOOL	F4LN84	1F4	1996/4/21	3/11/2011	5437	14.90	29898
1FPPOOL	F4LN106	1F4	1997/9/18	3/11/2011	4922	13.48	34170
1FPPOOL	F4LN66	1F4	1996/4/21	3/11/2011	5437	14.90	31916
1FPPOOL	F4LN67	1F4	1996/4/21	3/11/2011	5437	14.90	28136
1FPPOOL	F4LN93	1F4	1997/9/18	3/11/2011	4922	13.48	30915
1FPPOOL	F4LN94	1F4	1997/9/18	3/11/2011	4922	13.48	34139
1FPPOOL	F4LN99	1F4	1997/9/18	3/11/2011	4922	13.48	30946
1FPPOOL	F4LN100	1F4	1997/9/18	3/11/2011	4922	13.48	34148
1FPPOOL	F4LN63	1F4	1996/4/21	3/11/2011	5437	14.90	29105
1FPPOOL	F4LN85	1F4	1996/4/21	3/11/2011	5437	14.90	32562
1FPPOOL	F4LN87	1F4	1996/4/21	3/11/2011	5437	14.90	29083
1FPPOOL	F4LN68	1F4	1997/9/18	3/11/2011	4922	13.48	38431
1FPPOOL	F4LN90	1F4	1996/4/21	3/11/2011	5437	14.90	28143
1FPPOOL	F4M5	1F4	1997/9/18	3/11/2011	4922	13.48	31621
1FPPOOL	F4M100	1F4	1997/9/18	3/11/2011	4922	13.48	33084
1FPPOOL	F4LN110	1F4	1997/9/18	3/11/2011	4922	13.48	31982
1FPPOOL	F4M7	1F4	1997/9/18	3/11/2011	4922	13.48	32815
1FPPOOL	F4LN59	1F4	1997/9/18	3/11/2011	4922	13.48	34607
1FPPOOL	F4LN89	1F4	1996/4/21	3/11/2011	5437	14.90	31945
1FPPOOL	F4LN75	1F4	1996/4/21	3/11/2011	5437	14.90	31193
1FPPOOL	F4LN81	1F4	1996/4/21	3/11/2011	5437	14.90	32499
1FPPOOL	F4M8	1F4	1997/9/18	3/11/2011	4922	13.48	31618
1FPPOOL	F4M18	1F4	1997/9/18	3/11/2011	4922	13.48	32362
1FPPOOL	F4LN95	1F4	1997/9/18	3/11/2011	4922	13.48	32099
1FPPOOL	F4LN80	1F4	1996/4/21	3/11/2011	5437	14.90	29128
1FPPOOL	F4M13	1F4	1997/9/18	3/11/2011	4922	13.48	34135
1FPPOOL	F4LN44	1F4	1996/4/21	3/11/2011	5437	14.90	28135
1FPPOOL	F4M20	1F4	1997/9/18	3/11/2011	4922	13.48	33214
1FPPOOL	F4LN101	1F4	1997/9/18	3/11/2011	4922	13.48	32070
1FPPOOL	F4M16	1F4	1997/9/18	3/11/2011	4922	13.48	31193
1FPPOOL	F4M21	1F4	1997/9/18	3/11/2011	4922	13.48	34185
1FPPOOL	F4LN112	1F4	1997/9/18	3/11/2011	4922	13.48	34121
1FPPOOL	F4LN50	1F4	1996/4/21	3/11/2011	5437	14.90	30326
1FPPOOL	F4M23	1F4	1997/9/18	3/11/2011	4922	13.48	32874
1FPPOOL	F4LN56	1F4	1996/4/21	3/11/2011	5437	14.90	29138

1FPPOOL	F4LN111	1F4	1997/9/18	3/11/2011	4922	13.48	30912
1FPPOOL	F4LN76	1F4	1996/4/21	3/11/2011	5437	14.90	32953
1FPPOOL	F4M9	1F4	1997/9/18	3/11/2011	4922	13.48	33775
1FPPOOL	F4LN46	1F4	1997/9/18	3/11/2011	4922	13.48	37342
1FPPOOL	F4LN53	1F4	1996/4/21	3/11/2011	5437	14.90	32964
1FPPOOL	F4LN70	1F4	1996/4/21	3/11/2011	5437	14.90	31402
1FPPOOL	F4M22	1F4	1997/9/18	3/11/2011	4922	13.48	33082
1FPPOOL	F4M12	1F4	1997/9/18	3/11/2011	4922	13.48	33832
1FPPOOL	F4M39	1F4	1997/9/18	3/11/2011	4922	13.48	34099
1FPPOOL	F4LN91	1F4	1997/9/18	3/11/2011	4922	13.48	38450
1FPPOOL	F4M2	1F4	1997/9/18	3/11/2011	4922	13.48	31040
1FPPOOL	F4LN82	1F4	1997/9/18	3/11/2011	4922	13.48	34584
1FPPOOL	F4LN83	1F4	1996/4/21	3/11/2011	5437	14.90	32831
1FPPOOL	F4LN51	1F4	1996/4/21	3/11/2011	5437	14.90	31416
1FPPOOL	F4LN57	1F4	1996/4/21	3/11/2011	5437	14.90	29113
1FPPOOL	F4LN104	1F4	1997/9/18	3/11/2011	4922	13.48	31940
1FPPOOL	F4LN105	1F4	1997/9/18	3/11/2011	4922	13.48	30916
1FPPOOL	F4LN107	1F4	1997/9/18	3/11/2011	4922	13.48	32079
1FPPOOL	F4LN42	1F4	1996/4/21	3/11/2011	5437	14.90	29504
1FPPOOL	F4LN48	1F4	1996/4/21	3/11/2011	5437	14.90	32708
1FPPOOL	F4LN71	1F4	1996/4/21	3/11/2011	5437	14.90	32708
1FPPOOL	F4LN55	1F4	1996/4/21	3/11/2011	5437	14.90	28206
1FPPOOL	F4LN60	1F4	1996/4/21	3/11/2011	5437	14.90	32865
1FPPOOL	F4LN77	1F4	1997/9/18	3/11/2011	4922	13.48	38671
1FPPOOL	F4LN86	1F4	1996/4/21	3/11/2011	5437	14.90	29104
1FPPOOL	F4LN49	1F4	1996/4/21	3/11/2011	5437	14.90	30363
1FPPOOL	F4LN54	1F4	1997/9/18	3/11/2011	4922	13.48	38692
1FPPOOL	F4LN43	1F4	1996/4/21	3/11/2011	5437	14.90	31943
1FPPOOL	F4LN92	1F4	1997/9/18	3/11/2011	4922	13.48	37309
1FPPOOL	F4LN61	1F4	1996/4/21	3/11/2011	5437	14.90	29909
1FPPOOL	F4LN62	1F4	1996/4/21	3/11/2011	5437	14.90	32522
1FPPOOL	F4LN113	1F4	1997/9/18	3/11/2011	4922	13.48	32065
1FPPOOL	F4LN98	1F4	1997/9/18	3/11/2011	4922	13.48	31975
1FPPOOL	F4M6	1F4	1997/9/18	3/11/2011	4922	13.48	30964
1FPPOOL	F4LN65	1F4	1996/4/21	3/11/2011	5437	14.90	29538
1FPPOOL	F4LN64	1F4	1996/4/21	3/11/2011	5437	14.90	29105
1FPPOOL	F4LN88	1F4	1996/4/21	3/11/2011	5437	14.90	29514
1FPPOOL	F4M86	1F4	1997/9/18	3/11/2011	4922	13.48	31695
1FPPOOL	F4M73	1F4	1997/9/18	3/11/2011	4922	13.48	34241
1FPPOOL	F4M83	1F4	1997/9/18	3/11/2011	4922	13.48	31703
1FPPOOL	F4M99	1F4	1997/9/18	3/11/2011	4922	13.48	34245
1FPPOOL	F4M80	1F4	1997/9/18	3/11/2011	4922	13.48	31134
1FPPOOL	F4M60	1F4	1997/9/18	3/11/2011	4922	13.48	31710
1FPPOOL	F4M75	1F4	1997/9/18	3/11/2011	4922	13.48	32907
1FPPOOL	F4M38	1F4	1997/9/18	3/11/2011	4922	13.48	33862
1FPPOOL	F4M33	1F4	1997/9/18	3/11/2011	4922	13.48	32880
1FPPOOL	F4M65	1F4	1997/9/18	3/11/2011	4922	13.48	34123
1FPPOOL	F4M85	1F4	1997/9/18	3/11/2011	4922	13.48	32850
1FPPOOL	F4M49	1F4	1997/9/18	3/11/2011	4922	13.48	32923
1FPPOOL	F4M44	1F4	1997/9/18	3/11/2011	4922	13.48	32411
1FPPOOL	F4M35	1F4	1997/9/18	3/11/2011	4922	13.48	33806
1FPPOOL	F4M96	1F4	1997/9/18	3/11/2011	4922	13.48	32412
1FPPOOL	F4M89	1F4	1997/9/18	3/11/2011	4922	13.48	32187

1FPPOOL	F4M47	1F4	1997/9/18	3/11/2011	4922	13.48	34206
1FPPOOL	F4M48	1F4	1997/9/18	3/11/2011	4922	13.48	33110
1FPPOOL	F4M87	1F4	1997/9/18	3/11/2011	4922	13.48	33847
1FPPOOL	F4M31	1F4	1997/9/18	3/11/2011	4922	13.48	31638
1FPPOOL	F4M37	1F4	1997/9/18	3/11/2011	4922	13.48	32176
1FPPOOL	F4M28	1F4	1997/9/18	3/11/2011	4922	13.48	31114
1FPPOOL	F4M58	1F4	1997/9/18	3/11/2011	4922	13.48	31052
1FPPOOL	F4M61	1F4	1997/9/18	3/11/2011	4922	13.48	33868
1FPPOOL	F4M84	1F4	1997/9/18	3/11/2011	4922	13.48	30994
1FPPOOL	F4M64	1F4	1997/9/18	3/11/2011	4922	13.48	33866
1FPPOOL	F4M72	1F4	1997/9/18	3/11/2011	4922	13.48	33254
1FPPOOL	F4M42	1F4	1997/9/18	3/11/2011	4922	13.48	31224
1FPPOOL	F4M54	1F4	1997/9/18	3/11/2011	4922	13.48	31100
1FPPOOL	F4M50	1F4	1997/9/18	3/11/2011	4922	13.48	34246
1FPPOOL	F4M59	1F4	1997/9/18	3/11/2011	4922	13.48	32903
1FPPOOL	F4M74	1F4	1997/9/18	3/11/2011	4922	13.48	33085
1FPPOOL	F4M34	1F4	1997/9/18	3/11/2011	4922	13.48	31666
1FPPOOL	F4M46	1F4	1997/9/18	3/11/2011	4922	13.48	33251
1FPPOOL	F4M32	1F4	1997/9/18	3/11/2011	4922	13.48	31008
1FPPOOL	F4M63	1F4	1997/9/18	3/11/2011	4922	13.48	32186
1FPPOOL	F4M24	1F4	1997/9/18	3/11/2011	4922	13.48	34176
1FPPOOL	F4M70	1F4	1997/9/18	3/11/2011	4922	13.48	32454
1FPPOOL	F4M76	1F4	1997/9/18	3/11/2011	4922	13.48	34289
1FPPOOL	F4M91	1F4	1997/9/18	3/11/2011	4922	13.48	34128
1FPPOOL	F4M68	1F4	1997/9/18	3/11/2011	4922	13.48	31205
1FPPOOL	F4M57	1F4	1997/9/18	3/11/2011	4922	13.48	31672
1FPPOOL	F4M98	1F4	1997/9/18	3/11/2011	4922	13.48	33281
1FPPOOL	F4M94	1F4	1997/9/18	3/11/2011	4922	13.48	31260
1FPPOOL	F4M90	1F4	1997/9/18	3/11/2011	4922	13.48	33876
1FPPOOL	F4M117	1F4	1997/9/18	3/11/2011	4922	13.48	32617
1FPPOOL	F4M110	1F4	1997/9/18	3/11/2011	4922	13.48	31535
1FPPOOL	F4M138	1F4	1997/9/18	3/11/2011	4922	13.48	31460
1FPPOOL	F4M145	1F4	1997/9/18	3/11/2011	4922	13.48	32572
1FPPOOL	F4M128	1F4	1997/9/18	3/11/2011	4922	13.48	32505
1FPPOOL	F4M156	1F4	1997/9/18	3/11/2011	4922	13.48	32536
1FPPOOL	F4M102	1F4	1997/9/18	3/11/2011	4922	13.48	34271
1FPPOOL	F4M142	1F4	1997/9/18	3/11/2011	4922	13.48	32514
1FPPOOL	F4M131	1F4	1997/9/18	3/11/2011	4922	13.48	32557
1FPPOOL	F4M114	1F4	1997/9/18	3/11/2011	4922	13.48	32593
1FPPOOL	F4M101	1F4	1997/9/18	3/11/2011	4922	13.48	32902
1FPPOOL	F4M159	1F4	1997/9/18	3/11/2011	4922	13.48	32601
1FPPOOL	F4M124	1F4	1997/9/18	3/11/2011	4922	13.48	31466
1FPPOOL	F4M152	1F4	1997/9/18	3/11/2011	4922	13.48	31486
1FPPOOL	F5C23	1F5	1987/9/5	3/11/2011	8588	23.53	27764
1FPPOOL	F5C24	1F5	1987/9/5	3/11/2011	8588	23.53	27760
1FPPOOL	F5E147	1F5	1992/1/10	3/11/2011	7000	19.18	29322
1FPPOOL	F5C72	1F5	1986/4/20	3/11/2011	9091	24.91	23001
1FPPOOL	F5C137	1F5	1986/4/20	3/11/2011	9091	24.91	23085
1FPPOOL	F5C138	1F5	1986/4/20	3/11/2011	9091	24.91	23077
1FPPOOL	F5C101	1F5	1986/4/20	3/11/2011	9091	24.91	23081
1FPPOOL	F5C102	1F5	1986/4/20	3/11/2011	9091	24.91	23081
1FPPOOL	F5C4	1F5	1986/4/20	3/11/2011	9091	24.91	23035
1FPPOOL	F5C3	1F5	1986/4/20	3/11/2011	9091	24.91	23033

1FPPOOL	F5D17	1F5	1989/2/27	3/11/2011	8047	22.05	23320
1FPPOOL	F5C21	1F5	1987/9/5	3/11/2011	8588	23.53	27488
1FPPOOL	F5C22	1F5	1987/9/5	3/11/2011	8588	23.53	27489
1FPPOOL	F5D110	1F5	1987/9/5	3/11/2011	8588	23.53	22985
1FPPOOL	F5D111	1F5	1987/9/5	3/11/2011	8588	23.53	23507
1FPPOOL	F5D145	1F5	1987/9/5	3/11/2011	8588	23.53	22521
1FPPOOL	F5D146	1F5	1987/9/5	3/11/2011	8588	23.53	22550
1FPPOOL	F5D147	1F5	1989/2/27	3/11/2011	8047	22.05	23306
1FPPOOL	F5D65	1F5	1989/2/27	3/11/2011	8047	22.05	24069
1FPPOOL	F5D136	1F5	1987/9/5	3/11/2011	8588	23.53	22502
1FPPOOL	F5D137	1F5	1987/9/5	3/11/2011	8588	23.53	22972
1FPPOOL	F5D138	1F5	1987/9/5	3/11/2011	8588	23.53	22979
1FPPOOL	F5D139	1F5	1987/9/5	3/11/2011	8588	23.53	22867
1FPPOOL	F5D140	1F5	1987/9/5	3/11/2011	8588	23.53	22856
1FPPOOL	F5D141	1F5	1987/9/5	3/11/2011	8588	23.53	22514
1FPPOOL	F5D70	1F5	1989/2/27	3/11/2011	8047	22.05	23335
1FPPOOL	F5D71	1F5	1987/9/5	3/11/2011	8588	23.53	27089
1FPPOOL	F5DN4	1F5	1989/2/27	3/11/2011	8047	22.05	23400
1FPPOOL	F5D118	1F5	1987/9/5	3/11/2011	8588	23.53	22538
1FPPOOL	F5DN13	1F5	1989/2/27	3/11/2011	8047	22.05	24191
1FPPOOL	F5DN15	1F5	1989/2/27	3/11/2011	8047	22.05	23964
1FPPOOL	F5D74	1F5	1986/4/20	3/11/2011	9091	24.91	23124
1FPPOOL	F5D75	1F5	1987/9/5	3/11/2011	8588	23.53	21213
1FPPOOL	F5D66	1F5	1989/2/27	3/11/2011	8047	22.05	24070
1FPPOOL	F5D67	1F5	1987/9/5	3/11/2011	8588	23.53	21239
1FPPOOL	F5EN24	1F5	1990/7/28	3/11/2011	7531	20.63	38094
1FPPOOL	F5E145	1F5	1992/1/10	3/11/2011	7000	19.18	28749
1FPPOOL	F5E146	1F5	1992/1/10	3/11/2011	7000	19.18	28762
1FPPOOL	F5G3	1F5	1993/3/3	3/11/2011	6582	18.03	30000
1FPPOOL	F5D150	1F5	1989/2/27	3/11/2011	8047	22.05	23045
1FPPOOL	F5D148	1F5	1989/2/27	3/11/2011	8047	22.05	23309
1FPPOOL	F5EN19	1F5	1990/7/28	3/11/2011	7531	20.63	38095
1FPPOOL	F5D151	1F5	1989/2/27	3/11/2011	8047	22.05	23332
1FPPOOL	F5D61	1F5	1987/9/5	3/11/2011	8588	23.53	21169
1FPPOOL	F5D62	1F5	1987/9/5	3/11/2011	8588	23.53	21169
1FPPOOL	F5D63	1F5	1987/9/5	3/11/2011	8588	23.53	22489
1FPPOOL	F5D64	1F5	1987/9/5	3/11/2011	8588	23.53	22489
1FPPOOL	F5DN24	1F5	1987/9/5	3/11/2011	8588	23.53	27240
1FPPOOL	F5F38	1F5	1990/7/28	3/11/2011	7531	20.63	30695
1FPPOOL	F5F44	1F5	1990/7/28	3/11/2011	7531	20.63	33215
1FPPOOL	F5D78	1F5	1987/9/5	3/11/2011	8588	23.53	21123
1FPPOOL	F5D79	1F5	1987/9/5	3/11/2011	8588	23.53	22843
1FPPOOL	F5D80	1F5	1987/9/5	3/11/2011	8588	23.53	22850
1FPPOOL	F5F37	1F5	1990/7/28	3/11/2011	7531	20.63	30697
1FPPOOL	F5F46	1F5	1990/7/28	3/11/2011	7531	20.63	33192
1FPPOOL	F5F9	1F5	1989/2/27	3/11/2011	8047	22.05	24960
1FPPOOL	F5F10	1F5	1989/2/27	3/11/2011	8047	22.05	24968
1FPPOOL	F5D152	1F5	1989/2/27	3/11/2011	8047	22.05	23360
1FPPOOL	F5D121	1F5	1987/9/5	3/11/2011	8588	23.53	22539
1FPPOOL	F5D122	1F5	1987/9/5	3/11/2011	8588	23.53	22529
1FPPOOL	F5DN16	1F5	1989/2/27	3/11/2011	8047	22.05	23954
1FPPOOL	F5EN20	1F5	1990/7/28	3/11/2011	7531	20.63	38076
1FPPOOL	F5F8	1F5	1989/2/27	3/11/2011	8047	22.05	24960

1FPPOOL	F5D112	1F5	1987/9/5	3/11/2011	8588	23.53	23489
1FPPOOL	F5D113	1F5	1987/9/5	3/11/2011	8588	23.53	22960
1FPPOOL	F5D114	1F5	1987/9/5	3/11/2011	8588	23.53	22968
1FPPOOL	F5D117	1F5	1987/9/5	3/11/2011	8588	23.53	22548
1FPPOOL	F5D131	1F5	1987/9/5	3/11/2011	8588	23.53	22462
1FPPOOL	F5D132	1F5	1987/9/5	3/11/2011	8588	23.53	22518
1FPPOOL	F5D133	1F5	1987/9/5	3/11/2011	8588	23.53	22975
1FPPOOL	F5DN14	1F5	1989/2/27	3/11/2011	8047	22.05	24194
1FPPOOL	F5F45	1F5	1990/7/28	3/11/2011	7531	20.63	33200
1FPPOOL	F5EN18	1F5	1989/2/27	3/11/2011	8047	22.05	33991
1FPPOOL	F5D76	1F5	1987/9/5	3/11/2011	8588	23.53	21215
1FPPOOL	F5D149	1F5	1989/2/27	3/11/2011	8047	22.05	23045
1FPPOOL	F5D95	1F5	1986/4/20	3/11/2011	9091	24.91	23081
1FPPOOL	F5D96	1F5	1986/4/20	3/11/2011	9091	24.91	23088
1FPPOOL	F5D88	1F5	1986/4/20	3/11/2011	9091	24.91	23124
1FPPOOL	F5DN19	1F5	1987/9/5	3/11/2011	8588	23.53	21479
1FPPOOL	F5DN20	1F5	1987/9/5	3/11/2011	8588	23.53	21518
1FPPOOL	F5DN21	1F5	1987/9/5	3/11/2011	8588	23.53	27235
1FPPOOL	F5F43	1F5	1990/7/28	3/11/2011	7531	20.63	33239
1FPPOOL	F5D90	1F5	1989/2/27	3/11/2011	8047	22.05	24105
1FPPOOL	F5EN23	1F5	1990/7/28	3/11/2011	7531	20.63	38104
1FPPOOL	F5F7	1F5	1989/2/27	3/11/2011	8047	22.05	24968
1FPPOOL	F5E148	1F5	1992/1/10	3/11/2011	7000	19.18	29312
1FPPOOL	F5F13	1F5	1989/2/27	3/11/2011	8047	22.05	24862
1FPPOOL	F5F14	1F5	1989/2/27	3/11/2011	8047	22.05	24870
1FPPOOL	F5D134	1F5	1987/9/5	3/11/2011	8588	23.53	22973
1FPPOOL	F5D135	1F5	1987/9/5	3/11/2011	8588	23.53	22455
1FPPOOL	F5F12	1F5	1989/2/27	3/11/2011	8047	22.05	24876
1FPPOOL	F5D154	1F5	1989/2/27	3/11/2011	8047	22.05	23072
1FPPOOL	F5DN1	1F5	1987/9/5	3/11/2011	8588	23.53	27969
1FPPOOL	F5DN2	1F5	1987/9/5	3/11/2011	8588	23.53	27974
1FPPOOL	F5EN22	1F5	1989/2/27	3/11/2011	8047	22.05	33993
1FPPOOL	F5D99	1F5	1987/9/5	3/11/2011	8588	23.53	23953
1FPPOOL	F5D100	1F5	1987/9/5	3/11/2011	8588	23.53	23955
1FPPOOL	F5D101	1F5	1987/9/5	3/11/2011	8588	23.53	23527
1FPPOOL	F5D102	1F5	1987/9/5	3/11/2011	8588	23.53	23531
1FPPOOL	F5D103	1F5	1987/9/5	3/11/2011	8588	23.53	23941
1FPPOOL	F5D104	1F5	1987/9/5	3/11/2011	8588	23.53	23946
1FPPOOL	F5D92	1F5	1989/2/27	3/11/2011	8047	22.05	24105
1FPPOOL	F5D93	1F5	1987/9/5	3/11/2011	8588	23.53	22615
1FPPOOL	F5D94	1F5	1987/9/5	3/11/2011	8588	23.53	22619
1FPPOOL	F5D142	1F5	1987/9/5	3/11/2011	8588	23.53	22519
1FPPOOL	F5D143	1F5	1987/9/5	3/11/2011	8588	23.53	22869
1FPPOOL	F5D144	1F5	1987/9/5	3/11/2011	8588	23.53	22882
1FPPOOL	F5DN3	1F5	1989/2/27	3/11/2011	8047	22.05	23395
1FPPOOL	F5D105	1F5	1987/9/5	3/11/2011	8588	23.53	23518
1FPPOOL	F5D106	1F5	1987/9/5	3/11/2011	8588	23.53	23512
1FPPOOL	F5D107	1F5	1987/9/5	3/11/2011	8588	23.53	23511
1FPPOOL	F5D108	1F5	1987/9/5	3/11/2011	8588	23.53	23504
1FPPOOL	F5D109	1F5	1987/9/5	3/11/2011	8588	23.53	22922
1FPPOOL	F5D153	1F5	1989/2/27	3/11/2011	8047	22.05	23092
1FPPOOL	F5D37	1F5	1987/9/5	3/11/2011	8588	23.53	22884
1FPPOOL	F5D38	1F5	1987/9/5	3/11/2011	8588	23.53	27823

1FPPOOL	F5D39	1F5	1987/9/5	3/11/2011	8588	23.53	27819
1FPPOOL	F5D31	1F5	1987/9/5	3/11/2011	8588	23.53	22877
1FPPOOL	F5D68	1F5	1987/9/5	3/11/2011	8588	23.53	21259
1FPPOOL	F5D69	1F5	1987/9/5	3/11/2011	8588	23.53	27091
1FPPOOL	F5F11	1F5	1989/2/27	3/11/2011	8047	22.05	24875
1FPPOOL	F5G8	1F5	1993/3/3	3/11/2011	6582	18.03	29802
1FPPOOL	F5G20	1F5	1990/7/28	3/11/2011	7531	20.63	31442
1FPPOOL	F5G28	1F5	1990/7/28	3/11/2011	7531	20.63	30335
1FPPOOL	F5G7	1F5	1993/3/3	3/11/2011	6582	18.03	29811
1FPPOOL	F5G9	1F5	1990/7/28	3/11/2011	7531	20.63	30551
1FPPOOL	F5F71	1F5	1990/7/28	3/11/2011	7531	20.63	31747
1FPPOOL	F5G34	1F5	1992/1/10	3/11/2011	7000	19.18	29305
1FPPOOL	F5FN57	1F5	1990/7/28	3/11/2011	7531	20.63	27087
1FPPOOL	F5G35	1F5	1992/1/10	3/11/2011	7000	19.18	29373
1FPPOOL	F5FN58	1F5	1990/7/28	3/11/2011	7531	20.63	27112
1FPPOOL	F5G1	1F5	1992/1/10	3/11/2011	7000	19.18	25802
1FPPOOL	F5G22	1F5	1990/7/28	3/11/2011	7531	20.63	31138
1FPPOOL	F5G2	1F5	1992/1/10	3/11/2011	7000	19.18	25795
1FPPOOL	F5G6	1F5	1993/3/3	3/11/2011	6582	18.03	28086
1FPPOOL	F5G21	1F5	1990/7/28	3/11/2011	7531	20.63	31125
1FPPOOL	F5G30	1F5	1990/7/28	3/11/2011	7531	20.63	29728
1FPPOOL	F5F73	1F5	1990/7/28	3/11/2011	7531	20.63	31719
1FPPOOL	F5G31	1F5	1990/7/28	3/11/2011	7531	20.63	29747
1FPPOOL	F5F64	1F5	1990/7/28	3/11/2011	7531	20.63	30860
1FPPOOL	F5F72	1F5	1990/7/28	3/11/2011	7531	20.63	31748
1FPPOOL	F5G32	1F5	1990/7/28	3/11/2011	7531	20.63	29737
1FPPOOL	F5G43	1F5	1992/1/10	3/11/2011	7000	19.18	28706
1FPPOOL	F5G12	1F5	1990/7/28	3/11/2011	7531	20.63	30535
1FPPOOL	F5GN55	1F5	1990/7/28	3/11/2011	7531	20.63	31542
1FPPOOL	F5G36	1F5	1992/1/10	3/11/2011	7000	19.18	29305
1FPPOOL	F5F54	1F5	1992/1/10	3/11/2011	7000	19.18	26786
1FPPOOL	F5FN26	1F5	1989/2/27	3/11/2011	8047	22.05	24739
1FPPOOL	F5F53	1F5	1992/1/10	3/11/2011	7000	19.18	26758
1FPPOOL	F5G41	1F5	1992/1/10	3/11/2011	7000	19.18	28716
1FPPOOL	F5FN59	1F5	1990/7/28	3/11/2011	7531	20.63	27119
1FPPOOL	F5FN60	1F5	1990/7/28	3/11/2011	7531	20.63	27130
1FPPOOL	F5G24	1F5	1990/7/28	3/11/2011	7531	20.63	31116
1FPPOOL	F5G4	1F5	1993/3/3	3/11/2011	6582	18.03	30006
1FPPOOL	F5G15	1F5	1990/7/28	3/11/2011	7531	20.63	30784
1FPPOOL	F5G14	1F5	1990/7/28	3/11/2011	7531	20.63	30778
1FPPOOL	F5G10	1F5	1990/7/28	3/11/2011	7531	20.63	30551
1FPPOOL	F5G25	1F5	1990/7/28	3/11/2011	7531	20.63	30352
1FPPOOL	F5G23	1F5	1990/7/28	3/11/2011	7531	20.63	31118
1FPPOOL	F5G13	1F5	1990/7/28	3/11/2011	7531	20.63	30776
1FPPOOL	F5G11	1F5	1990/7/28	3/11/2011	7531	20.63	30527
1FPPOOL	F5F58	1F5	1993/3/3	3/11/2011	6582	18.03	27748
1FPPOOL	F5G33	1F5	1992/1/10	3/11/2011	7000	19.18	29391
1FPPOOL	F5F63	1F5	1990/7/28	3/11/2011	7531	20.63	30884
1FPPOOL	F5FN28	1F5	1989/2/27	3/11/2011	8047	22.05	24737
1FPPOOL	F5FN39	1F5	1990/7/28	3/11/2011	7531	20.63	34183
1FPPOOL	F5G49	1F5	1992/1/10	3/11/2011	7000	19.18	27855
1FPPOOL	F5G17	1F5	1990/7/28	3/11/2011	7531	20.63	31455
1FPPOOL	F5G26	1F5	1990/7/28	3/11/2011	7531	20.63	30352

1FPPOOL	F5G18	1F5	1990/7/28	3/11/2011	7531	20.63	31453
1FPPOOL	F5G19	1F5	1990/7/28	3/11/2011	7531	20.63	31444
1FPPOOL	F5G50	1F5	1992/1/10	3/11/2011	7000	19.18	28112
1FPPOOL	F5G27	1F5	1990/7/28	3/11/2011	7531	20.63	30352
1FPPOOL	F5G5	1F5	1993/3/3	3/11/2011	6582	18.03	28081
1FPPOOL	F5G16	1F5	1990/7/28	3/11/2011	7531	20.63	30795
1FPPOOL	F5F57	1F5	1993/3/3	3/11/2011	6582	18.03	27760
1FPPOOL	F5F66	1F5	1990/7/28	3/11/2011	7531	20.63	30859
1FPPOOL	F5F74	1F5	1990/7/28	3/11/2011	7531	20.63	31681
1FPPOOL	F5F65	1F5	1990/7/28	3/11/2011	7531	20.63	30857
1FPPOOL	F5F52	1F5	1992/1/10	3/11/2011	7000	19.18	27608
1FPPOOL	F5F76	1F5	1990/7/28	3/11/2011	7531	20.63	27102
1FPPOOL	F5G29	1F5	1990/7/28	3/11/2011	7531	20.63	29728
1FPPOOL	F5F78	1F5	1990/7/28	3/11/2011	7531	20.63	27109
1FPPOOL	F5FN40	1F5	1990/7/28	3/11/2011	7531	20.63	34194
1FPPOOL	F5GN51	1F5	1990/7/28	3/11/2011	7531	20.63	31119
1FPPOOL	F5H5	1F5	1992/1/10	3/11/2011	7000	19.18	30078
1FPPOOL	F5H6	1F5	1992/1/10	3/11/2011	7000	19.18	30050
1FPPOOL	F5GN48	1F5	1990/7/28	3/11/2011	7531	20.63	27981
1FPPOOL	F5GN49	1F5	1990/7/28	3/11/2011	7531	20.63	31102
1FPPOOL	F5GN52	1F5	1990/7/28	3/11/2011	7531	20.63	31114
1FPPOOL	F5H17	1F5	1993/3/3	3/11/2011	6582	18.03	30484
1FPPOOL	F5G65	1F5	1992/1/10	3/11/2011	7000	19.18	27617
1FPPOOL	F5GN3	1F5	1990/7/28	3/11/2011	7531	20.63	27875
1FPPOOL	F5H10	1F5	1993/3/3	3/11/2011	6582	18.03	33318
1FPPOOL	F5GN12	1F5	1990/7/28	3/11/2011	7531	20.63	30005
1FPPOOL	F5G54	1F5	1992/1/10	3/11/2011	7000	19.18	27973
1FPPOOL	F5GN2	1F5	1990/7/28	3/11/2011	7531	20.63	27888
1FPPOOL	F5GN11	1F5	1990/7/28	3/11/2011	7531	20.63	30017
1FPPOOL	F5GN30	1F5	1990/7/28	3/11/2011	7531	20.63	33299
1FPPOOL	F5GN38	1F5	1990/7/28	3/11/2011	7531	20.63	31649
1FPPOOL	F5GN18	1F5	1993/3/3	3/11/2011	6582	18.03	28457
1FPPOOL	F5H11	1F5	1993/3/3	3/11/2011	6582	18.03	33323
1FPPOOL	F5G53	1F5	1992/1/10	3/11/2011	7000	19.18	28216
1FPPOOL	F5GN19	1F5	1992/1/10	3/11/2011	7000	19.18	26298
1FPPOOL	F5GN21	1F5	1992/1/10	3/11/2011	7000	19.18	27887
1FPPOOL	F5GN29	1F5	1990/7/28	3/11/2011	7531	20.63	33305
1FPPOOL	F5GN32	1F5	1990/7/28	3/11/2011	7531	20.63	33299
1FPPOOL	F5GN40	1F5	1990/7/28	3/11/2011	7531	20.63	31626
1FPPOOL	F5HN9	1F5	1992/1/10	3/11/2011	7000	19.18	30185
1FPPOOL	F5H14	1F5	1993/3/3	3/11/2011	6582	18.03	32632
1FPPOOL	F5GN24	1F5	1992/1/10	3/11/2011	7000	19.18	27884
1FPPOOL	F5GN54	1F5	1990/7/28	3/11/2011	7531	20.63	31553
1FPPOOL	F5G66	1F5	1992/1/10	3/11/2011	7000	19.18	27624
1FPPOOL	F5H1	1F5	1992/1/10	3/11/2011	7000	19.18	32326
1FPPOOL	F5H13	1F5	1993/3/3	3/11/2011	6582	18.03	32612
1FPPOOL	F5H7	1F5	1992/1/10	3/11/2011	7000	19.18	30084
1FPPOOL	F5GN23	1F5	1992/1/10	3/11/2011	7000	19.18	27890
1FPPOOL	F5GN6	1F5	1990/7/28	3/11/2011	7531	20.63	29869
1FPPOOL	F5G72	1F5	1992/1/10	3/11/2011	7000	19.18	27778
1FPPOOL	F5G55	1F5	1992/1/10	3/11/2011	7000	19.18	28210
1FPPOOL	F5G73	1F5	1992/1/10	3/11/2011	7000	19.18	29246
1FPPOOL	F5GN5	1F5	1990/7/28	3/11/2011	7531	20.63	29832

1FPPOOL	F5H19	1F5	1993/3/3	3/11/2011	6582	18.03	30497
1FPPOOL	F5H18	1F5	1993/3/3	3/11/2011	6582	18.03	30497
1FPPOOL	F5H12	1F5	1993/3/3	3/11/2011	6582	18.03	33312
1FPPOOL	F5GN4	1F5	1990/7/28	3/11/2011	7531	20.63	27862
1FPPOOL	F5GN31	1F5	1990/7/28	3/11/2011	7531	20.63	33295
1FPPOOL	F5GN14	1F5	1990/7/28	3/11/2011	7531	20.63	29676
1FPPOOL	F5H2	1F5	1992/1/10	3/11/2011	7000	19.18	32316
1FPPOOL	F5GN15	1F5	1990/7/28	3/11/2011	7531	20.63	29658
1FPPOOL	F5H15	1F5	1993/3/3	3/11/2011	6582	18.03	32615
1FPPOOL	F5H16	1F5	1993/3/3	3/11/2011	6582	18.03	32636
1FPPOOL	F5GN58	1F5	1990/7/28	3/11/2011	7531	20.63	29661
1FPPOOL	F5H21	1F5	1994/9/15	3/11/2011	6021	16.50	25980
1FPPOOL	F5GN57	1F5	1990/7/28	3/11/2011	7531	20.63	29686
1FPPOOL	F5GN53	1F5	1990/7/28	3/11/2011	7531	20.63	31545
1FPPOOL	F5H8	1F5	1992/1/10	3/11/2011	7000	19.18	30045
1FPPOOL	F5GN7	1F5	1990/7/28	3/11/2011	7531	20.63	29867
1FPPOOL	F5H20	1F5	1993/3/3	3/11/2011	6582	18.03	30492
1FPPOOL	F5H9	1F5	1993/3/3	3/11/2011	6582	18.03	33330
1FPPOOL	F5GN56	1F5	1990/7/28	3/11/2011	7531	20.63	31554
1FPPOOL	F5G56	1F5	1992/1/10	3/11/2011	7000	19.18	27970
1FPPOOL	F5GN8	1F5	1990/7/28	3/11/2011	7531	20.63	29858
1FPPOOL	F5GN16	1F5	1990/7/28	3/11/2011	7531	20.63	29664
1FPPOOL	F5GN13	1F5	1990/7/28	3/11/2011	7531	20.63	29676
1FPPOOL	F5H22	1F5	1994/9/15	3/11/2011	6021	16.50	25911
1FPPOOL	F5GN25	1F5	1990/7/28	3/11/2011	7531	20.63	31794
1FPPOOL	F5GN60	1F5	1990/7/28	3/11/2011	7531	20.63	29653
1FPPOOL	F5H4	1F5	1992/1/10	3/11/2011	7000	19.18	32323
1FPPOOL	F5GN26	1F5	1990/7/28	3/11/2011	7531	20.63	31787
1FPPOOL	F5H3	1F5	1992/1/10	3/11/2011	7000	19.18	32322
1FPPOOL	F5H23	1F5	1994/9/15	3/11/2011	6021	16.50	25978
1FPPOOL	F5G70	1F5	1992/1/10	3/11/2011	7000	19.18	27777
1FPPOOL	F5GN45	1F5	1990/7/28	3/11/2011	7531	20.63	28017
1FPPOOL	F5GN47	1F5	1990/7/28	3/11/2011	7531	20.63	27998
1FPPOOL	F5GN50	1F5	1990/7/28	3/11/2011	7531	20.63	31108
1FPPOOL	F5G74	1F5	1992/1/10	3/11/2011	7000	19.18	29290
1FPPOOL	F5GN59	1F5	1990/7/28	3/11/2011	7531	20.63	29660
1FPPOOL	F5G51	1F5	1992/1/10	3/11/2011	7000	19.18	27858
1FPPOOL	F5G68	1F5	1992/1/10	3/11/2011	7000	19.18	27635
1FPPOOL	F5GN10	1F5	1990/7/28	3/11/2011	7531	20.63	30021
1FPPOOL	F5GN20	1F5	1992/1/10	3/11/2011	7000	19.18	26296
1FPPOOL	F5GN46	1F5	1990/7/28	3/11/2011	7531	20.63	28000
1FPPOOL	F5G52	1F5	1992/1/10	3/11/2011	7000	19.18	28099
1FPPOOL	F5GN1	1F5	1990/7/28	3/11/2011	7531	20.63	27903
1FPPOOL	F5GN9	1F5	1990/7/28	3/11/2011	7531	20.63	30016
1FPPOOL	F5GN28	1F5	1990/7/28	3/11/2011	7531	20.63	31789
1FPPOOL	F5G75	1F5	1992/1/10	3/11/2011	7000	19.18	29246
1FPPOOL	F5GN37	1F5	1990/7/28	3/11/2011	7531	20.63	31624
1FPPOOL	F5H43	1F5	1992/1/10	3/11/2011	7000	19.18	31185
1FPPOOL	F5GN17	1F5	1993/3/3	3/11/2011	6582	18.03	28462
1FPPOOL	F5GN39	1F5	1990/7/28	3/11/2011	7531	20.63	31625
1FPPOOL	F5G76	1F5	1992/1/10	3/11/2011	7000	19.18	29270
1FPPOOL	F5GN27	1F5	1990/7/28	3/11/2011	7531	20.63	31776
1FPPOOL	F5GN22	1F5	1992/1/10	3/11/2011	7000	19.18	27890

1FPPOOL	F5H71	1F5	1992/1/10	3/11/2011	7000	19.18	33261
1FPPOOL	F5HN23	1F5	1992/1/10	3/11/2011	7000	19.18	30082
1FPPOOL	F5HN24	1F5	1992/1/10	3/11/2011	7000	19.18	30106
1FPPOOL	F5HN25	1F5	1992/1/10	3/11/2011	7000	19.18	30584
1FPPOOL	F5H32	1F5	1993/3/3	3/11/2011	6582	18.03	31193
1FPPOOL	F5H39	1F5	1993/3/3	3/11/2011	6582	18.03	26327
1FPPOOL	F5HN35	1F5	1992/1/10	3/11/2011	7000	19.18	34861
1FPPOOL	F5HN16	1F5	1992/1/10	3/11/2011	7000	19.18	35327
1FPPOOL	F5H37	1F5	1993/3/3	3/11/2011	6582	18.03	26330
1FPPOOL	F5H46	1F5	1992/1/10	3/11/2011	7000	19.18	33026
1FPPOOL	F5H70	1F5	1992/1/10	3/11/2011	7000	19.18	33228
1FPPOOL	F5HN14	1F5	1992/1/10	3/11/2011	7000	19.18	35343
1FPPOOL	F5H49	1F5	1992/1/10	3/11/2011	7000	19.18	29858
1FPPOOL	F5H76	1F5	1992/1/10	3/11/2011	7000	19.18	32099
1FPPOOL	F5H60	1F5	1993/3/3	3/11/2011	6582	18.03	34286
1FPPOOL	F5HN1	1F5	1992/1/10	3/11/2011	7000	19.18	35425
1FPPOOL	F5H61	1F5	1992/1/10	3/11/2011	7000	19.18	29888
1FPPOOL	F5H62	1F5	1992/1/10	3/11/2011	7000	19.18	29879
1FPPOOL	F5H26	1F5	1995/12/15	3/11/2011	5565	15.25	30808
1FPPOOL	F5H67	1F5	1992/1/10	3/11/2011	7000	19.18	32637
1FPPOOL	F5H72	1F5	1992/1/10	3/11/2011	7000	19.18	33262
1FPPOOL	F5HN7	1F5	1992/1/10	3/11/2011	7000	19.18	33631
1FPPOOL	F5HN8	1F5	1992/1/10	3/11/2011	7000	19.18	33652
1FPPOOL	F5H45	1F5	1992/1/10	3/11/2011	7000	19.18	33028
1FPPOOL	F5J48	1F5	1993/3/3	3/11/2011	6582	18.03	24673
1FPPOOL	F5HN13	1F5	1992/1/10	3/11/2011	7000	19.18	35314
1FPPOOL	F5H48	1F5	1992/1/10	3/11/2011	7000	19.18	33008
1FPPOOL	F5HN38	1F5	1992/1/10	3/11/2011	7000	19.18	34453
1FPPOOL	F5H34	1F5	1993/3/3	3/11/2011	6582	18.03	24535
1FPPOOL	F5HN31	1F5	1992/1/10	3/11/2011	7000	19.18	31330
1FPPOOL	F5H40	1F5	1993/3/3	3/11/2011	6582	18.03	26495
1FPPOOL	F5H41	1F5	1992/1/10	3/11/2011	7000	19.18	31177
1FPPOOL	F5H63	1F5	1992/1/10	3/11/2011	7000	19.18	29892
1FPPOOL	F5HN32	1F5	1992/1/10	3/11/2011	7000	19.18	31367
1FPPOOL	F5HN41	1F5	1992/1/10	3/11/2011	7000	19.18	30729
1FPPOOL	F5HN43	1F5	1992/1/10	3/11/2011	7000	19.18	30719
1FPPOOL	F5HN42	1F5	1992/1/10	3/11/2011	7000	19.18	30652
1FPPOOL	F5HN18	1F5	1992/1/10	3/11/2011	7000	19.18	35260
1FPPOOL	F5H57	1F5	1993/3/3	3/11/2011	6582	18.03	34326
1FPPOOL	F5H27	1F5	1994/9/15	3/11/2011	6021	16.50	26659
1FPPOOL	F5H42	1F5	1992/1/10	3/11/2011	7000	19.18	31214
1FPPOOL	F5HN37	1F5	1992/1/10	3/11/2011	7000	19.18	34449
1FPPOOL	F5H25	1F5	1994/9/15	3/11/2011	6021	16.50	26659
1FPPOOL	F5HN40	1F5	1992/1/10	3/11/2011	7000	19.18	34455
1FPPOOL	F5H51	1F5	1992/1/10	3/11/2011	7000	19.18	29852
1FPPOOL	F5HN2	1F5	1992/1/10	3/11/2011	7000	19.18	35399
1FPPOOL	F5HN46	1F5	1992/1/10	3/11/2011	7000	19.18	30423
1FPPOOL	F5HN3	1F5	1992/1/10	3/11/2011	7000	19.18	35431
1FPPOOL	F5HN27	1F5	1992/1/10	3/11/2011	7000	19.18	30581
1FPPOOL	F5HN39	1F5	1992/1/10	3/11/2011	7000	19.18	34468
1FPPOOL	F5H50	1F5	1992/1/10	3/11/2011	7000	19.18	29814
1FPPOOL	F5HN45	1F5	1992/1/10	3/11/2011	7000	19.18	30417
1FPPOOL	F5HN20	1F5	1992/1/10	3/11/2011	7000	19.18	35277

1FPPOOL	F5HN17	1F5	1992/1/10	3/11/2011	7000	19.18	35263
1FPPOOL	F5HN47	1F5	1992/1/10	3/11/2011	7000	19.18	30433
1FPPOOL	F5HN26	1F5	1992/1/10	3/11/2011	7000	19.18	30588
1FPPOOL	F5HN19	1F5	1992/1/10	3/11/2011	7000	19.18	35287
1FPPOOL	F5H30	1F5	1993/3/3	3/11/2011	6582	18.03	31203
1FPPOOL	F5H52	1F5	1992/1/10	3/11/2011	7000	19.18	29804
1FPPOOL	F5H31	1F5	1993/3/3	3/11/2011	6582	18.03	31231
1FPPOOL	F5H56	1F5	1992/1/10	3/11/2011	7000	19.18	34139
1FPPOOL	F5H58	1F5	1993/3/3	3/11/2011	6582	18.03	34295
1FPPOOL	F5HN11	1F5	1992/1/10	3/11/2011	7000	19.18	30163
1FPPOOL	F5HN44	1F5	1992/1/10	3/11/2011	7000	19.18	30655
1FPPOOL	F5HN33	1F5	1992/1/10	3/11/2011	7000	19.18	34849
1FPPOOL	F5H33	1F5	1993/3/3	3/11/2011	6582	18.03	24521
1FPPOOL	F5H59	1F5	1993/3/3	3/11/2011	6582	18.03	34338
1FPPOOL	F5HN4	1F5	1992/1/10	3/11/2011	7000	19.18	35401
1FPPOOL	F5HN36	1F5	1992/1/10	3/11/2011	7000	19.18	34853
1FPPOOL	F5H64	1F5	1992/1/10	3/11/2011	7000	19.18	29882
1FPPOOL	F5J15	1F5	1993/3/3	3/11/2011	6582	18.03	26985
1FPPOOL	F5H24	1F5	1994/9/15	3/11/2011	6021	16.50	25904
1FPPOOL	F5H73	1F5	1992/1/10	3/11/2011	7000	19.18	32063
1FPPOOL	F5HN22	1F5	1992/1/10	3/11/2011	7000	19.18	30114
1FPPOOL	F5HN10	1F5	1992/1/10	3/11/2011	7000	19.18	30147
1FPPOOL	F5H74	1F5	1992/1/10	3/11/2011	7000	19.18	32095
1FPPOOL	F5H47	1F5	1992/1/10	3/11/2011	7000	19.18	33046
1FPPOOL	F5H69	1F5	1992/1/10	3/11/2011	7000	19.18	33224
1FPPOOL	F5HN28	1F5	1992/1/10	3/11/2011	7000	19.18	30603
1FPPOOL	F5HN48	1F5	1992/1/10	3/11/2011	7000	19.18	30409
1FPPOOL	F5HN29	1F5	1992/1/10	3/11/2011	7000	19.18	31328
1FPPOOL	F5H38	1F5	1993/3/3	3/11/2011	6582	18.03	26472
1FPPOOL	F5HN12	1F5	1992/1/10	3/11/2011	7000	19.18	30147
1FPPOOL	F5HN34	1F5	1992/1/10	3/11/2011	7000	19.18	34869
1FPPOOL	F5HN15	1F5	1992/1/10	3/11/2011	7000	19.18	35327
1FPPOOL	F5H29	1F5	1993/3/3	3/11/2011	6582	18.03	31257
1FPPOOL	F5H28	1F5	1995/12/15	3/11/2011	5565	15.25	30957
1FPPOOL	F5H36	1F5	1993/3/3	3/11/2011	6582	18.03	24513
1FPPOOL	F5H66	1F5	1992/1/10	3/11/2011	7000	19.18	32660
1FPPOOL	F5H68	1F5	1992/1/10	3/11/2011	7000	19.18	32670
1FPPOOL	F5H35	1F5	1993/3/3	3/11/2011	6582	18.03	24490
1FPPOOL	F5H54	1F5	1992/1/10	3/11/2011	7000	19.18	34147
1FPPOOL	F5H55	1F5	1992/1/10	3/11/2011	7000	19.18	34146
1FPPOOL	F5HN6	1F5	1992/1/10	3/11/2011	7000	19.18	33642
1FPPOOL	F5H44	1F5	1992/1/10	3/11/2011	7000	19.18	31195
1FPPOOL	F5H53	1F5	1992/1/10	3/11/2011	7000	19.18	34154
1FPPOOL	F5HN21	1F5	1992/1/10	3/11/2011	7000	19.18	30099
1FPPOOL	F5HN5	1F5	1992/1/10	3/11/2011	7000	19.18	33633
1FPPOOL	F5H65	1F5	1992/1/10	3/11/2011	7000	19.18	32625
1FPPOOL	F5HN30	1F5	1992/1/10	3/11/2011	7000	19.18	31354
1FPPOOL	F5H75	1F5	1992/1/10	3/11/2011	7000	19.18	32075
1FPPOOL	F5J34	1F5	1993/3/3	3/11/2011	6582	18.03	28959
1FPPOOL	F5J59	1F5	1997/3/21	3/11/2011	5103	13.98	30479
1FPPOOL	F5J54	1F5	1994/9/15	3/11/2011	6021	16.50	27106
1FPPOOL	F5J65	1F5	1993/3/3	3/11/2011	6582	18.03	33362
1FPPOOL	F5HN59	1F5	1992/1/10	3/11/2011	7000	19.18	30043

1FPPOOL	F5J66	1F5	1993/3/3	3/11/2011	6582	18.03	33390
1FPPOOL	F5HN63	1F5	1992/1/10	3/11/2011	7000	19.18	30490
1FPPOOL	F5J18	1F5	1993/3/3	3/11/2011	6582	18.03	24640
1FPPOOL	F5J1	1F5	1993/3/3	3/11/2011	6582	18.03	27365
1FPPOOL	F5J19	1F5	1993/3/3	3/11/2011	6582	18.03	25016
1FPPOOL	F5J2	1F5	1993/3/3	3/11/2011	6582	18.03	27334
1FPPOOL	F5J70	1F5	1993/3/3	3/11/2011	6582	18.03	29448
1FPPOOL	F5J9	1F5	1993/3/3	3/11/2011	6582	18.03	29542
1FPPOOL	F5J33	1F5	1993/3/3	3/11/2011	6582	18.03	29013
1FPPOOL	F5HN53	1F5	1992/1/10	3/11/2011	7000	19.18	30680
1FPPOOL	F5J12	1F5	1993/3/3	3/11/2011	6582	18.03	29539
1FPPOOL	F5J24	1F5	1994/9/15	3/11/2011	6021	16.50	27532
1FPPOOL	F5J25	1F5	1993/3/3	3/11/2011	6582	18.03	26532
1FPPOOL	F5J30	1F5	1994/9/15	3/11/2011	6021	16.50	27394
1FPPOOL	F5J26	1F5	1993/3/3	3/11/2011	6582	18.03	26721
1FPPOOL	F5J71	1F5	1993/3/3	3/11/2011	6582	18.03	33424
1FPPOOL	F5HN52	1F5	1992/1/10	3/11/2011	7000	19.18	32706
1FPPOOL	F5J72	1F5	1993/3/3	3/11/2011	6582	18.03	33432
1FPPOOL	F5J35	1F5	1993/3/3	3/11/2011	6582	18.03	29011
1FPPOOL	F5J46	1F5	1993/3/3	3/11/2011	6582	18.03	24666
1FPPOOL	F5J8	1F5	1993/3/3	3/11/2011	6582	18.03	26878
1FPPOOL	F5J31	1F5	1994/9/15	3/11/2011	6021	16.50	27713
1FPPOOL	F5J52	1F5	1994/9/15	3/11/2011	6021	16.50	26783
1FPPOOL	F5J74	1F5	1993/3/3	3/11/2011	6582	18.03	33431
1FPPOOL	F5J60	1F5	1997/3/21	3/11/2011	5103	13.98	30512
1FPPOOL	F5J67	1F5	1993/3/3	3/11/2011	6582	18.03	29603
1FPPOOL	F5HN61	1F5	1992/1/10	3/11/2011	7000	19.18	30472
1FPPOOL	F5J3	1F5	1993/3/3	3/11/2011	6582	18.03	27379
1FPPOOL	F5HN51	1F5	1992/1/10	3/11/2011	7000	19.18	32711
1FPPOOL	F5J4	1F5	1993/3/3	3/11/2011	6582	18.03	27330
1FPPOOL	F5J27	1F5	1993/3/3	3/11/2011	6582	18.03	26541
1FPPOOL	F5J77	1F5	1993/3/3	3/11/2011	6582	18.03	33289
1FPPOOL	F5J79	1F5	1993/3/3	3/11/2011	6582	18.03	27919
1FPPOOL	F5J78	1F5	1993/3/3	3/11/2011	6582	18.03	33256
1FPPOOL	F5J56	1F5	1994/9/15	3/11/2011	6021	16.50	27070
1FPPOOL	F5J20	1F5	1993/3/3	3/11/2011	6582	18.03	24649
1FPPOOL	F5J21	1F5	1993/3/3	3/11/2011	6582	18.03	23861
1FPPOOL	F5J73	1F5	1993/3/3	3/11/2011	6582	18.03	33439
1FPPOOL	F5HN54	1F5	1992/1/10	3/11/2011	7000	19.18	30745
1FPPOOL	F5J14	1F5	1993/3/3	3/11/2011	6582	18.03	27007
1FPPOOL	F5J41	1F5	1994/9/15	3/11/2011	6021	16.50	28905
1FPPOOL	F5J42	1F5	1993/3/3	3/11/2011	6582	18.03	24156
1FPPOOL	F5J62	1F5	1995/12/15	3/11/2011	5565	15.25	28108
1FPPOOL	F5J47	1F5	1993/3/3	3/11/2011	6582	18.03	24916
1FPPOOL	F5J75	1F5	1993/3/3	3/11/2011	6582	18.03	33270
1FPPOOL	F5J76	1F5	1993/3/3	3/11/2011	6582	18.03	33257
1FPPOOL	F5J13	1F5	1993/3/3	3/11/2011	6582	18.03	26993
1FPPOOL	F5J81	1F5	1993/3/3	3/11/2011	6582	18.03	27926
1FPPOOL	F5J57	1F5	1997/3/21	3/11/2011	5103	13.98	30480
1FPPOOL	F5J68	1F5	1993/3/3	3/11/2011	6582	18.03	29448
1FPPOOL	F5HN64	1F5	1992/1/10	3/11/2011	7000	19.18	30472
1FPPOOL	F5J55	1F5	1997/3/21	3/11/2011	5103	13.98	31310
1FPPOOL	F5HN50	1F5	1992/1/10	3/11/2011	7000	19.18	32675

1FPPOOL	F5HN57	1F5	1992/1/10	3/11/2011	7000	19.18	30054
1FPPOOL	F5HN58	1F5	1992/1/10	3/11/2011	7000	19.18	30041
1FPPOOL	F5J22	1F5	1994/9/15	3/11/2011	6021	16.50	27531
1FPPOOL	F5J50	1F5	1994/9/15	3/11/2011	6021	16.50	26775
1FPPOOL	F5J80	1F5	1993/3/3	3/11/2011	6582	18.03	27926
1FPPOOL	F5J29	1F5	1994/9/15	3/11/2011	6021	16.50	27707
1FPPOOL	F5J69	1F5	1993/3/3	3/11/2011	6582	18.03	29599
1FPPOOL	F5HN60	1F5	1992/1/10	3/11/2011	7000	19.18	30041
1FPPOOL	F5J16	1F5	1993/3/3	3/11/2011	6582	18.03	27006
1FPPOOL	F5J23	1F5	1994/9/15	3/11/2011	6021	16.50	29288
1FPPOOL	F5J43	1F5	1994/9/15	3/11/2011	6021	16.50	28898
1FPPOOL	F5J28	1F5	1993/3/3	3/11/2011	6582	18.03	26721
1FPPOOL	F5JN14	1F5	1993/3/3	3/11/2011	6582	18.03	33494
1FPPOOL	F5J37	1F5	1993/3/3	3/11/2011	6582	18.03	24966
1FPPOOL	F5J83	1F5	1993/3/3	3/11/2011	6582	18.03	30565
1FPPOOL	F5J36	1F5	1993/3/3	3/11/2011	6582	18.03	28957
1FPPOOL	F5J61	1F5	1995/12/15	3/11/2011	5565	15.25	28095
1FPPOOL	F5J49	1F5	1994/9/15	3/11/2011	6021	16.50	26948
1FPPOOL	F5J82	1F5	1993/3/3	3/11/2011	6582	18.03	27933
1FPPOOL	F5J63	1F5	1993/3/3	3/11/2011	6582	18.03	33375
1FPPOOL	F5J84	1F5	1993/3/3	3/11/2011	6582	18.03	30560
1FPPOOL	F5J64	1F5	1993/3/3	3/11/2011	6582	18.03	33394
1FPPOOL	F5J51	1F5	1994/9/15	3/11/2011	6021	16.50	26927
1FPPOOL	F5J53	1F5	1997/3/21	3/11/2011	5103	13.98	31423
1FPPOOL	F5J5	1F5	1993/3/3	3/11/2011	6582	18.03	26925
1FPPOOL	F5J32	1F5	1994/9/15	3/11/2011	6021	16.50	29291
1FPPOOL	F5J58	1F5	1997/3/21	3/11/2011	5103	13.98	30827
1FPPOOL	F5HN55	1F5	1992/1/10	3/11/2011	7000	19.18	30679
1FPPOOL	F5HN56	1F5	1992/1/10	3/11/2011	7000	19.18	30759
1FPPOOL	F5HN62	1F5	1992/1/10	3/11/2011	7000	19.18	30485
1FPPOOL	F5J6	1F5	1993/3/3	3/11/2011	6582	18.03	26897
1FPPOOL	F5HN49	1F5	1992/1/10	3/11/2011	7000	19.18	32691
1FPPOOL	F5J7	1F5	1993/3/3	3/11/2011	6582	18.03	26906
1FPPOOL	F5J17	1F5	1993/3/3	3/11/2011	6582	18.03	25022
1FPPOOL	F5J39	1F5	1993/3/3	3/11/2011	6582	18.03	24967
1FPPOOL	F5J44	1F5	1993/3/3	3/11/2011	6582	18.03	24155
1FPPOOL	F5J40	1F5	1993/3/3	3/11/2011	6582	18.03	24850
1FPPOOL	F5J45	1F5	1993/3/3	3/11/2011	6582	18.03	24916
1FPPOOL	F5J10	1F5	1993/3/3	3/11/2011	6582	18.03	29534
1FPPOOL	F5J11	1F5	1993/3/3	3/11/2011	6582	18.03	29541
1FPPOOL	F5J38	1F5	1993/3/3	3/11/2011	6582	18.03	24844
1FPPOOL	F5JN34	1F5	1995/12/15	3/11/2011	5565	15.25	29956
1FPPOOL	F5J96	1F5	1993/3/3	3/11/2011	6582	18.03	32293
1FPPOOL	F5JN49	1F5	1993/3/3	3/11/2011	6582	18.03	31821
1FPPOOL	F5JN1	1F5	1993/3/3	3/11/2011	6582	18.03	33033
1FPPOOL	F5JN52	1F5	1993/3/3	3/11/2011	6582	18.03	31864
1FPPOOL	F5JN53	1F5	1993/3/3	3/11/2011	6582	18.03	32486
1FPPOOL	F5JN17	1F5	1993/3/3	3/11/2011	6582	18.03	25234
1FPPOOL	F5JN18	1F5	1993/3/3	3/11/2011	6582	18.03	25247
1FPPOOL	F5JN68	1F5	1995/12/15	3/11/2011	5565	15.25	29394
1FPPOOL	F5J101	1F5	1993/3/3	3/11/2011	6582	18.03	31890
1FPPOOL	F5JN8	1F5	1993/3/3	3/11/2011	6582	18.03	27371
1FPPOOL	F5JN50	1F5	1993/3/3	3/11/2011	6582	18.03	31866

1FPPOOL	F5JN11	1F5	1993/3/3	3/11/2011	6582	18.03	33542
1FPPOOL	F5JN24	1F5	1993/3/3	3/11/2011	6582	18.03	32293
1FPPOOL	F5JN25	1F5	1993/3/3	3/11/2011	6582	18.03	29765
1FPPOOL	F5JN31	1F5	1993/3/3	3/11/2011	6582	18.03	24965
1FPPOOL	F5J89	1F5	1993/3/3	3/11/2011	6582	18.03	33020
1FPPOOL	F5JN35	1F5	1994/9/15	3/11/2011	6021	16.50	27370
1FPPOOL	F5JN59	1F5	1993/3/3	3/11/2011	6582	18.03	32584
1FPPOOL	F5JN65	1F5	1995/12/15	3/11/2011	5565	15.25	30171
1FPPOOL	F5JN7	1F5	1993/3/3	3/11/2011	6582	18.03	27382
1FPPOOL	F5JN46	1F5	1995/12/15	3/11/2011	5565	15.25	30990
1FPPOOL	F5KN27	1F5	1994/9/15	3/11/2011	6021	16.50	31947
1FPPOOL	F5JN32	1F5	1993/3/3	3/11/2011	6582	18.03	25022
1FPPOOL	F5JN54	1F5	1993/3/3	3/11/2011	6582	18.03	32537
1FPPOOL	F5JN61	1F5	1993/3/3	3/11/2011	6582	18.03	31323
1FPPOOL	F5J98	1F5	1993/3/3	3/11/2011	6582	18.03	32287
1FPPOOL	F5JN62	1F5	1993/3/3	3/11/2011	6582	18.03	31267
1FPPOOL	F5JN66	1F5	1995/12/15	3/11/2011	5565	15.25	29563
1FPPOOL	F5JN70	1F5	1997/3/21	3/11/2011	5103	13.98	32069
1FPPOOL	F5K1	1F5	1994/9/15	3/11/2011	6021	16.50	29695
1FPPOOL	F5K4	1F5	1994/9/15	3/11/2011	6021	16.50	29784
1FPPOOL	F5JN2	1F5	1993/3/3	3/11/2011	6582	18.03	33028
1FPPOOL	F5JN3	1F5	1993/3/3	3/11/2011	6582	18.03	33029
1FPPOOL	F5K5	1F5	1994/9/15	3/11/2011	6021	16.50	29731
1FPPOOL	F5J88	1F5	1993/3/3	3/11/2011	6582	18.03	33048
1FPPOOL	F5JN19	1F5	1993/3/3	3/11/2011	6582	18.03	25215
1FPPOOL	F5JN13	1F5	1993/3/3	3/11/2011	6582	18.03	33493
1FPPOOL	F5JN20	1F5	1993/3/3	3/11/2011	6582	18.03	25267
1FPPOOL	F5JN40	1F5	1993/3/3	3/11/2011	6582	18.03	33136
1FPPOOL	F5JN26	1F5	1993/3/3	3/11/2011	6582	18.03	29754
1FPPOOL	F5JN21	1F5	1993/3/3	3/11/2011	6582	18.03	32289
1FPPOOL	F5JN41	1F5	1993/3/3	3/11/2011	6582	18.03	28511
1FPPOOL	F5K6	1F5	1994/9/15	3/11/2011	6021	16.50	29657
1FPPOOL	F5J87	1F5	1993/3/3	3/11/2011	6582	18.03	33036
1FPPOOL	F5K7	1F5	1994/9/15	3/11/2011	6021	16.50	29721
1FPPOOL	F5JN27	1F5	1993/3/3	3/11/2011	6582	18.03	29754
1FPPOOL	F5K2	1F5	1994/9/15	3/11/2011	6021	16.50	29770
1FPPOOL	F5JN47	1F5	1995/12/15	3/11/2011	5565	15.25	29451
1FPPOOL	F5K3	1F5	1994/9/15	3/11/2011	6021	16.50	29690
1FPPOOL	F5JN12	1F5	1993/3/3	3/11/2011	6582	18.03	33557
1FPPOOL	F5JN56	1F5	1993/3/3	3/11/2011	6582	18.03	32512
1FPPOOL	F5JN58	1F5	1993/3/3	3/11/2011	6582	18.03	32571
1FPPOOL	F5JN64	1F5	1993/3/3	3/11/2011	6582	18.03	31260
1FPPOOL	F5JN67	1F5	1995/12/15	3/11/2011	5565	15.25	30189
1FPPOOL	F5JN57	1F5	1993/3/3	3/11/2011	6582	18.03	32581
1FPPOOL	F5JN63	1F5	1993/3/3	3/11/2011	6582	18.03	31304
1FPPOOL	F5JN55	1F5	1993/3/3	3/11/2011	6582	18.03	32513
1FPPOOL	F5J94	1F5	1993/3/3	3/11/2011	6582	18.03	33374
1FPPOOL	F5J95	1F5	1993/3/3	3/11/2011	6582	18.03	32322
1FPPOOL	F5J90	1F5	1993/3/3	3/11/2011	6582	18.03	33022
1FPPOOL	F5J97	1F5	1993/3/3	3/11/2011	6582	18.03	32315
1FPPOOL	F5J91	1F5	1993/3/3	3/11/2011	6582	18.03	33351
1FPPOOL	F5JN15	1F5	1993/3/3	3/11/2011	6582	18.03	33485
1FPPOOL	F5JN16	1F5	1993/3/3	3/11/2011	6582	18.03	33533

1FPPOOL	F5JN69	1F5	1997/3/21	3/11/2011	5103	13.98	30045
1FPPOOL	F5JN28	1F5	1993/3/3	3/11/2011	6582	18.03	29760
1FPPOOL	F5JN36	1F5	1995/12/15	3/11/2011	5565	15.25	29946
1FPPOOL	F5K9	1F5	1995/12/15	3/11/2011	5565	15.25	27944
1FPPOOL	F5JN43	1F5	1993/3/3	3/11/2011	6582	18.03	28487
1FPPOOL	F5K8	1F5	1994/9/15	3/11/2011	6021	16.50	29645
1FPPOOL	F5JN42	1F5	1993/3/3	3/11/2011	6582	18.03	28429
1FPPOOL	F5J102	1F5	1993/3/3	3/11/2011	6582	18.03	31887
1FPPOOL	F5JN51	1F5	1993/3/3	3/11/2011	6582	18.03	31833
1FPPOOL	F5JN33	1F5	1994/9/15	3/11/2011	6021	16.50	27360
1FPPOOL	F5K10	1F5	1995/12/15	3/11/2011	5565	15.25	27865
1FPPOOL	F5J92	1F5	1993/3/3	3/11/2011	6582	18.03	33353
1FPPOOL	F5J100	1F5	1993/3/3	3/11/2011	6582	18.03	31875
1FPPOOL	F5JN22	1F5	1993/3/3	3/11/2011	6582	18.03	32311
1FPPOOL	F5JN4	1F5	1993/3/3	3/11/2011	6582	18.03	33027
1FPPOOL	F5JN23	1F5	1993/3/3	3/11/2011	6582	18.03	32279
1FPPOOL	F5JN30	1F5	1993/3/3	3/11/2011	6582	18.03	25034
1FPPOOL	F5JN48	1F5	1995/12/15	3/11/2011	5565	15.25	30189
1FPPOOL	F5J93	1F5	1993/3/3	3/11/2011	6582	18.03	33359
1FPPOOL	F5J99	1F5	1993/3/3	3/11/2011	6582	18.03	31898
1FPPOOL	F5J86	1F5	1993/3/3	3/11/2011	6582	18.03	30555
1FPPOOL	F5JN5	1F5	1993/3/3	3/11/2011	6582	18.03	27368
1FPPOOL	F5J85	1F5	1993/3/3	3/11/2011	6582	18.03	30549
1FPPOOL	F5JN6	1F5	1993/3/3	3/11/2011	6582	18.03	27380
1FPPOOL	F5JN38	1F5	1993/3/3	3/11/2011	6582	18.03	33122
1FPPOOL	F5JN44	1F5	1993/3/3	3/11/2011	6582	18.03	28435
1FPPOOL	F5JN39	1F5	1993/3/3	3/11/2011	6582	18.03	33134
1FPPOOL	F5JN60	1F5	1993/3/3	3/11/2011	6582	18.03	32523
1FPPOOL	F5JN29	1F5	1993/3/3	3/11/2011	6582	18.03	24974
1FPPOOL	F5JN45	1F5	1995/12/15	3/11/2011	5565	15.25	29544
1FPPOOL	F5JN9	1F5	1993/3/3	3/11/2011	6582	18.03	33557
1FPPOOL	F5JN10	1F5	1993/3/3	3/11/2011	6582	18.03	33525
1FPPOOL	F5JN37	1F5	1993/3/3	3/11/2011	6582	18.03	33130
1FPPOOL	F5KN41	1F5	1997/3/21	3/11/2011	5103	13.98	32364
1FPPOOL	F5KN45	1F5	1995/12/15	3/11/2011	5565	15.25	29632
1FPPOOL	F5KN34	1F5	1994/9/15	3/11/2011	6021	16.50	29718
1FPPOOL	F5K19	1F5	1995/12/15	3/11/2011	5565	15.25	29281
1FPPOOL	F5K20	1F5	1995/12/15	3/11/2011	5565	15.25	29105
1FPPOOL	F5K25	1F5	1997/3/21	3/11/2011	5103	13.98	35212
1FPPOOL	F5K26	1F5	1997/3/21	3/11/2011	5103	13.98	35216
1FPPOOL	F5KN49	1F5	1994/9/15	3/11/2011	6021	16.50	33090
1FPPOOL	F5K31	1F5	1997/3/21	3/11/2011	5103	13.98	35238
1FPPOOL	F5KN9	1F5	1994/9/15	3/11/2011	6021	16.50	32547
1FPPOOL	F5KN32	1F5	1994/9/15	3/11/2011	6021	16.50	26874
1FPPOOL	F5K14	1F5	1995/12/15	3/11/2011	5565	15.25	27767
1FPPOOL	F5K33	1F5	1997/3/21	3/11/2011	5103	13.98	35281
1FPPOOL	F5KN3	1F5	1994/9/15	3/11/2011	6021	16.50	33181
1FPPOOL	F5KN4	1F5	1994/9/15	3/11/2011	6021	16.50	33162
1FPPOOL	F5KN50	1F5	1994/9/15	3/11/2011	6021	16.50	33033
1FPPOOL	F5K13	1F5	1995/12/15	3/11/2011	5565	15.25	27664
1FPPOOL	F5KN19	1F5	1994/9/15	3/11/2011	6021	16.50	32009
1FPPOOL	F5KN25	1F5	1994/9/15	3/11/2011	6021	16.50	31967
1FPPOOL	F5KN26	1F5	1994/9/15	3/11/2011	6021	16.50	29712

1FPPOOL	F5K30	1F5	1997/3/21	3/11/2011	5103	13.98	35386
1FPPOOL	F5KN119	1F5	1994/9/15	3/11/2011	6021	16.50	31385
1FPPOOL	F5KN10	1F5	1994/9/15	3/11/2011	6021	16.50	32542
1FPPOOL	F5KN31	1F5	1994/9/15	3/11/2011	6021	16.50	29714
1FPPOOL	F5KN15	1F5	1994/9/15	3/11/2011	6021	16.50	33007
1FPPOOL	F5K21	1F5	1995/12/15	3/11/2011	5565	15.25	29291
1FPPOOL	F5KN42	1F5	1997/3/21	3/11/2011	5103	13.98	32370
1FPPOOL	F5KN46	1F5	1995/12/15	3/11/2011	5565	15.25	29073
1FPPOOL	F5KN51	1F5	1994/9/15	3/11/2011	6021	16.50	33104
1FPPOOL	F5KN14	1F5	1994/9/15	3/11/2011	6021	16.50	33063
1FPPOOL	F5KN38	1F5	1994/9/15	3/11/2011	6021	16.50	32409
1FPPOOL	F5K27	1F5	1997/3/21	3/11/2011	5103	13.98	35351
1FPPOOL	F5KN47	1F5	1995/12/15	3/11/2011	5565	15.25	29305
1FPPOOL	F5KN53	1F5	1995/12/15	3/11/2011	5565	15.25	29048
1FPPOOL	F5KN56	1F5	1995/12/15	3/11/2011	5565	15.25	29490
1FPPOOL	F5KN54	1F5	1995/12/15	3/11/2011	5565	15.25	30032
1FPPOOL	F5KN36	1F5	1994/9/15	3/11/2011	6021	16.50	29720
1FPPOOL	F5KN20	1F5	1994/9/15	3/11/2011	6021	16.50	32533
1FPPOOL	F5KN21	1F5	1994/9/15	3/11/2011	6021	16.50	32492
1FPPOOL	F5KN5	1F5	1994/9/15	3/11/2011	6021	16.50	30583
1FPPOOL	F5KN55	1F5	1995/12/15	3/11/2011	5565	15.25	29153
1FPPOOL	F5K12	1F5	1995/12/15	3/11/2011	5565	15.25	27598
1FPPOOL	F5KN16	1F5	1994/9/15	3/11/2011	6021	16.50	33068
1FPPOOL	F5KN43	1F5	1995/12/15	3/11/2011	5565	15.25	27923
1FPPOOL	F5KN52	1F5	1994/9/15	3/11/2011	6021	16.50	33052
1FPPOOL	F5K34	1F5	1997/3/21	3/11/2011	5103	13.98	35341
1FPPOOL	F5KN58	1F5	1994/9/15	3/11/2011	6021	16.50	30401
1FPPOOL	F5KN35	1F5	1994/9/15	3/11/2011	6021	16.50	31992
1FPPOOL	F5KN48	1F5	1995/12/15	3/11/2011	5565	15.25	29020
1FPPOOL	F5KN60	1F5	1994/9/15	3/11/2011	6021	16.50	30415
1FPPOOL	F5K17	1F5	1995/12/15	3/11/2011	5565	15.25	29527
1FPPOOL	F5K18	1F5	1995/12/15	3/11/2011	5565	15.25	29527
1FPPOOL	F5K24	1F5	1995/12/15	3/11/2011	5565	15.25	29589
1FPPOOL	F5KN29	1F5	1994/9/15	3/11/2011	6021	16.50	29717
1FPPOOL	F5KN57	1F5	1994/9/15	3/11/2011	6021	16.50	32408
1FPPOOL	F5KN37	1F5	1994/9/15	3/11/2011	6021	16.50	30416
1FPPOOL	F5KN1	1F5	1994/9/15	3/11/2011	6021	16.50	33190
1FPPOOL	F5KN6	1F5	1994/9/15	3/11/2011	6021	16.50	30608
1FPPOOL	F5K15	1F5	1995/12/15	3/11/2011	5565	15.25	27485
1FPPOOL	F5KN22	1F5	1994/9/15	3/11/2011	6021	16.50	31983
1FPPOOL	F5KN23	1F5	1994/9/15	3/11/2011	6021	16.50	32488
1FPPOOL	F5KN28	1F5	1994/9/15	3/11/2011	6021	16.50	29697
1FPPOOL	F5KN7	1F5	1994/9/15	3/11/2011	6021	16.50	30616
1FPPOOL	F5KN59	1F5	1994/9/15	3/11/2011	6021	16.50	32354
1FPPOOL	F5KN40	1F5	1994/9/15	3/11/2011	6021	16.50	32338
1FPPOOL	F5KN44	1F5	1995/12/15	3/11/2011	5565	15.25	27948
1FPPOOL	F5KN61	1F5	1994/9/15	3/11/2011	6021	16.50	29718
1FPPOOL	F5KN30	1F5	1994/9/15	3/11/2011	6021	16.50	26885
1FPPOOL	F5KN33	1F5	1994/9/15	3/11/2011	6021	16.50	31970
1FPPOOL	F5K28	1F5	1997/3/21	3/11/2011	5103	13.98	35296
1FPPOOL	F5KN12	1F5	1994/9/15	3/11/2011	6021	16.50	32533
1FPPOOL	F5KN39	1F5	1994/9/15	3/11/2011	6021	16.50	30405
1FPPOOL	F5K16	1F5	1995/12/15	3/11/2011	5565	15.25	27604

1FPPOOL	F5K23	1F5	1995/12/15	3/11/2011	5565	15.25	29661
1FPPOOL	F5KN2	1F5	1994/9/15	3/11/2011	6021	16.50	33189
1FPPOOL	F5KN11	1F5	1994/9/15	3/11/2011	6021	16.50	32529
1FPPOOL	F5K22	1F5	1995/12/15	3/11/2011	5565	15.25	29182
1FPPOOL	F5K11	1F5	1995/12/15	3/11/2011	5565	15.25	27883
1FPPOOL	F5K29	1F5	1997/3/21	3/11/2011	5103	13.98	35365
1FPPOOL	F5KN24	1F5	1994/9/15	3/11/2011	6021	16.50	31972
1FPPOOL	F5KN18	1F5	1994/9/15	3/11/2011	6021	16.50	32521
1FPPOOL	F5KN8	1F5	1994/9/15	3/11/2011	6021	16.50	30603
1FPPOOL	F5K32	1F5	1997/3/21	3/11/2011	5103	13.98	35225
1FPPOOL	F5KN17	1F5	1994/9/15	3/11/2011	6021	16.50	31977
1FPPOOL	F5KN13	1F5	1994/9/15	3/11/2011	6021	16.50	33001
1FPPOOL	F5KN129	1F5	1994/9/15	3/11/2011	6021	16.50	27503
1FPPOOL	F5KN130	1F5	1994/9/15	3/11/2011	6021	16.50	27544
1FPPOOL	F5KN122	1F5	1997/3/21	3/11/2011	5103	13.98	30182
1FPPOOL	F5KN124	1F5	1997/3/21	3/11/2011	5103	13.98	30029
1FPPOOL	F5KN71	1F5	1995/12/15	3/11/2011	5565	15.25	29279
1FPPOOL	F5KN77	1F5	1994/9/15	3/11/2011	6021	16.50	33263
1FPPOOL	F5KN78	1F5	1994/9/15	3/11/2011	6021	16.50	33243
1FPPOOL	F5KN140	1F5	1994/9/15	3/11/2011	6021	16.50	28821
1FPPOOL	F5KN103	1F5	1995/12/15	3/11/2011	5565	15.25	29209
1FPPOOL	F5KN106	1F5	1994/9/15	3/11/2011	6021	16.50	31330
1FPPOOL	F5KN66	1F5	1994/9/15	3/11/2011	6021	16.50	27031
1FPPOOL	F5KN93	1F5	1994/9/15	3/11/2011	6021	16.50	27053
1FPPOOL	F5KN87	1F5	1994/9/15	3/11/2011	6021	16.50	30242
1FPPOOL	F5KN99	1F5	1995/12/15	3/11/2011	5565	15.25	32178
1FPPOOL	F5KN141	1F5	1994/9/15	3/11/2011	6021	16.50	28728
1FPPOOL	F5KN83	1F5	1994/9/15	3/11/2011	6021	16.50	33036
1FPPOOL	F5KN65	1F5	1994/9/15	3/11/2011	6021	16.50	27081
1FPPOOL	F5KN111	1F5	1995/12/15	3/11/2011	5565	15.25	28106
1FPPOOL	F5KN112	1F5	1994/9/15	3/11/2011	6021	16.50	30842
1FPPOOL	F5KN117	1F5	1994/9/15	3/11/2011	6021	16.50	31351
1FPPOOL	F5KN118	1F5	1994/9/15	3/11/2011	6021	16.50	31304
1FPPOOL	F5KN135	1F5	1994/9/15	3/11/2011	6021	16.50	27503
1FPPOOL	F5KN104	1F5	1995/12/15	3/11/2011	5565	15.25	32283
1FPPOOL	F5KN108	1F5	1994/9/15	3/11/2011	6021	16.50	31346
1FPPOOL	F5KN131	1F5	1994/9/15	3/11/2011	6021	16.50	27513
1FPPOOL	F5KN73	1F5	1994/9/15	3/11/2011	6021	16.50	30462
1FPPOOL	F5KN72	1F5	1994/9/15	3/11/2011	6021	16.50	30556
1FPPOOL	F5KN137	1F5	1994/9/15	3/11/2011	6021	16.50	28739
1FPPOOL	F5KN143	1F5	1994/9/15	3/11/2011	6021	16.50	28729
1FPPOOL	F5KN144	1F5	1994/9/15	3/11/2011	6021	16.50	28639
1FPPOOL	F5KN107	1F5	1995/12/15	3/11/2011	5565	15.25	28893
1FPPOOL	F5KN151	1F5	1994/9/15	3/11/2011	6021	16.50	30293
1FPPOOL	F5KN64	1F5	1994/9/15	3/11/2011	6021	16.50	32012
1FPPOOL	F5KN146	1F5	1994/9/15	3/11/2011	6021	16.50	31154
1FPPOOL	F5KN95	1F5	1994/9/15	3/11/2011	6021	16.50	27034
1FPPOOL	F5KN138	1F5	1994/9/15	3/11/2011	6021	16.50	28832
1FPPOOL	F5KN125	1F5	1997/3/21	3/11/2011	5103	13.98	30139
1FPPOOL	F5LN19	1F5	1997/3/21	3/11/2011	5103	13.98	32157
1FPPOOL	F5KN142	1F5	1994/9/15	3/11/2011	6021	16.50	28640
1FPPOOL	F5KN100	1F5	1995/12/15	3/11/2011	5565	15.25	33549
1FPPOOL	F5KN67	1F5	1994/9/15	3/11/2011	6021	16.50	27097

1FPPOOL	F5KN145	1F5	1995/12/15	3/11/2011	5565	15.25	28871
1FPPOOL	F5KN89	1F5	1994/9/15	3/11/2011	6021	16.50	30584
1FPPOOL	F5KN113	1F5	1994/9/15	3/11/2011	6021	16.50	30874
1FPPOOL	F5KN150	1F5	1994/9/15	3/11/2011	6021	16.50	30350
1FPPOOL	F5KN88	1F5	1994/9/15	3/11/2011	6021	16.50	30217
1FPPOOL	F5KN148	1F5	1994/9/15	3/11/2011	6021	16.50	31160
1FPPOOL	F5KN126	1F5	1997/3/21	3/11/2011	5103	13.98	32204
1FPPOOL	F5KN133	1F5	1994/9/15	3/11/2011	6021	16.50	27545
1FPPOOL	F5KN70	1F5	1994/9/15	3/11/2011	6021	16.50	30629
1FPPOOL	F5KN147	1F5	1995/12/15	3/11/2011	5565	15.25	29802
1FPPOOL	F5KN139	1F5	1994/9/15	3/11/2011	6021	16.50	28749
1FPPOOL	F5KN127	1F5	1995/12/15	3/11/2011	5565	15.25	30716
1FPPOOL	F5KN132	1F5	1994/9/15	3/11/2011	6021	16.50	27545
1FPPOOL	F5KN90	1F5	1994/9/15	3/11/2011	6021	16.50	26678
1FPPOOL	F5KN94	1F5	1994/9/15	3/11/2011	6021	16.50	27081
1FPPOOL	F5KN79	1F5	1994/9/15	3/11/2011	6021	16.50	33305
1FPPOOL	F5KN152	1F5	1994/9/15	3/11/2011	6021	16.50	30371
1FPPOOL	F5KN76	1F5	1994/9/15	3/11/2011	6021	16.50	30401
1FPPOOL	F5KN96	1F5	1994/9/15	3/11/2011	6021	16.50	27069
1FPPOOL	F5KN101	1F5	1995/12/15	3/11/2011	5565	15.25	29159
1FPPOOL	F5KN109	1F5	1995/12/15	3/11/2011	5565	15.25	28058
1FPPOOL	F5KN128	1F5	1995/12/15	3/11/2011	5565	15.25	30702
1FPPOOL	F5KN115	1F5	1994/9/15	3/11/2011	6021	16.50	30893
1FPPOOL	F5KN120	1F5	1994/9/15	3/11/2011	6021	16.50	31289
1FPPOOL	F5KN149	1F5	1994/9/15	3/11/2011	6021	16.50	30292
1FPPOOL	F5KN114	1F5	1995/12/15	3/11/2011	5565	15.25	28089
1FPPOOL	F5KN134	1F5	1994/9/15	3/11/2011	6021	16.50	27487
1FPPOOL	F5KN121	1F5	1995/12/15	3/11/2011	5565	15.25	27974
1FPPOOL	F5KN123	1F5	1997/3/21	3/11/2011	5103	13.98	32262
1FPPOOL	F5KN105	1F5	1995/12/15	3/11/2011	5565	15.25	28852
1FPPOOL	F5KN153	1F5	1994/9/15	3/11/2011	6021	16.50	30211
1FPPOOL	F5KN68	1F5	1994/9/15	3/11/2011	6021	16.50	27032
1FPPOOL	F5KN75	1F5	1994/9/15	3/11/2011	6021	16.50	30426
1FPPOOL	F5KN80	1F5	1994/9/15	3/11/2011	6021	16.50	33248
1FPPOOL	F5KN69	1F5	1995/12/15	3/11/2011	5565	15.25	29278
1FPPOOL	F5KN74	1F5	1994/9/15	3/11/2011	6021	16.50	30385
1FPPOOL	F5KN92	1F5	1994/9/15	3/11/2011	6021	16.50	26687
1FPPOOL	F5KN97	1F5	1995/12/15	3/11/2011	5565	15.25	32192
1FPPOOL	F5KN98	1F5	1995/12/15	3/11/2011	5565	15.25	30675
1FPPOOL	F5KN82	1F5	1994/9/15	3/11/2011	6021	16.50	32982
1FPPOOL	F5KN81	1F5	1994/9/15	3/11/2011	6021	16.50	33048
1FPPOOL	F5KN62	1F5	1994/9/15	3/11/2011	6021	16.50	32054
1FPPOOL	F5KN63	1F5	1994/9/15	3/11/2011	6021	16.50	29687
1FPPOOL	F5KN91	1F5	1994/9/15	3/11/2011	6021	16.50	30577
1FPPOOL	F5KN116	1F5	1995/12/15	3/11/2011	5565	15.25	28073
1FPPOOL	F5KN102	1F5	1995/12/15	3/11/2011	5565	15.25	32257
1FPPOOL	F5KN136	1F5	1994/9/15	3/11/2011	6021	16.50	27468
1FPPOOL	F5KN85	1F5	1994/9/15	3/11/2011	6021	16.50	30268
1FPPOOL	F5KN84	1F5	1994/9/15	3/11/2011	6021	16.50	33018
1FPPOOL	F5KN86	1F5	1994/9/15	3/11/2011	6021	16.50	30224
1FPPOOL	F5KN110	1F5	1994/9/15	3/11/2011	6021	16.50	30871
1FPPOOL	F5L34	1F5	1997/3/21	3/11/2011	5103	13.98	30106
1FPPOOL	F5L35	1F5	1997/3/21	3/11/2011	5103	13.98	31994

1FPPOOL	F5LN15	1F5	1995/12/15	3/11/2011	5565	15.25	30311
1FPPOOL	F5LN33	1F5	1995/12/15	3/11/2011	5565	15.25	31409
1FPPOOL	F5KN157	1F5	1994/9/15	3/11/2011	6021	16.50	31201
1FPPOOL	F5L3	1F5	1995/12/15	3/11/2011	5565	15.25	28475
1FPPOOL	F5KN161	1F5	1994/9/15	3/11/2011	6021	16.50	26608
1FPPOOL	F5L4	1F5	1995/12/15	3/11/2011	5565	15.25	28415
1FPPOOL	F5L11	1F5	1995/12/15	3/11/2011	5565	15.25	29732
1FPPOOL	F5LN2	1F5	1995/12/15	3/11/2011	5565	15.25	30664
1FPPOOL	F5L14	1F5	1995/12/15	3/11/2011	5565	15.25	29735
1FPPOOL	F5LN8	1F5	1995/12/15	3/11/2011	5565	15.25	30527
1FPPOOL	F5LN9	1F5	1995/12/15	3/11/2011	5565	15.25	30464
1FPPOOL	F5L10	1F5	1995/12/15	3/11/2011	5565	15.25	29623
1FPPOOL	F5L13	1F5	1995/12/15	3/11/2011	5565	15.25	29779
1FPPOOL	F5LN36	1F5	1995/12/15	3/11/2011	5565	15.25	31427
1FPPOOL	F5LN37	1F5	1995/12/15	3/11/2011	5565	15.25	28619
1FPPOOL	F5L5	1F5	1995/12/15	3/11/2011	5565	15.25	28031
1FPPOOL	F5LN46	1F5	1995/12/15	3/11/2011	5565	15.25	30142
1FPPOOL	F5L6	1F5	1995/12/15	3/11/2011	5565	15.25	28091
1FPPOOL	F5LN41	1F5	1995/12/15	3/11/2011	5565	15.25	30956
1FPPOOL	F5LN39	1F5	1995/12/15	3/11/2011	5565	15.25	30186
1FPPOOL	F5LN40	1F5	1995/12/15	3/11/2011	5565	15.25	30170
1FPPOOL	F5KN156	1F5	1994/9/15	3/11/2011	6021	16.50	30177
1FPPOOL	F5KN158	1F5	1995/12/15	3/11/2011	5565	15.25	28892
1FPPOOL	F5LN35	1F5	1995/12/15	3/11/2011	5565	15.25	31428
1FPPOOL	F5KN155	1F5	1994/9/15	3/11/2011	6021	16.50	30203
1FPPOOL	F5LN38	1F5	1995/12/15	3/11/2011	5565	15.25	28562
1FPPOOL	F5L16	1F5	1997/3/21	3/11/2011	5103	13.98	30716
1FPPOOL	F5LN3	1F5	1995/12/15	3/11/2011	5565	15.25	30694
1FPPOOL	F5LN4	1F5	1995/12/15	3/11/2011	5565	15.25	30686
1FPPOOL	F5LN10	1F5	1995/12/15	3/11/2011	5565	15.25	30191
1FPPOOL	F5LN12	1F5	1995/12/15	3/11/2011	5565	15.25	30207
1FPPOOL	F5L15	1F5	1997/3/21	3/11/2011	5103	13.98	30714
1FPPOOL	F5LN43	1F5	1995/12/15	3/11/2011	5565	15.25	30914
1FPPOOL	F5LN20	1F5	1997/3/21	3/11/2011	5103	13.98	32840
1FPPOOL	F5LN26	1F5	1995/12/15	3/11/2011	5565	15.25	30392
1FPPOOL	F5LN31	1F5	1995/12/15	3/11/2011	5565	15.25	28566
1FPPOOL	F5L2	1F5	1995/12/15	3/11/2011	5565	15.25	28174
1FPPOOL	F5LN21	1F5	1995/12/15	3/11/2011	5565	15.25	30339
1FPPOOL	F5KN159	1F5	1994/9/15	3/11/2011	6021	16.50	31205
1FPPOOL	F5LN18	1F5	1997/3/21	3/11/2011	5103	13.98	32142
1FPPOOL	F5LN42	1F5	1995/12/15	3/11/2011	5565	15.25	30845
1FPPOOL	F5KN163	1F5	1995/12/15	3/11/2011	5565	15.25	29372
1FPPOOL	F5L17	1F5	1997/3/21	3/11/2011	5103	13.98	30697
1FPPOOL	F5LN34	1F5	1995/12/15	3/11/2011	5565	15.25	31392
1FPPOOL	F5LN71	1F5	1997/3/21	3/11/2011	5103	13.98	30621
1FPPOOL	F5LN45	1F5	1995/12/15	3/11/2011	5565	15.25	30181
1FPPOOL	F5L36	1F5	1997/3/21	3/11/2011	5103	13.98	31957
1FPPOOL	F5LN22	1F5	1995/12/15	3/11/2011	5565	15.25	30301
1FPPOOL	F5LN6	1F5	1995/12/15	3/11/2011	5565	15.25	30703
1FPPOOL	F5LN25	1F5	1995/12/15	3/11/2011	5565	15.25	30396
1FPPOOL	F5LN11	1F5	1995/12/15	3/11/2011	5565	15.25	30444
1FPPOOL	F5LN44	1F5	1995/12/15	3/11/2011	5565	15.25	30860
1FPPOOL	F5L37	1F5	1997/3/21	3/11/2011	5103	13.98	31990

1FPPOOL	F5LN5	1F5	1995/12/15	3/11/2011	5565	15.25	30718
1FPPOOL	F5L32	1F5	1997/3/21	3/11/2011	5103	13.98	30162
1FPPOOL	F5LN27	1F5	1995/12/15	3/11/2011	5565	15.25	30379
1FPPOOL	F5LN28	1F5	1995/12/15	3/11/2011	5565	15.25	30376
1FPPOOL	F5LN13	1F5	1995/12/15	3/11/2011	5565	15.25	30544
1FPPOOL	F5LN14	1F5	1995/12/15	3/11/2011	5565	15.25	30512
1FPPOOL	F5LN32	1F5	1995/12/15	3/11/2011	5565	15.25	28532
1FPPOOL	F5L7	1F5	1995/12/15	3/11/2011	5565	15.25	29805
1FPPOOL	F5LN16	1F5	1995/12/15	3/11/2011	5565	15.25	30326
1FPPOOL	F5KN162	1F5	1997/3/21	3/11/2011	5103	13.98	30582
1FPPOOL	F5L1	1F5	1995/12/15	3/11/2011	5565	15.25	28431
1FPPOOL	F5KN160	1F5	1995/12/15	3/11/2011	5565	15.25	28871
1FPPOOL	F5KN164	1F5	1997/3/21	3/11/2011	5103	13.98	30549
1FPPOOL	F5KN154	1F5	1994/9/15	3/11/2011	6021	16.50	30191
1FPPOOL	F5L8	1F5	1995/12/15	3/11/2011	5565	15.25	29771
1FPPOOL	F5L18	1F5	1997/3/21	3/11/2011	5103	13.98	30572
1FPPOOL	F5L12	1F5	1995/12/15	3/11/2011	5565	15.25	29694
1FPPOOL	F5LN1	1F5	1995/12/15	3/11/2011	5565	15.25	30658
1FPPOOL	F5LN7	1F5	1995/12/15	3/11/2011	5565	15.25	30540
1FPPOOL	F5L9	1F5	1995/12/15	3/11/2011	5565	15.25	29744
1FPPOOL	F5L31	1F5	1997/3/21	3/11/2011	5103	13.98	30178
1FPPOOL	F5L38	1F5	1997/3/21	3/11/2011	5103	13.98	31927
1FPPOOL	F5LN113	1F5	1995/12/15	3/11/2011	5565	15.25	30021
1FPPOOL	F5LN114	1F5	1995/12/15	3/11/2011	5565	15.25	29979
1FPPOOL	F5LN119	1F5	1997/3/21	3/11/2011	5103	13.98	30135
1FPPOOL	F5LN105	1F5	1997/3/21	3/11/2011	5103	13.98	31499
1FPPOOL	F5LN54	1F5	1997/3/21	3/11/2011	5103	13.98	30123
1FPPOOL	F5LN55	1F5	1997/3/21	3/11/2011	5103	13.98	32440
1FPPOOL	F5LN50	1F5	1997/3/21	3/11/2011	5103	13.98	31688
1FPPOOL	F5LN74	1F5	1995/12/15	3/11/2011	5565	15.25	28823
1FPPOOL	F5LN80	1F5	1995/12/15	3/11/2011	5565	15.25	29582
1FPPOOL	F5LN94	1F5	1997/3/21	3/11/2011	5103	13.98	30680
1FPPOOL	F5LN85	1F5	1995/12/15	3/11/2011	5565	15.25	29675
1FPPOOL	F5LN49	1F5	1997/3/21	3/11/2011	5103	13.98	31614
1FPPOOL	F5LN69	1F5	1995/12/15	3/11/2011	5565	15.25	30203
1FPPOOL	F5LN70	1F5	1995/12/15	3/11/2011	5565	15.25	30196
1FPPOOL	F5LN98	1F5	1997/3/21	3/11/2011	5103	13.98	35654
1FPPOOL	F5LN99	1F5	1997/3/21	3/11/2011	5103	13.98	31514
1FPPOOL	F5LN65	1F5	1995/12/15	3/11/2011	5565	15.25	30178
1FPPOOL	F5LN86	1F5	1995/12/15	3/11/2011	5565	15.25	29592
1FPPOOL	F5LN104	1F5	1997/3/21	3/11/2011	5103	13.98	31557
1FPPOOL	F5LN68	1F5	1995/12/15	3/11/2011	5565	15.25	30147
1FPPOOL	F5LN90	1F5	1995/12/15	3/11/2011	5565	15.25	30229
1FPPOOL	F5LN115	1F5	1995/12/15	3/11/2011	5565	15.25	30001
1FPPOOL	F5LN120	1F5	1997/3/21	3/11/2011	5103	13.98	30146
1FPPOOL	F5LN89	1F5	1995/12/15	3/11/2011	5565	15.25	30423
1FPPOOL	F5LN56	1F5	1997/3/21	3/11/2011	5103	13.98	32434
1FPPOOL	F5LN60	1F5	1997/3/21	3/11/2011	5103	13.98	31789
1FPPOOL	F5LN61	1F5	1997/3/21	3/11/2011	5103	13.98	32389
1FPPOOL	F5LN76	1F5	1995/12/15	3/11/2011	5565	15.25	28895
1FPPOOL	F5LN81	1F5	1997/3/21	3/11/2011	5103	13.98	30005
1FPPOOL	F5LN48	1F5	1997/3/21	3/11/2011	5103	13.98	30093
1FPPOOL	F5LN126	1F5	1997/3/21	3/11/2011	5103	13.98	30162

1FPPOOL	F5LN116	1F5	1995/12/15	3/11/2011	5565	15.25	29978
1FPPOOL	F5LN117	1F5	1995/12/15	3/11/2011	5565	15.25	29630
1FPPOOL	F5LN53	1F5	1997/3/21	3/11/2011	5103	13.98	30164
1FPPOOL	F5LN75	1F5	1995/12/15	3/11/2011	5565	15.25	28897
1FPPOOL	F5LN58	1F5	1997/3/21	3/11/2011	5103	13.98	31797
1FPPOOL	F5LN77	1F5	1997/3/21	3/11/2011	5103	13.98	30678
1FPPOOL	F5LN82	1F5	1997/3/21	3/11/2011	5103	13.98	30007
1FPPOOL	F5LN51	1F5	1997/3/21	3/11/2011	5103	13.98	31627
1FPPOOL	F5LN91	1F5	1995/12/15	3/11/2011	5565	15.25	30383
1FPPOOL	F5LN83	1F5	1997/3/21	3/11/2011	5103	13.98	29990
1FPPOOL	F5LN112	1F5	1995/12/15	3/11/2011	5565	15.25	29613
1FPPOOL	F5LN118	1F5	1995/12/15	3/11/2011	5565	15.25	29557
1FPPOOL	F5LN103	1F5	1997/3/21	3/11/2011	5103	13.98	31585
1FPPOOL	F5LN57	1F5	1997/3/21	3/11/2011	5103	13.98	31856
1FPPOOL	F5LN106	1F5	1997/3/21	3/11/2011	5103	13.98	31418
1FPPOOL	F5LN87	1F5	1997/3/21	3/11/2011	5103	13.98	30678
1FPPOOL	F5LN111	1F5	1995/12/15	3/11/2011	5565	15.25	29646
1FPPOOL	F5LN52	1F5	1997/3/21	3/11/2011	5103	13.98	31455
1FPPOOL	F5LN84	1F5	1997/3/21	3/11/2011	5103	13.98	30004
1FPPOOL	F5LN73	1F5	1995/12/15	3/11/2011	5565	15.25	28839
1FPPOOL	F5LN92	1F5	1995/12/15	3/11/2011	5565	15.25	30269
1FPPOOL	F5LN78	1F5	1997/3/21	3/11/2011	5103	13.98	30635
1FPPOOL	F5LN79	1F5	1995/12/15	3/11/2011	5565	15.25	29621
1FPPOOL	F5LN63	1F5	1995/12/15	3/11/2011	5565	15.25	30186
1FPPOOL	F5LN62	1F5	1997/3/21	3/11/2011	5103	13.98	32366
1FPPOOL	F5LN72	1F5	1997/3/21	3/11/2011	5103	13.98	30604
1FPPOOL	F5LN93	1F5	1997/3/21	3/11/2011	5103	13.98	30624
1FPPOOL	F5LN97	1F5	1997/3/21	3/11/2011	5103	13.98	35670
1FPPOOL	F5LN64	1F5	1995/12/15	3/11/2011	5565	15.25	30180
1FPPOOL	F5LN66	1F5	1995/12/15	3/11/2011	5565	15.25	30177
1FPPOOL	F5LN67	1F5	1995/12/15	3/11/2011	5565	15.25	30161
1FPPOOL	F5LN88	1F5	1997/3/21	3/11/2011	5103	13.98	30653
1FPPOOL	F5M18	1F5	1997/3/21	3/11/2011	5103	13.98	30097
1FPPOOL	F5LN137	1F5	1997/3/21	3/11/2011	5103	13.98	32917
1FPPOOL	F5LN136	1F5	1997/3/21	3/11/2011	5103	13.98	32874
1FPPOOL	F5MN1	1F5	1997/3/21	3/11/2011	5103	13.98	30490
1FPPOOL	F5M6	1F5	1997/3/21	3/11/2011	5103	13.98	30980
1FPPOOL	F5MN21	1F5	1997/3/21	3/11/2011	5103	13.98	31956
1FPPOOL	F5MN36	1F5	1997/3/21	3/11/2011	5103	13.98	31995
1FPPOOL	F5MN35	1F5	1997/3/21	3/11/2011	5103	13.98	32056
1FPPOOL	F5M13	1F5	1997/3/21	3/11/2011	5103	13.98	30633
1FPPOOL	F5M19	1F5	1997/3/21	3/11/2011	5103	13.98	30084
1FPPOOL	F5LN135	1F5	1997/3/21	3/11/2011	5103	13.98	32926
1FPPOOL	F5M8	1F5	1997/3/21	3/11/2011	5103	13.98	30665
1FPPOOL	F5MN2	1F5	1997/3/21	3/11/2011	5103	13.98	30500
1FPPOOL	F5MN3	1F5	1997/3/21	3/11/2011	5103	13.98	30520
1FPPOOL	F5M20	1F5	1997/3/21	3/11/2011	5103	13.98	30082
1FPPOOL	F5MN33	1F5	1997/3/21	3/11/2011	5103	13.98	32071
1FPPOOL	F5MN34	1F5	1997/3/21	3/11/2011	5103	13.98	32034
1FPPOOL	F5M7	1F5	1997/3/21	3/11/2011	5103	13.98	30756
1FPPOOL	F5MN23	1F5	1997/3/21	3/11/2011	5103	13.98	31947
1FPPOOL	F5MN41	1F5	1997/3/21	3/11/2011	5103	13.98	32909
1FPPOOL	F5MN22	1F5	1997/3/21	3/11/2011	5103	13.98	31933

1FPPOOL	F5LN141	1F5	1997/3/21	3/11/2011	5103	13.98	32886
1FPPOOL	F5LN142	1F5	1997/3/21	3/11/2011	5103	13.98	32917
1FPPOOL	F5MN38	1F5	1997/3/21	3/11/2011	5103	13.98	32576
1FPPOOL	F5M14	1F5	1997/3/21	3/11/2011	5103	13.98	30630
1FPPOOL	F5M15	1F5	1997/3/21	3/11/2011	5103	13.98	30599
1FPPOOL	F5MN4	1F5	1997/3/21	3/11/2011	5103	13.98	30504
1FPPOOL	F5MN37	1F5	1997/3/21	3/11/2011	5103	13.98	32615
1FPPOOL	F5LN138	1F5	1997/3/21	3/11/2011	5103	13.98	32885
1FPPOOL	F5MN40	1F5	1997/3/21	3/11/2011	5103	13.98	32480
1FPPOOL	F5MN39	1F5	1997/3/21	3/11/2011	5103	13.98	32548
1FPPOOL	F5MN24	1F5	1997/3/21	3/11/2011	5103	13.98	31913
1FPPOOL	F5MN42	1F5	1997/3/21	3/11/2011	5103	13.98	32890
1FPPOOL	F5LN139	1F5	1997/3/21	3/11/2011	5103	13.98	32909
1FPPOOL	F5LN140	1F5	1997/3/21	3/11/2011	5103	13.98	32964
1FPPOOL	F5M16	1F5	1997/3/21	3/11/2011	5103	13.98	30544
1FPPOOL	F5M17	1F5	1997/3/21	3/11/2011	5103	13.98	30088
1FPPOOL	F5M5	1F5	1997/3/21	3/11/2011	5103	13.98	30904
1FPPOOL	F5MN57	1F5	1997/3/21	3/11/2011	5103	13.98	30216
1FPPOOL	F5MN85	1F5	1997/3/21	3/11/2011	5103	13.98	32393
1FPPOOL	F5MN91	1F5	1997/3/21	3/11/2011	5103	13.98	32369
1FPPOOL	F5MN92	1F5	1997/3/21	3/11/2011	5103	13.98	32405
1FPPOOL	F5MN63	1F5	1997/3/21	3/11/2011	5103	13.98	31976
1FPPOOL	F5MN87	1F5	1997/3/21	3/11/2011	5103	13.98	32376
1FPPOOL	F5MN86	1F5	1997/3/21	3/11/2011	5103	13.98	32336
1FPPOOL	F5MN58	1F5	1997/3/21	3/11/2011	5103	13.98	30295
1FPPOOL	F5MN55	1F5	1997/3/21	3/11/2011	5103	13.98	32850
1FPPOOL	F5MN44	1F5	1997/3/21	3/11/2011	5103	13.98	32921
1FPPOOL	F5MN59	1F5	1997/3/21	3/11/2011	5103	13.98	30216
1FPPOOL	F5MN56	1F5	1997/3/21	3/11/2011	5103	13.98	32855
1FPPOOL	F5MN88	1F5	1997/3/21	3/11/2011	5103	13.98	32338
1FPPOOL	F5MN54	1F5	1997/3/21	3/11/2011	5103	13.98	32953
1FPPOOL	F5MN60	1F5	1997/3/21	3/11/2011	5103	13.98	30259
1FPPOOL	F5MN53	1F5	1997/3/21	3/11/2011	5103	13.98	32942
1FPPOOL	F5MN43	1F5	1997/3/21	3/11/2011	5103	13.98	32930
1FPPOOL	F5MN61	1F5	1997/3/21	3/11/2011	5103	13.98	32015
1FPPOOL	F5MN90	1F5	1997/3/21	3/11/2011	5103	13.98	32391
1FPPOOL	F5MN62	1F5	1997/3/21	3/11/2011	5103	13.98	32058
1FPPOOL	F5MN64	1F5	1997/3/21	3/11/2011	5103	13.98	32014
1FPPOOL	F5MN89	1F5	1997/3/21	3/11/2011	5103	13.98	32379
1FPPOOL	F6B27	1F6	1988/2/20	3/11/2011	8420	23.07	28260
1FPPOOL	F6B34	1F6	1988/2/20	3/11/2011	8420	23.07	28227
1FPPOOL	F6B168	1F6	1988/2/20	3/11/2011	8420	23.07	28286
1FPPOOL	F6B229	1F6	1988/2/20	3/11/2011	8420	23.07	28281
1FPPOOL	F6B253	1F6	1988/2/20	3/11/2011	8420	23.07	27696
1FPPOOL	F6B257	1F6	1988/2/20	3/11/2011	8420	23.07	28002
1FPPOOL	F6B177	1F6	1988/2/20	3/11/2011	8420	23.07	28324
1FPPOOL	F6B260	1F6	1988/2/20	3/11/2011	8420	23.07	27987
1FPPOOL	F6B220	1F6	1988/2/20	3/11/2011	8420	23.07	28321
1FPPOOL	F6B185	1F6	1985/6/25	3/11/2011	9390	25.73	22508
1FPPOOL	F6B137	1F6	1988/2/20	3/11/2011	8420	23.07	27988
1FPPOOL	F6B140	1F6	1988/2/20	3/11/2011	8420	23.07	28003
1FPPOOL	F6B51	1F6	1988/2/20	3/11/2011	8420	23.07	28222
1FPPOOL	F6B58	1F6	1988/2/20	3/11/2011	8420	23.07	28266

1FPPOOL	F6E89	1F6	1992/3/8	3/11/2011	6942	19.02	31875
1FPPOOL	F6E8	1F6	1992/3/8	3/11/2011	6942	19.02	30726
1FPPOOL	F6E93	1F6	1992/3/8	3/11/2011	6942	19.02	29436
1FPPOOL	F6E59	1F6	1992/3/8	3/11/2011	6942	19.02	30864
1FPPOOL	F6E25	1F6	1992/3/8	3/11/2011	6942	19.02	30829
1FPPOOL	F6E84	1F6	1992/3/8	3/11/2011	6942	19.02	30683
1FPPOOL	F6E90	1F6	1992/3/8	3/11/2011	6942	19.02	29424
1FPPOOL	F6E95	1F6	1992/3/8	3/11/2011	6942	19.02	32055
1FPPOOL	F6E98	1F6	1992/3/8	3/11/2011	6942	19.02	32136
1FPPOOL	F6E96	1F6	1992/3/8	3/11/2011	6942	19.02	33962
1FPPOOL	F6E97	1F6	1992/3/8	3/11/2011	6942	19.02	34117
1FPPOOL	F6E91	1F6	1992/3/8	3/11/2011	6942	19.02	29925
1FPPOOL	F6E92	1F6	1992/3/8	3/11/2011	6942	19.02	29989
1FPPOOL	F6E102	1F6	1992/3/8	3/11/2011	6942	19.02	31223
1FPPOOL	F6E99	1F6	1992/3/8	3/11/2011	6942	19.02	31109
1FPPOOL	F6E94	1F6	1992/3/8	3/11/2011	6942	19.02	31973
1FPPOOL	F6E127	1F6	1992/3/8	3/11/2011	6942	19.02	29456
1FPPOOL	F6E101	1F6	1992/3/8	3/11/2011	6942	19.02	31125
1FPPOOL	F6E81	1F6	1992/3/8	3/11/2011	6942	19.02	30776
1FPPOOL	F6E5	1F6	1992/3/8	3/11/2011	6942	19.02	30691
1FPPOOL	F6E30	1F6	1992/3/8	3/11/2011	6942	19.02	30917
1FPPOOL	F6E64	1F6	1992/3/8	3/11/2011	6942	19.02	30835
1FPPOOL	F6E143	1F6	1992/3/8	3/11/2011	6942	19.02	29880
1FPPOOL	F6E165	1F6	1993/9/15	3/11/2011	6386	17.50	28986
1FPPOOL	F6E171	1F6	1992/3/8	3/11/2011	6942	19.02	25452
1FPPOOL	F6E172	1F6	1992/3/8	3/11/2011	6942	19.02	27138
1FPPOOL	F6E158	1F6	1992/3/8	3/11/2011	6942	19.02	29926
1FPPOOL	F6E160	1F6	1992/3/8	3/11/2011	6942	19.02	31827
1FPPOOL	F6E112	1F6	1992/3/8	3/11/2011	6942	19.02	32011
1FPPOOL	F6E117	1F6	1992/3/8	3/11/2011	6942	19.02	30588
1FPPOOL	F6E176	1F6	1992/3/8	3/11/2011	6942	19.02	25627
1FPPOOL	F6E142	1F6	1992/3/8	3/11/2011	6942	19.02	29851
1FPPOOL	F6E129	1F6	1992/3/8	3/11/2011	6942	19.02	33862
1FPPOOL	F6E130	1F6	1992/3/8	3/11/2011	6942	19.02	29499
1FPPOOL	F6E140	1F6	1992/3/8	3/11/2011	6942	19.02	31213
1FPPOOL	F6E107	1F6	1992/3/8	3/11/2011	6942	19.02	29843
1FPPOOL	F6E125	1F6	1992/3/8	3/11/2011	6942	19.02	30110
1FPPOOL	F6E147	1F6	1992/3/8	3/11/2011	6942	19.02	31150
1FPPOOL	F6E148	1F6	1992/3/8	3/11/2011	6942	19.02	31110
1FPPOOL	F6E122	1F6	1992/3/8	3/11/2011	6942	19.02	29560
1FPPOOL	F6E144	1F6	1992/3/8	3/11/2011	6942	19.02	29933
1FPPOOL	F6E166	1F6	1992/3/8	3/11/2011	6942	19.02	27370
1FPPOOL	F6E167	1F6	1992/3/8	3/11/2011	6942	19.02	27465
1FPPOOL	F6E173	1F6	1992/3/8	3/11/2011	6942	19.02	26865
1FPPOOL	F6E179	1F6	1993/9/15	3/11/2011	6386	17.50	29166
1FPPOOL	F6E118	1F6	1992/3/8	3/11/2011	6942	19.02	30644
1FPPOOL	F6E119	1F6	1992/3/8	3/11/2011	6942	19.02	29451
1FPPOOL	F6E183	1F6	1992/3/8	3/11/2011	6942	19.02	27053
1FPPOOL	F6E181	1F6	1993/9/15	3/11/2011	6386	17.50	28126
1FPPOOL	F6E182	1F6	1992/3/8	3/11/2011	6942	19.02	26950
1FPPOOL	F6E161	1F6	1993/9/15	3/11/2011	6386	17.50	28013
1FPPOOL	F6E106	1F6	1992/3/8	3/11/2011	6942	19.02	29901
1FPPOOL	F6E131	1F6	1992/3/8	3/11/2011	6942	19.02	30576

1FPPOOL	F6E136	1F6	1992/3/8	3/11/2011	6942	19.02	29606
1FPPOOL	F6E108	1F6	1992/3/8	3/11/2011	6942	19.02	29932
1FPPOOL	F6E105	1F6	1992/3/8	3/11/2011	6942	19.02	29744
1FPPOOL	F6E154	1F6	1992/3/8	3/11/2011	6942	19.02	31941
1FPPOOL	F6E180	1F6	1993/9/15	3/11/2011	6386	17.50	29175
1FPPOOL	F6E126	1F6	1992/3/8	3/11/2011	6942	19.02	30220
1FPPOOL	F6E185	1F6	1992/3/8	3/11/2011	6942	19.02	27166
1FPPOOL	F6E162	1F6	1993/9/15	3/11/2011	6386	17.50	29104
1FPPOOL	F6E174	1F6	1992/3/8	3/11/2011	6942	19.02	25588
1FPPOOL	F6E175	1F6	1992/3/8	3/11/2011	6942	19.02	25800
1FPPOOL	F6E187	1F6	1993/9/15	3/11/2011	6386	17.50	29340
1FPPOOL	F6E163	1F6	1993/9/15	3/11/2011	6386	17.50	29188
1FPPOOL	F6E168	1F6	1993/9/15	3/11/2011	6386	17.50	29130
1FPPOOL	F6E110	1F6	1992/3/8	3/11/2011	6942	19.02	31225
1FPPOOL	F6E111	1F6	1992/3/8	3/11/2011	6942	19.02	32087
1FPPOOL	F6E116	1F6	1992/3/8	3/11/2011	6942	19.02	29633
1FPPOOL	F6E184	1F6	1993/9/15	3/11/2011	6386	17.50	28003
1FPPOOL	F6E113	1F6	1992/3/8	3/11/2011	6942	19.02	29561
1FPPOOL	F6E132	1F6	1992/3/8	3/11/2011	6942	19.02	30629
1FPPOOL	F6E137	1F6	1992/3/8	3/11/2011	6942	19.02	32036
1FPPOOL	F6E177	1F6	1992/3/8	3/11/2011	6942	19.02	26173
1FPPOOL	F6E178	1F6	1992/3/8	3/11/2011	6942	19.02	26380
1FPPOOL	F6E214	1F6	1993/9/15	3/11/2011	6386	17.50	29093
1FPPOOL	F6E145	1F6	1992/3/8	3/11/2011	6942	19.02	31133
1FPPOOL	F6E155	1F6	1992/3/8	3/11/2011	6942	19.02	31949
1FPPOOL	F6E138	1F6	1992/3/8	3/11/2011	6942	19.02	32058
1FPPOOL	F6E186	1F6	1992/3/8	3/11/2011	6942	19.02	27422
1FPPOOL	F6E150	1F6	1992/3/8	3/11/2011	6942	19.02	31114
1FPPOOL	F6E169	1F6	1992/3/8	3/11/2011	6942	19.02	25495
1FPPOOL	F6E170	1F6	1992/3/8	3/11/2011	6942	19.02	25557
1FPPOOL	F6E156	1F6	1992/3/8	3/11/2011	6942	19.02	29447
1FPPOOL	F6E157	1F6	1992/3/8	3/11/2011	6942	19.02	29998
1FPPOOL	F6E159	1F6	1992/3/8	3/11/2011	6942	19.02	29352
1FPPOOL	F6E164	1F6	1993/9/15	3/11/2011	6386	17.50	28070
1FPPOOL	F6E109	1F6	1992/3/8	3/11/2011	6942	19.02	31122
1FPPOOL	F6E139	1F6	1992/3/8	3/11/2011	6942	19.02	31101
1FPPOOL	F6E141	1F6	1992/3/8	3/11/2011	6942	19.02	29812
1FPPOOL	F6E133	1F6	1992/3/8	3/11/2011	6942	19.02	29521
1FPPOOL	F6E121	1F6	1992/3/8	3/11/2011	6942	19.02	33987
1FPPOOL	F6E120	1F6	1992/3/8	3/11/2011	6942	19.02	33903
1FPPOOL	F6E104	1F6	1992/3/8	3/11/2011	6942	19.02	31138
1FPPOOL	F6E128	1F6	1992/3/8	3/11/2011	6942	19.02	33891
1FPPOOL	F6E151	1F6	1992/3/8	3/11/2011	6942	19.02	31930
1FPPOOL	F6E152	1F6	1992/3/8	3/11/2011	6942	19.02	34017
1FPPOOL	F6E153	1F6	1992/3/8	3/11/2011	6942	19.02	33925
1FPPOOL	F6E123	1F6	1992/3/8	3/11/2011	6942	19.02	30121
1FPPOOL	F6E124	1F6	1992/3/8	3/11/2011	6942	19.02	30124
1FPPOOL	F6E195	1F6	1992/3/8	3/11/2011	6942	19.02	26982
1FPPOOL	F6F33	1F6	1992/3/8	3/11/2011	6942	19.02	32324
1FPPOOL	F6F34	1F6	1992/3/8	3/11/2011	6942	19.02	32291
1FPPOOL	F6F36	1F6	1992/3/8	3/11/2011	6942	19.02	29446
1FPPOOL	F6E197	1F6	1993/9/15	3/11/2011	6386	17.50	29156
1FPPOOL	F6E203	1F6	1992/3/8	3/11/2011	6942	19.02	25509

1FPPOOL	F6E192	1F6	1992/3/8	3/11/2011	6942	19.02	27302
1FPPOOL	F6E190	1F6	1993/9/15	3/11/2011	6386	17.50	29246
1FPPOOL	F6E191	1F6	1992/3/8	3/11/2011	6942	19.02	27231
1FPPOOL	F6F23	1F6	1992/3/8	3/11/2011	6942	19.02	28777
1FPPOOL	F6F28	1F6	1992/3/8	3/11/2011	6942	19.02	28342
1FPPOOL	F6E209	1F6	1993/9/15	3/11/2011	6386	17.50	29079
1FPPOOL	F6E212	1F6	1993/9/15	3/11/2011	6386	17.50	28985
1FPPOOL	F6F43	1F6	1992/3/8	3/11/2011	6942	19.02	29429
1FPPOOL	F6F31	1F6	1992/3/8	3/11/2011	6942	19.02	29391
1FPPOOL	F6E204	1F6	1992/3/8	3/11/2011	6942	19.02	27007
1FPPOOL	F6E205	1F6	1992/3/8	3/11/2011	6942	19.02	26848
1FPPOOL	F6E200	1F6	1992/3/8	3/11/2011	6942	19.02	26088
1FPPOOL	F6F3	1F6	1992/3/8	3/11/2011	6942	19.02	28589
1FPPOOL	F6F61	1F6	1992/3/8	3/11/2011	6942	19.02	28792
1FPPOOL	F6F24	1F6	1992/3/8	3/11/2011	6942	19.02	28794
1FPPOOL	F6F29	1F6	1992/3/8	3/11/2011	6942	19.02	30323
1FPPOOL	F6E213	1F6	1993/9/15	3/11/2011	6386	17.50	27990
1FPPOOL	F6E196	1F6	1993/9/15	3/11/2011	6386	17.50	28002
1FPPOOL	F6E201	1F6	1992/3/8	3/11/2011	6942	19.02	25719
1FPPOOL	F6F38	1F6	1992/3/8	3/11/2011	6942	19.02	30386
1FPPOOL	F6E198	1F6	1993/9/15	3/11/2011	6386	17.50	28997
1FPPOOL	F6E215	1F6	1993/9/15	3/11/2011	6386	17.50	29007
1FPPOOL	F6F10	1F6	1992/3/8	3/11/2011	6942	19.02	28645
1FPPOOL	F6E202	1F6	1992/3/8	3/11/2011	6942	19.02	25583
1FPPOOL	F6E193	1F6	1993/9/15	3/11/2011	6386	17.50	28084
1FPPOOL	F6F19	1F6	1992/3/8	3/11/2011	6942	19.02	28239
1FPPOOL	F6F40	1F6	1992/3/8	3/11/2011	6942	19.02	29561
1FPPOOL	F6E194	1F6	1992/3/8	3/11/2011	6942	19.02	26877
1FPPOOL	F6E206	1F6	1992/3/8	3/11/2011	6942	19.02	25508
1FPPOOL	F6E199	1F6	1992/3/8	3/11/2011	6942	19.02	26134
1FPPOOL	F6E216	1F6	1993/9/15	3/11/2011	6386	17.50	27842
1FPPOOL	F6E208	1F6	1992/3/8	3/11/2011	6942	19.02	25391
1FPPOOL	F6E207	1F6	1992/3/8	3/11/2011	6942	19.02	25520
1FPPOOL	F6E188	1F6	1993/9/15	3/11/2011	6386	17.50	29204
1FPPOOL	F6E189	1F6	1993/9/15	3/11/2011	6386	17.50	29410
1FPPOOL	F6E210	1F6	1992/3/8	3/11/2011	6942	19.02	27399
1FPPOOL	F6E211	1F6	1992/3/8	3/11/2011	6942	19.02	27192
1FPPOOL	F6F143	1F6	1992/3/8	3/11/2011	6942	19.02	28578
1FPPOOL	F6F130	1F6	1992/3/8	3/11/2011	6942	19.02	28742
1FPPOOL	F6F75	1F6	1992/3/8	3/11/2011	6942	19.02	32282
1FPPOOL	F6F81	1F6	1992/3/8	3/11/2011	6942	19.02	32176
1FPPOOL	F6F122	1F6	1992/3/8	3/11/2011	6942	19.02	29439
1FPPOOL	F6F117	1F6	1992/3/8	3/11/2011	6942	19.02	29401
1FPPOOL	F6F119	1F6	1992/3/8	3/11/2011	6942	19.02	32377
1FPPOOL	F6G4	1F6	1993/9/15	3/11/2011	6386	17.50	36067
1FPPOOL	F6F150	1F6	1992/3/8	3/11/2011	6942	19.02	28556
1FPPOOL	F6F113	1F6	1992/3/8	3/11/2011	6942	19.02	29394
1FPPOOL	F6G2	1F6	1993/9/15	3/11/2011	6386	17.50	31336
1FPPOOL	F6G1	1F6	1993/9/15	3/11/2011	6386	17.50	31145
1FPPOOL	F6G3	1F6	1993/9/15	3/11/2011	6386	17.50	35795
1FPPOOL	F6F68	1F6	1992/3/8	3/11/2011	6942	19.02	28824
1FPPOOL	F6F124	1F6	1992/3/8	3/11/2011	6942	19.02	30382
1FPPOOL	F6F92	1F6	1992/3/8	3/11/2011	6942	19.02	28772

1FPPOOL	F6F134	1F6	1992/3/8	3/11/2011	6942	19.02	28272
1FPPOOL	F6F125	1F6	1992/3/8	3/11/2011	6942	19.02	28235
1FPPOOL	F6F115	1F6	1992/3/8	3/11/2011	6942	19.02	30398
1FPPOOL	F6F120	1F6	1992/3/8	3/11/2011	6942	19.02	32146
1FPPOOL	F6F129	1F6	1992/3/8	3/11/2011	6942	19.02	28756
1FPPOOL	F6F72	1F6	1992/3/8	3/11/2011	6942	19.02	32219
1FPPOOL	F6F110	1F6	1992/3/8	3/11/2011	6942	19.02	29506
1FPPOOL	F6F78	1F6	1992/3/8	3/11/2011	6942	19.02	32186
1FPPOOL	F6F85	1F6	1992/3/8	3/11/2011	6942	19.02	28728
1FPPOOL	F6G71	1F6	1996/9/1	3/11/2011	5304	14.53	31462
1FPPOOL	F6G72	1F6	1995/4/7	3/11/2011	5817	15.94	32511
1FPPOOL	F6G76	1F6	1995/4/7	3/11/2011	5817	15.94	35974
1FPPOOL	F6G67	1F6	1993/9/15	3/11/2011	6386	17.50	31184
1FPPOOL	F6G15	1F6	1993/9/15	3/11/2011	6386	17.50	35666
1FPPOOL	F6G21	1F6	1992/3/8	3/11/2011	6942	19.02	27262
1FPPOOL	F6G79	1F6	1996/9/1	3/11/2011	5304	14.53	31284
1FPPOOL	F6G49	1F6	1993/9/15	3/11/2011	6386	17.50	30691
1FPPOOL	F6G35	1F6	1993/9/15	3/11/2011	6386	17.50	35097
1FPPOOL	F6G40	1F6	1992/3/8	3/11/2011	6942	19.02	28792
1FPPOOL	F6G41	1F6	1992/3/8	3/11/2011	6942	19.02	28691
1FPPOOL	F6G37	1F6	1992/3/8	3/11/2011	6942	19.02	28804
1FPPOOL	F6G46	1F6	1992/3/8	3/11/2011	6942	19.02	28620
1FPPOOL	F6G80	1F6	1995/4/7	3/11/2011	5817	15.94	32513
1FPPOOL	F6G10	1F6	1992/3/8	3/11/2011	6942	19.02	28726
1FPPOOL	F6G54	1F6	1993/9/15	3/11/2011	6386	17.50	35441
1FPPOOL	F6G55	1F6	1993/9/15	3/11/2011	6386	17.50	32923
1FPPOOL	F6G60	1F6	1993/9/15	3/11/2011	6386	17.50	34046
1FPPOOL	F6G27	1F6	1992/3/8	3/11/2011	6942	19.02	28751
1FPPOOL	F6G30	1F6	1993/9/15	3/11/2011	6386	17.50	30825
1FPPOOL	F6G73	1F6	1995/4/7	3/11/2011	5817	15.94	35636
1FPPOOL	F6G77	1F6	1995/4/7	3/11/2011	5817	15.94	32527
1FPPOOL	F6G82	1F6	1992/3/8	3/11/2011	6942	19.02	28406
1FPPOOL	F6G83	1F6	1993/9/15	3/11/2011	6386	17.50	33637
1FPPOOL	F6G51	1F6	1993/9/15	3/11/2011	6386	17.50	35808
1FPPOOL	F6G17	1F6	1993/9/15	3/11/2011	6386	17.50	33124
1FPPOOL	F6G22	1F6	1992/3/8	3/11/2011	6942	19.02	28095
1FPPOOL	F6G23	1F6	1992/3/8	3/11/2011	6942	19.02	28669
1FPPOOL	F6G87	1F6	1992/3/8	3/11/2011	6942	19.02	29383
1FPPOOL	F6G18	1F6	1993/9/15	3/11/2011	6386	17.50	35996
1FPPOOL	F6G85	1F6	1993/9/15	3/11/2011	6386	17.50	30805
1FPPOOL	F6G86	1F6	1992/3/8	3/11/2011	6942	19.02	27400
1FPPOOL	F6G68	1F6	1993/9/15	3/11/2011	6386	17.50	31102
1FPPOOL	F6G42	1F6	1992/3/8	3/11/2011	6942	19.02	28675
1FPPOOL	F6G81	1F6	1992/3/8	3/11/2011	6942	19.02	28408
1FPPOOL	F6G32	1F6	1992/3/8	3/11/2011	6942	19.02	28902
1FPPOOL	F6G56	1F6	1993/9/15	3/11/2011	6386	17.50	35711
1FPPOOL	F6G61	1F6	1993/9/15	3/11/2011	6386	17.50	33280
1FPPOOL	F6G84	1F6	1992/3/8	3/11/2011	6942	19.02	29548
1FPPOOL	F6G31	1F6	1993/9/15	3/11/2011	6386	17.50	30902
1FPPOOL	F6G69	1F6	1995/4/7	3/11/2011	5817	15.94	32477
1FPPOOL	F6G90	1F6	1993/9/15	3/11/2011	6386	17.50	30448
1FPPOOL	F6G74	1F6	1995/4/7	3/11/2011	5817	15.94	36129
1FPPOOL	F6G14	1F6	1993/9/15	3/11/2011	6386	17.50	32939

1FPPOOL	F6G19	1F6	1992/3/8	3/11/2011	6942	19.02	28095
1FPPOOL	F6G78	1F6	1996/9/1	3/11/2011	5304	14.53	31538
1FPPOOL	F6G88	1F6	1993/9/15	3/11/2011	6386	17.50	33780
1FPPOOL	F6G11	1F6	1992/3/8	3/11/2011	6942	19.02	28803
1FPPOOL	F6G16	1F6	1993/9/15	3/11/2011	6386	17.50	35765
1FPPOOL	F6G38	1F6	1993/9/15	3/11/2011	6386	17.50	30853
1FPPOOL	F6G43	1F6	1993/9/15	3/11/2011	6386	17.50	30167
1FPPOOL	F6G114	1F6	1993/9/15	3/11/2011	6386	17.50	33673
1FPPOOL	F6G52	1F6	1993/9/15	3/11/2011	6386	17.50	33008
1FPPOOL	F6G62	1F6	1993/9/15	3/11/2011	6386	17.50	33163
1FPPOOL	F6G59	1F6	1992/3/8	3/11/2011	6942	19.02	28716
1FPPOOL	F6G44	1F6	1993/9/15	3/11/2011	6386	17.50	30136
1FPPOOL	F6G89	1F6	1993/9/15	3/11/2011	6386	17.50	35789
1FPPOOL	F6G75	1F6	1995/4/7	3/11/2011	5817	15.94	36160
1FPPOOL	F6G20	1F6	1992/3/8	3/11/2011	6942	19.02	27318
1FPPOOL	F6G63	1F6	1993/9/15	3/11/2011	6386	17.50	34116
1FPPOOL	F6G64	1F6	1993/9/15	3/11/2011	6386	17.50	33984
1FPPOOL	F6G66	1F6	1993/9/15	3/11/2011	6386	17.50	35479
1FPPOOL	F6G65	1F6	1993/9/15	3/11/2011	6386	17.50	35545
1FPPOOL	F6G70	1F6	1996/9/1	3/11/2011	5304	14.53	31411
1FPPOOL	F6G50	1F6	1992/3/8	3/11/2011	6942	19.02	27976
1FPPOOL	F6G91	1F6	1993/9/15	3/11/2011	6386	17.50	30528
1FPPOOL	F6G13	1F6	1993/9/15	3/11/2011	6386	17.50	35900
1FPPOOL	F6G24	1F6	1992/3/8	3/11/2011	6942	19.02	28833
1FPPOOL	F6G48	1F6	1992/3/8	3/11/2011	6942	19.02	27309
1FPPOOL	F6G39	1F6	1993/9/15	3/11/2011	6386	17.50	30929
1FPPOOL	F6G25	1F6	1993/9/15	3/11/2011	6386	17.50	30256
1FPPOOL	F6G7	1F6	1993/9/15	3/11/2011	6386	17.50	33170
1FPPOOL	F6G8	1F6	1993/9/15	3/11/2011	6386	17.50	33384
1FPPOOL	F6G34	1F6	1993/9/15	3/11/2011	6386	17.50	35131
1FPPOOL	F6G58	1F6	1992/3/8	3/11/2011	6942	19.02	28785
1FPPOOL	F6G45	1F6	1992/3/8	3/11/2011	6942	19.02	28730
1FPPOOL	F6G26	1F6	1992/3/8	3/11/2011	6942	19.02	27360
1FPPOOL	F6G28	1F6	1992/3/8	3/11/2011	6942	19.02	28771
1FPPOOL	F6G29	1F6	1992/3/8	3/11/2011	6942	19.02	28774
1FPPOOL	F6G47	1F6	1992/3/8	3/11/2011	6942	19.02	28038
1FPPOOL	F6G53	1F6	1993/9/15	3/11/2011	6386	17.50	35587
1FPPOOL	F6G130	1F6	1992/3/8	3/11/2011	6942	19.02	27298
1FPPOOL	F6G148	1F6	1993/9/15	3/11/2011	6386	17.50	33077
1FPPOOL	F6G154	1F6	1993/9/15	3/11/2011	6386	17.50	31419
1FPPOOL	F6G156	1F6	1992/3/8	3/11/2011	6942	19.02	28845
1FPPOOL	F6G160	1F6	1992/3/8	3/11/2011	6942	19.02	27686
1FPPOOL	F6G169	1F6	1993/9/15	3/11/2011	6386	17.50	33785
1FPPOOL	F6G99	1F6	1993/9/15	3/11/2011	6386	17.50	35592
1FPPOOL	F6G104	1F6	1993/9/15	3/11/2011	6386	17.50	33988
1FPPOOL	F6G164	1F6	1992/3/8	3/11/2011	6942	19.02	29186
1FPPOOL	F6G166	1F6	1993/9/15	3/11/2011	6386	17.50	33743
1FPPOOL	F6G129	1F6	1993/9/15	3/11/2011	6386	17.50	33001
1FPPOOL	F6G111	1F6	1993/9/15	3/11/2011	6386	17.50	33838
1FPPOOL	F6G117	1F6	1992/3/8	3/11/2011	6942	19.02	27544
1FPPOOL	F6G123	1F6	1993/9/15	3/11/2011	6386	17.50	31046
1FPPOOL	F6G167	1F6	1993/9/15	3/11/2011	6386	17.50	36243
1FPPOOL	F6G135	1F6	1992/3/8	3/11/2011	6942	19.02	27399

1FPPOOL	F6G141	1F6	1992/3/8	3/11/2011	6942	19.02	28665
1FPPOOL	F6G142	1F6	1992/3/8	3/11/2011	6942	19.02	27346
1FPPOOL	F6G109	1F6	1993/9/15	3/11/2011	6386	17.50	33852
1FPPOOL	F6G112	1F6	1992/3/8	3/11/2011	6942	19.02	29201
1FPPOOL	F6G155	1F6	1992/3/8	3/11/2011	6942	19.02	29049
1FPPOOL	F6G161	1F6	1992/3/8	3/11/2011	6942	19.02	27484
1FPPOOL	F6G165	1F6	1992/3/8	3/11/2011	6942	19.02	29143
1FPPOOL	F6G131	1F6	1992/3/8	3/11/2011	6942	19.02	27480
1FPPOOL	F6G106	1F6	1993/9/15	3/11/2011	6386	17.50	33061
1FPPOOL	F6G119	1F6	1993/9/15	3/11/2011	6386	17.50	35825
1FPPOOL	F6G105	1F6	1993/9/15	3/11/2011	6386	17.50	33651
1FPPOOL	F6G170	1F6	1993/9/15	3/11/2011	6386	17.50	33173
1FPPOOL	F6G172	1F6	1993/9/15	3/11/2011	6386	17.50	33706
1FPPOOL	F6G150	1F6	1992/3/8	3/11/2011	6942	19.02	28380
1FPPOOL	F6G136	1F6	1992/3/8	3/11/2011	6942	19.02	28605
1FPPOOL	F6G124	1F6	1993/9/15	3/11/2011	6386	17.50	35860
1FPPOOL	F6G173	1F6	1993/9/15	3/11/2011	6386	17.50	33783
1FPPOOL	F6G95	1F6	1993/9/15	3/11/2011	6386	17.50	33768
1FPPOOL	F6G137	1F6	1992/3/8	3/11/2011	6942	19.02	28723
1FPPOOL	F6G143	1F6	1992/3/8	3/11/2011	6942	19.02	28265
1FPPOOL	F6G139	1F6	1992/3/8	3/11/2011	6942	19.02	27368
1FPPOOL	F6G168	1F6	1993/9/15	3/11/2011	6386	17.50	34106
1FPPOOL	F6G113	1F6	1992/3/8	3/11/2011	6942	19.02	29189
1FPPOOL	F6G151	1F6	1992/3/8	3/11/2011	6942	19.02	27505
1FPPOOL	F6G162	1F6	1992/3/8	3/11/2011	6942	19.02	27441
1FPPOOL	F6G176	1F6	1992/3/8	3/11/2011	6942	19.02	29205
1FPPOOL	F6G96	1F6	1993/9/15	3/11/2011	6386	17.50	33929
1FPPOOL	F6G157	1F6	1993/9/15	3/11/2011	6386	17.50	31198
1FPPOOL	F6G149	1F6	1993/9/15	3/11/2011	6386	17.50	30098
1FPPOOL	F6G98	1F6	1992/3/8	3/11/2011	6942	19.02	29257
1FPPOOL	F6G103	1F6	1993/9/15	3/11/2011	6386	17.50	36040
1FPPOOL	F6G174	1F6	1993/9/15	3/11/2011	6386	17.50	35882
1FPPOOL	F6G100	1F6	1993/9/15	3/11/2011	6386	17.50	35755
1FPPOOL	F6G101	1F6	1992/3/8	3/11/2011	6942	19.02	29062
1FPPOOL	F6G97	1F6	1993/9/15	3/11/2011	6386	17.50	33940
1FPPOOL	F6G120	1F6	1993/9/15	3/11/2011	6386	17.50	31112
1FPPOOL	F6G125	1F6	1993/9/15	3/11/2011	6386	17.50	34484
1FPPOOL	F6G122	1F6	1992/3/8	3/11/2011	6942	19.02	28704
1FPPOOL	F6G171	1F6	1993/9/15	3/11/2011	6386	17.50	33060
1FPPOOL	F6H5	1F6	1995/4/7	3/11/2011	5817	15.94	30966
1FPPOOL	F6G132	1F6	1993/9/15	3/11/2011	6386	17.50	33242
1FPPOOL	F6G134	1F6	1992/3/8	3/11/2011	6942	19.02	28513
1FPPOOL	F6G144	1F6	1993/9/15	3/11/2011	6386	17.50	29964
1FPPOOL	F6G175	1F6	1993/9/15	3/11/2011	6386	17.50	34043
1FPPOOL	F6G138	1F6	1992/3/8	3/11/2011	6942	19.02	27389
1FPPOOL	F6G158	1F6	1993/9/15	3/11/2011	6386	17.50	35726
1FPPOOL	F6G146	1F6	1992/3/8	3/11/2011	6942	19.02	27400
1FPPOOL	F6G163	1F6	1993/9/15	3/11/2011	6386	17.50	33843
1FPPOOL	F6G147	1F6	1992/3/8	3/11/2011	6942	19.02	27447
1FPPOOL	F6G153	1F6	1993/9/15	3/11/2011	6386	17.50	36042
1FPPOOL	F6G107	1F6	1993/9/15	3/11/2011	6386	17.50	33257
1FPPOOL	F6G145	1F6	1993/9/15	3/11/2011	6386	17.50	33169
1FPPOOL	F6G128	1F6	1993/9/15	3/11/2011	6386	17.50	29952

1FPPOOL	F6G115	1F6	1993/9/15	3/11/2011	6386	17.50	30312
1FPPOOL	F6G102	1F6	1993/9/15	3/11/2011	6386	17.50	33623
1FPPOOL	F6G121	1F6	1992/3/8	3/11/2011	6942	19.02	28812
1FPPOOL	F6G108	1F6	1993/9/15	3/11/2011	6386	17.50	33780
1FPPOOL	F6G92	1F6	1993/9/15	3/11/2011	6386	17.50	36056
1FPPOOL	F6G116	1F6	1992/3/8	3/11/2011	6942	19.02	27434
1FPPOOL	F6G140	1F6	1992/3/8	3/11/2011	6942	19.02	28580
1FPPOOL	F6G127	1F6	1992/3/8	3/11/2011	6942	19.02	28317
1FPPOOL	F6G126	1F6	1992/3/8	3/11/2011	6942	19.02	27593
1FPPOOL	F6G110	1F6	1993/9/15	3/11/2011	6386	17.50	36022
1FPPOOL	F6G133	1F6	1993/9/15	3/11/2011	6386	17.50	30106
1FPPOOL	F6H38	1F6	1995/4/7	3/11/2011	5817	15.94	36116
1FPPOOL	F6H43	1F6	1995/4/7	3/11/2011	5817	15.94	33120
1FPPOOL	F6H48	1F6	1995/4/7	3/11/2011	5817	15.94	32132
1FPPOOL	F6H36	1F6	1993/9/15	3/11/2011	6386	17.50	28016
1FPPOOL	F6H53	1F6	1993/9/15	3/11/2011	6386	17.50	28203
1FPPOOL	F6G185	1F6	1993/9/15	3/11/2011	6386	17.50	36015
1FPPOOL	F6G190	1F6	1992/3/8	3/11/2011	6942	19.02	29503
1FPPOOL	F6H13	1F6	1995/4/7	3/11/2011	5817	15.94	32159
1FPPOOL	F6H52	1F6	1993/9/15	3/11/2011	6386	17.50	28382
1FPPOOL	F6G189	1F6	1993/9/15	3/11/2011	6386	17.50	33590
1FPPOOL	F6H14	1F6	1995/4/7	3/11/2011	5817	15.94	30990
1FPPOOL	F6H8	1F6	1993/9/15	3/11/2011	6386	17.50	28214
1FPPOOL	F6H30	1F6	1993/9/15	3/11/2011	6386	17.50	30404
1FPPOOL	F6H18	1F6	1995/4/7	3/11/2011	5817	15.94	33153
1FPPOOL	F6G180	1F6	1993/9/15	3/11/2011	6386	17.50	33608
1FPPOOL	F6H25	1F6	1995/4/7	3/11/2011	5817	15.94	31215
1FPPOOL	F6H31	1F6	1993/9/15	3/11/2011	6386	17.50	30289
1FPPOOL	F6H27	1F6	1993/9/15	3/11/2011	6386	17.50	30213
1FPPOOL	F6G195	1F6	1992/3/8	3/11/2011	6942	19.02	28482
1FPPOOL	F6G196	1F6	1992/3/8	3/11/2011	6942	19.02	28292
1FPPOOL	F6H2	1F6	1993/9/15	3/11/2011	6386	17.50	30235
1FPPOOL	F6H3	1F6	1993/9/15	3/11/2011	6386	17.50	30320
1FPPOOL	F6H44	1F6	1995/4/7	3/11/2011	5817	15.94	33093
1FPPOOL	F6H49	1F6	1995/4/7	3/11/2011	5817	15.94	32454
1FPPOOL	F6H46	1F6	1995/4/7	3/11/2011	5817	15.94	31188
1FPPOOL	F6H55	1F6	1993/9/15	3/11/2011	6386	17.50	28264
1FPPOOL	F6H34	1F6	1993/9/15	3/11/2011	6386	17.50	30127
1FPPOOL	F6H56	1F6	1993/9/15	3/11/2011	6386	17.50	28189
1FPPOOL	F6H22	1F6	1995/4/7	3/11/2011	5817	15.94	31130
1FPPOOL	F6G191	1F6	1993/9/15	3/11/2011	6386	17.50	30836
1FPPOOL	F6H58	1F6	1993/9/15	3/11/2011	6386	17.50	30418
1FPPOOL	F6H51	1F6	1995/4/7	3/11/2011	5817	15.94	36315
1FPPOOL	F6H59	1F6	1993/9/15	3/11/2011	6386	17.50	30148
1FPPOOL	F6H10	1F6	1995/4/7	3/11/2011	5817	15.94	36347
1FPPOOL	F6H15	1F6	1995/4/7	3/11/2011	5817	15.94	31196
1FPPOOL	F6H60	1F6	1995/4/7	3/11/2011	5817	15.94	31968
1FPPOOL	F6G181	1F6	1993/9/15	3/11/2011	6386	17.50	33924
1FPPOOL	F6H54	1F6	1995/4/7	3/11/2011	5817	15.94	36282
1FPPOOL	F6G179	1F6	1992/3/8	3/11/2011	6942	19.02	29108
1FPPOOL	F6H57	1F6	1995/4/7	3/11/2011	5817	15.94	31942
1FPPOOL	F6H26	1F6	1996/9/1	3/11/2011	5304	14.53	31595
1FPPOOL	F6H32	1F6	1995/4/7	3/11/2011	5817	15.94	36263

1FPPOOL	F6H4	1F6	1995/4/7	3/11/2011	5817	15.94	32203
1FPPOOL	F6H41	1F6	1995/4/7	3/11/2011	5817	15.94	33259
1FPPOOL	F6H39	1F6	1995/4/7	3/11/2011	5817	15.94	31055
1FPPOOL	F6G192	1F6	1993/9/15	3/11/2011	6386	17.50	30656
1FPPOOL	F6H64	1F6	1996/9/1	3/11/2011	5304	14.53	34258
1FPPOOL	F6H35	1F6	1996/9/1	3/11/2011	5304	14.53	31436
1FPPOOL	F6H20	1F6	1995/4/7	3/11/2011	5817	15.94	33140
1FPPOOL	F6G184	1F6	1993/9/15	3/11/2011	6386	17.50	34422
1FPPOOL	F6H50	1F6	1995/4/7	3/11/2011	5817	15.94	32131
1FPPOOL	F6H61	1F6	1996/9/1	3/11/2011	5304	14.53	33993
1FPPOOL	F6H40	1F6	1996/9/1	3/11/2011	5304	14.53	31453
1FPPOOL	F6G186	1F6	1993/9/15	3/11/2011	6386	17.50	30636
1FPPOOL	F6H6	1F6	1993/9/15	3/11/2011	6386	17.50	28288
1FPPOOL	F6H11	1F6	1995/4/7	3/11/2011	5817	15.94	32371
1FPPOOL	F6H63	1F6	1995/4/7	3/11/2011	5817	15.94	31118
1FPPOOL	F6H16	1F6	1995/4/7	3/11/2011	5817	15.94	32102
1FPPOOL	F6G182	1F6	1993/9/15	3/11/2011	6386	17.50	33900
1FPPOOL	F6H23	1F6	1995/4/7	3/11/2011	5817	15.94	36002
1FPPOOL	F6H45	1F6	1995/4/7	3/11/2011	5817	15.94	32236
1FPPOOL	F6H33	1F6	1995/4/7	3/11/2011	5817	15.94	36073
1FPPOOL	F6H62	1F6	1995/4/7	3/11/2011	5817	15.94	30653
1FPPOOL	F6H28	1F6	1995/4/7	3/11/2011	5817	15.94	36151
1FPPOOL	F6H47	1F6	1995/4/7	3/11/2011	5817	15.94	31090
1FPPOOL	F6H37	1F6	1995/4/7	3/11/2011	5817	15.94	36352
1FPPOOL	F6H42	1F6	1995/4/7	3/11/2011	5817	15.94	33039
1FPPOOL	F6H21	1F6	1996/9/1	3/11/2011	5304	14.53	31628
1FPPOOL	F6G177	1F6	1993/9/15	3/11/2011	6386	17.50	35642
1FPPOOL	F6G188	1F6	1993/9/15	3/11/2011	6386	17.50	35886
1FPPOOL	F6G193	1F6	1992/3/8	3/11/2011	6942	19.02	29356
1FPPOOL	F6G187	1F6	1993/9/15	3/11/2011	6386	17.50	30503
1FPPOOL	F6G178	1F6	1993/9/15	3/11/2011	6386	17.50	35539
1FPPOOL	F6H12	1F6	1995/4/7	3/11/2011	5817	15.94	32125
1FPPOOL	F6H9	1F6	1993/9/15	3/11/2011	6386	17.50	28350
1FPPOOL	F6G194	1F6	1993/9/15	3/11/2011	6386	17.50	33544
1FPPOOL	F6H7	1F6	1995/4/7	3/11/2011	5817	15.94	35812
1FPPOOL	F6H29	1F6	1995/4/7	3/11/2011	5817	15.94	36247
1FPPOOL	F6H17	1F6	1995/4/7	3/11/2011	5817	15.94	32834
1FPPOOL	F6H1	1F6	1995/4/7	3/11/2011	5817	15.94	31998
1FPPOOL	F6H19	1F6	1995/4/7	3/11/2011	5817	15.94	32932
1FPPOOL	F6H24	1F6	1995/4/7	3/11/2011	5817	15.94	36243
1FPPOOL	F6H103	1F6	1995/4/7	3/11/2011	5817	15.94	33145
1FPPOOL	F6H130	1F6	1993/9/15	3/11/2011	6386	17.50	28466
1FPPOOL	F6H118	1F6	1993/9/15	3/11/2011	6386	17.50	29900
1FPPOOL	F6H137	1F6	1993/9/15	3/11/2011	6386	17.50	30367
1FPPOOL	F6H120	1F6	1995/4/7	3/11/2011	5817	15.94	32509
1FPPOOL	F6H72	1F6	1998/2/12	3/11/2011	4775	13.08	36636
1FPPOOL	F6H76	1F6	1996/9/1	3/11/2011	5304	14.53	32550
1FPPOOL	F6H93	1F6	1993/9/15	3/11/2011	6386	17.50	28666
1FPPOOL	F6H133	1F6	1996/9/1	3/11/2011	5304	14.53	32651
1FPPOOL	F6H141	1F6	1995/4/7	3/11/2011	5817	15.94	36053
1FPPOOL	F6H88	1F6	1995/4/7	3/11/2011	5817	15.94	32944
1FPPOOL	F6H99	1F6	1996/9/1	3/11/2011	5304	14.53	31665
1FPPOOL	F6H117	1F6	1995/4/7	3/11/2011	5817	15.94	32157

1FPPOOL	F6H107	1F6	1993/9/15	3/11/2011	6386	17.50	30543
1FPPOOL	F6H113	1F6	1995/4/7	3/11/2011	5817	15.94	32193
1FPPOOL	F6H109	1F6	1995/4/7	3/11/2011	5817	15.94	35977
1FPPOOL	F6H83	1F6	1995/4/7	3/11/2011	5817	15.94	32043
1FPPOOL	F6H135	1F6	1995/4/7	3/11/2011	5817	15.94	34801
1FPPOOL	F6H121	1F6	1993/9/15	3/11/2011	6386	17.50	28324
1FPPOOL	F6H126	1F6	1995/4/7	3/11/2011	5817	15.94	29362
1FPPOOL	F6H131	1F6	1995/4/7	3/11/2011	5817	15.94	32128
1FPPOOL	F6H134	1F6	1995/4/7	3/11/2011	5817	15.94	36169
1FPPOOL	F6H90	1F6	1995/4/7	3/11/2011	5817	15.94	36099
1FPPOOL	F6H77	1F6	1995/4/7	3/11/2011	5817	15.94	33483
1FPPOOL	F6H67	1F6	1995/4/7	3/11/2011	5817	15.94	30907
1FPPOOL	F6H96	1F6	1993/9/15	3/11/2011	6386	17.50	29103
1FPPOOL	F6H139	1F6	1993/9/15	3/11/2011	6386	17.50	29976
1FPPOOL	F6H108	1F6	1993/9/15	3/11/2011	6386	17.50	28584
1FPPOOL	F6H136	1F6	1993/9/15	3/11/2011	6386	17.50	29830
1FPPOOL	F6H122	1F6	1993/9/15	3/11/2011	6386	17.50	28070
1FPPOOL	F6H89	1F6	1995/4/7	3/11/2011	5817	15.94	36022
1FPPOOL	F6H95	1F6	1993/9/15	3/11/2011	6386	17.50	29086
1FPPOOL	F6H91	1F6	1995/4/7	3/11/2011	5817	15.94	33115
1FPPOOL	F6H140	1F6	1995/4/7	3/11/2011	5817	15.94	34679
1FPPOOL	F6H66	1F6	1996/9/1	3/11/2011	5304	14.53	34209
1FPPOOL	F6H102	1F6	1996/9/1	3/11/2011	5304	14.53	31790
1FPPOOL	F6H143	1F6	1995/4/7	3/11/2011	5817	15.94	30695
1FPPOOL	F6H142	1F6	1996/9/1	3/11/2011	5304	14.53	32840
1FPPOOL	F6H114	1F6	1996/9/1	3/11/2011	5304	14.53	33476
1FPPOOL	F6H84	1F6	1995/4/7	3/11/2011	5817	15.94	32226
1FPPOOL	F6H123	1F6	1996/9/1	3/11/2011	5304	14.53	33412
1FPPOOL	F6H124	1F6	1996/9/1	3/11/2011	5304	14.53	33414
1FPPOOL	F6H129	1F6	1993/9/15	3/11/2011	6386	17.50	28771
1FPPOOL	F6H78	1F6	1995/4/7	3/11/2011	5817	15.94	33697
1FPPOOL	F6H144	1F6	1993/9/15	3/11/2011	6386	17.50	30471
1FPPOOL	F6H69	1F6	1998/2/12	3/11/2011	4775	13.08	36872
1FPPOOL	F6H127	1F6	1995/4/7	3/11/2011	5817	15.94	31742
1FPPOOL	F6H71	1F6	1998/2/12	3/11/2011	4775	13.08	36683
1FPPOOL	F6H75	1F6	1996/9/1	3/11/2011	5304	14.53	33449
1FPPOOL	F6H132	1F6	1995/4/7	3/11/2011	5817	15.94	31293
1FPPOOL	F6H68	1F6	1998/2/12	3/11/2011	4775	13.08	36808
1FPPOOL	F6H73	1F6	1995/4/7	3/11/2011	5817	15.94	31363
1FPPOOL	F6H97	1F6	1993/9/15	3/11/2011	6386	17.50	28324
1FPPOOL	F6H138	1F6	1993/9/15	3/11/2011	6386	17.50	30546
1FPPOOL	F6H85	1F6	1993/9/15	3/11/2011	6386	17.50	28141
1FPPOOL	F6H170	1F6	1995/4/7	3/11/2011	5817	15.94	34591
1FPPOOL	F6H104	1F6	1995/4/7	3/11/2011	5817	15.94	35823
1FPPOOL	F6H106	1F6	1993/9/15	3/11/2011	6386	17.50	30270
1FPPOOL	F6H115	1F6	1993/9/15	3/11/2011	6386	17.50	29650
1FPPOOL	F6H112	1F6	1993/9/15	3/11/2011	6386	17.50	28194
1FPPOOL	F6H110	1F6	1995/4/7	3/11/2011	5817	15.94	33065
1FPPOOL	F6H82	1F6	1995/4/7	3/11/2011	5817	15.94	30863
1FPPOOL	F6H128	1F6	1995/4/7	3/11/2011	5817	15.94	32186
1FPPOOL	F6H125	1F6	1996/9/1	3/11/2011	5304	14.53	33421
1FPPOOL	F6H145	1F6	1993/9/15	3/11/2011	6386	17.50	30627
1FPPOOL	F6H116	1F6	1995/4/7	3/11/2011	5817	15.94	32001

1FPPOOL	F6H119	1F6	1996/9/1	3/11/2011	5304	14.53	33611
1FPPOOL	F6H101	1F6	1995/4/7	3/11/2011	5817	15.94	34811
1FPPOOL	F6H70	1F6	1995/4/7	3/11/2011	5817	15.94	31142
1FPPOOL	F6H100	1F6	1995/4/7	3/11/2011	5817	15.94	34570
1FPPOOL	F6H86	1F6	1996/9/1	3/11/2011	5304	14.53	31856
1FPPOOL	F6H74	1F6	1995/4/7	3/11/2011	5817	15.94	31484
1FPPOOL	F6H92	1F6	1993/9/15	3/11/2011	6386	17.50	28774
1FPPOOL	F6H79	1F6	1996/9/1	3/11/2011	5304	14.53	32850
1FPPOOL	F6H94	1F6	1995/4/7	3/11/2011	5817	15.94	30942
1FPPOOL	F6H65	1F6	1996/9/1	3/11/2011	5304	14.53	34083
1FPPOOL	F6H80	1F6	1995/4/7	3/11/2011	5817	15.94	29370
1FPPOOL	F6H81	1F6	1996/9/1	3/11/2011	5304	14.53	31583
1FPPOOL	F6H87	1F6	1993/9/15	3/11/2011	6386	17.50	28481
1FPPOOL	F6H111	1F6	1993/9/15	3/11/2011	6386	17.50	28105
1FPPOOL	F6H98	1F6	1993/9/15	3/11/2011	6386	17.50	28805
1FPPOOL	F6H105	1F6	1993/9/15	3/11/2011	6386	17.50	28440
1FPPOOL	F6H207	1F6	1993/9/15	3/11/2011	6386	17.50	28805
1FPPOOL	F6H213	1F6	1993/9/15	3/11/2011	6386	17.50	28576
1FPPOOL	F6H200	1F6	1993/9/15	3/11/2011	6386	17.50	28505
1FPPOOL	F6H177	1F6	1995/4/7	3/11/2011	5817	15.94	32034
1FPPOOL	F6H202	1F6	1995/4/7	3/11/2011	5817	15.94	33113
1FPPOOL	F6H147	1F6	1993/9/15	3/11/2011	6386	17.50	30466
1FPPOOL	F6H159	1F6	1993/9/15	3/11/2011	6386	17.50	30649
1FPPOOL	F6H217	1F6	1995/4/7	3/11/2011	5817	15.94	32847
1FPPOOL	F6H158	1F6	1993/9/15	3/11/2011	6386	17.50	30673
1FPPOOL	F6H184	1F6	1993/9/15	3/11/2011	6386	17.50	28160
1FPPOOL	F6H220	1F6	1993/9/15	3/11/2011	6386	17.50	28101
1FPPOOL	F6H172	1F6	1996/9/1	3/11/2011	5304	14.53	32767
1FPPOOL	F6H188	1F6	1995/4/7	3/11/2011	5817	15.94	31809
1FPPOOL	F6H221	1F6	1995/4/7	3/11/2011	5817	15.94	32011
1FPPOOL	F6H199	1F6	1993/9/15	3/11/2011	6386	17.50	30274
1FPPOOL	F6H183	1F6	1993/9/15	3/11/2011	6386	17.50	28197
1FPPOOL	F6H194	1F6	1993/9/15	3/11/2011	6386	17.50	28074
1FPPOOL	F6H164	1F6	1995/4/7	3/11/2011	5817	15.94	35965
1FPPOOL	F6H167	1F6	1993/9/15	3/11/2011	6386	17.50	30265
1FPPOOL	F6H208	1F6	1993/9/15	3/11/2011	6386	17.50	28007
1FPPOOL	F6H209	1F6	1993/9/15	3/11/2011	6386	17.50	29020
1FPPOOL	F6H214	1F6	1995/4/7	3/11/2011	5817	15.94	32942
1FPPOOL	F6H219	1F6	1996/9/1	3/11/2011	5304	14.53	31658
1FPPOOL	F6H197	1F6	1993/9/15	3/11/2011	6386	17.50	28505
1FPPOOL	F6H185	1F6	1995/4/7	3/11/2011	5817	15.94	32278
1FPPOOL	F6H205	1F6	1995/4/7	3/11/2011	5817	15.94	34598
1FPPOOL	F6H161	1F6	1993/9/15	3/11/2011	6386	17.50	30255
1FPPOOL	F6H228	1F6	1995/4/7	3/11/2011	5817	15.94	33567
1FPPOOL	F6H168	1F6	1993/9/15	3/11/2011	6386	17.50	30129
1FPPOOL	F6H224	1F6	1996/9/1	3/11/2011	5304	14.53	31731
1FPPOOL	F6H174	1F6	1995/4/7	3/11/2011	5817	15.94	32270
1FPPOOL	F6H160	1F6	1993/9/15	3/11/2011	6386	17.50	30304
1FPPOOL	F6H223	1F6	1995/4/7	3/11/2011	5817	15.94	30911
1FPPOOL	F6H216	1F6	1995/4/7	3/11/2011	5817	15.94	35942
1FPPOOL	F6H203	1F6	1996/9/1	3/11/2011	5304	14.53	31904
1FPPOOL	F6H179	1F6	1995/4/7	3/11/2011	5817	15.94	29235
1FPPOOL	F6H150	1F6	1995/4/7	3/11/2011	5817	15.94	32030

1FPPOOL	F6H149	1F6	1995/4/7	3/11/2011	5817	15.94	34043
1FPPOOL	F6H190	1F6	1993/9/15	3/11/2011	6386	17.50	29709
1FPPOOL	F6H195	1F6	1995/4/7	3/11/2011	5817	15.94	33196
1FPPOOL	F6H222	1F6	1995/4/7	3/11/2011	5817	15.94	31908
1FPPOOL	F6H169	1F6	1993/9/15	3/11/2011	6386	17.50	29672
1FPPOOL	F6H206	1F6	1996/9/1	3/11/2011	5304	14.53	31696
1FPPOOL	F6H210	1F6	1993/9/15	3/11/2011	6386	17.50	28954
1FPPOOL	F6H152	1F6	1995/4/7	3/11/2011	5817	15.94	34250
1FPPOOL	F6H173	1F6	1995/4/7	3/11/2011	5817	15.94	31745
1FPPOOL	F6H157	1F6	1995/4/7	3/11/2011	5817	15.94	30863
1FPPOOL	F6H215	1F6	1995/4/7	3/11/2011	5817	15.94	36020
1FPPOOL	F6H225	1F6	1995/4/7	3/11/2011	5817	15.94	29248
1FPPOOL	F6H155	1F6	1995/4/7	3/11/2011	5817	15.94	31914
1FPPOOL	F6H175	1F6	1993/9/15	3/11/2011	6386	17.50	28784
1FPPOOL	F6H180	1F6	1995/4/7	3/11/2011	5817	15.94	29219
1FPPOOL	F6H218	1F6	1993/9/15	3/11/2011	6386	17.50	28389
1FPPOOL	F6H227	1F6	1995/4/7	3/11/2011	5817	15.94	33716
1FPPOOL	F6H186	1F6	1996/9/1	3/11/2011	5304	14.53	33307
1FPPOOL	F6H196	1F6	1995/4/7	3/11/2011	5817	15.94	35619
1FPPOOL	F6H226	1F6	1996/9/1	3/11/2011	5304	14.53	32864
1FPPOOL	F6H204	1F6	1995/4/7	3/11/2011	5817	15.94	34577
1FPPOOL	F6H191	1F6	1996/9/1	3/11/2011	5304	14.53	33358
1FPPOOL	F6H166	1F6	1993/9/15	3/11/2011	6386	17.50	29940
1FPPOOL	F6H153	1F6	1995/4/7	3/11/2011	5817	15.94	34178
1FPPOOL	F6H211	1F6	1995/4/7	3/11/2011	5817	15.94	31250
1FPPOOL	F6H212	1F6	1993/9/15	3/11/2011	6386	17.50	28555
1FPPOOL	F6H198	1F6	1993/9/15	3/11/2011	6386	17.50	30383
1FPPOOL	F6H201	1F6	1995/4/7	3/11/2011	5817	15.94	35653
1FPPOOL	F6H151	1F6	1995/4/7	3/11/2011	5817	15.94	32053
1FPPOOL	F6H154	1F6	1995/4/7	3/11/2011	5817	15.94	32089
1FPPOOL	F6H162	1F6	1995/4/7	3/11/2011	5817	15.94	30836
1FPPOOL	F6H182	1F6	1996/9/1	3/11/2011	5304	14.53	33700
1FPPOOL	F6H156	1F6	1995/4/7	3/11/2011	5817	15.94	34179
1FPPOOL	F6H176	1F6	1993/9/15	3/11/2011	6386	17.50	28367
1FPPOOL	F6H163	1F6	1996/9/1	3/11/2011	5304	14.53	32707
1FPPOOL	F6H178	1F6	1995/4/7	3/11/2011	5817	15.94	31285
1FPPOOL	F6H193	1F6	1993/9/15	3/11/2011	6386	17.50	28098
1FPPOOL	F6H146	1F6	1993/9/15	3/11/2011	6386	17.50	30534
1FPPOOL	F6H171	1F6	1995/4/7	3/11/2011	5817	15.94	35832
1FPPOOL	F6H148	1F6	1995/4/7	3/11/2011	5817	15.94	30925
1FPPOOL	F6H192	1F6	1995/4/7	3/11/2011	5817	15.94	32323
1FPPOOL	F6H189	1F6	1995/4/7	3/11/2011	5817	15.94	31802
1FPPOOL	F6H181	1F6	1996/9/1	3/11/2011	5304	14.53	33330
1FPPOOL	F6H165	1F6	1995/4/7	3/11/2011	5817	15.94	34877
1FPPOOL	F6H187	1F6	1993/9/15	3/11/2011	6386	17.50	29838
1FPPOOL	F6J61	1F6	1995/4/7	3/11/2011	5817	15.94	31623
1FPPOOL	F6J57	1F6	1996/9/1	3/11/2011	5304	14.53	33433
1FPPOOL	F6H230	1F6	1996/9/1	3/11/2011	5304	14.53	33607
1FPPOOL	F6J67	1F6	1996/9/1	3/11/2011	5304	14.53	34930
1FPPOOL	F6J54	1F6	1995/4/7	3/11/2011	5817	15.94	30023
1FPPOOL	F6J3	1F6	1995/4/7	3/11/2011	5817	15.94	30924
1FPPOOL	F6J8	1F6	1996/9/1	3/11/2011	5304	14.53	33941
1FPPOOL	F6J72	1F6	1996/9/1	3/11/2011	5304	14.53	32445

1FPPOOL	F6J47	1F6	1995/4/7	3/11/2011	5817	15.94	30457
1FPPOOL	F6H231	1F6	1995/4/7	3/11/2011	5817	15.94	31368
1FPPOOL	F6J42	1F6	1996/9/1	3/11/2011	5304	14.53	37644
1FPPOOL	F6J37	1F6	1998/2/12	3/11/2011	4775	13.08	32205
1FPPOOL	F6J74	1F6	1996/9/1	3/11/2011	5304	14.53	32812
1FPPOOL	F6J53	1F6	1995/4/7	3/11/2011	5817	15.94	30604
1FPPOOL	F6J78	1F6	1995/4/7	3/11/2011	5817	15.94	30304
1FPPOOL	F6J63	1F6	1996/9/1	3/11/2011	5304	14.53	32313
1FPPOOL	F6J68	1F6	1996/9/1	3/11/2011	5304	14.53	35188
1FPPOOL	F6J69	1F6	1995/4/7	3/11/2011	5817	15.94	31185
1FPPOOL	F6J75	1F6	1996/9/1	3/11/2011	5304	14.53	33018
1FPPOOL	F6J51	1F6	1995/4/7	3/11/2011	5817	15.94	29901
1FPPOOL	F6J9	1F6	1996/9/1	3/11/2011	5304	14.53	34028
1FPPOOL	F6J16	1F6	1998/2/12	3/11/2011	4775	13.08	32550
1FPPOOL	F6J77	1F6	1996/9/1	3/11/2011	5304	14.53	32526
1FPPOOL	F6J76	1F6	1998/2/12	3/11/2011	4775	13.08	34947
1FPPOOL	F6J58	1F6	1995/4/7	3/11/2011	5817	15.94	31265
1FPPOOL	F6J29	1F6	1998/2/12	3/11/2011	4775	13.08	32335
1FPPOOL	F6H232	1F6	1995/4/7	3/11/2011	5817	15.94	31333
1FPPOOL	F6J43	1F6	1995/4/7	3/11/2011	5817	15.94	30102
1FPPOOL	F6J49	1F6	1996/9/1	3/11/2011	5304	14.53	34964
1FPPOOL	F6J65	1F6	1995/4/7	3/11/2011	5817	15.94	29736
1FPPOOL	F6J79	1F6	1996/9/1	3/11/2011	5304	14.53	37681
1FPPOOL	F6J70	1F6	1995/4/7	3/11/2011	5817	15.94	29843
1FPPOOL	F6J10	1F6	1995/4/7	3/11/2011	5817	15.94	30536
1FPPOOL	F6J64	1F6	1995/4/7	3/11/2011	5817	15.94	29801
1FPPOOL	F6J2	1F6	1998/2/12	3/11/2011	4775	13.08	36266
1FPPOOL	F6J7	1F6	1996/9/1	3/11/2011	5304	14.53	34096
1FPPOOL	F6J44	1F6	1996/9/1	3/11/2011	5304	14.53	34807
1FPPOOL	F6J83	1F6	1995/4/7	3/11/2011	5817	15.94	31208
1FPPOOL	F6J4	1F6	1998/2/12	3/11/2011	4775	13.08	36037
1FPPOOL	F6J24	1F6	1998/2/12	3/11/2011	4775	13.08	32101
1FPPOOL	F6J81	1F6	1995/4/7	3/11/2011	5817	15.94	31168
1FPPOOL	F6J73	1F6	1998/2/12	3/11/2011	4775	13.08	34923
1FPPOOL	F6J109	1F6	1996/9/1	3/11/2011	5304	14.53	34935
1FPPOOL	F6J40	1F6	1998/2/12	3/11/2011	4775	13.08	32211
1FPPOOL	F6J50	1F6	1995/4/7	3/11/2011	5817	15.94	30317
1FPPOOL	F6J80	1F6	1995/4/7	3/11/2011	5817	15.94	30152
1FPPOOL	F6J45	1F6	1996/9/1	3/11/2011	5304	14.53	32757
1FPPOOL	F6J66	1F6	1995/4/7	3/11/2011	5817	15.94	30928
1FPPOOL	F6J62	1F6	1995/4/7	3/11/2011	5817	15.94	29328
1FPPOOL	F6J52	1F6	1995/4/7	3/11/2011	5817	15.94	30405
1FPPOOL	F6J55	1F6	1995/4/7	3/11/2011	5817	15.94	29488
1FPPOOL	F6J1	1F6	1998/2/12	3/11/2011	4775	13.08	36655
1FPPOOL	F6J11	1F6	1995/4/7	3/11/2011	5817	15.94	30459
1FPPOOL	F6J71	1F6	1995/4/7	3/11/2011	5817	15.94	30384
1FPPOOL	F6H229	1F6	1996/9/1	3/11/2011	5304	14.53	32766
1FPPOOL	F6J12	1F6	1996/9/1	3/11/2011	5304	14.53	33968
1FPPOOL	F6J13	1F6	1998/2/12	3/11/2011	4775	13.08	32627
1FPPOOL	F6J46	1F6	1995/4/7	3/11/2011	5817	15.94	30172
1FPPOOL	F6J48	1F6	1996/9/1	3/11/2011	5304	14.53	33063
1FPPOOL	F6J6	1F6	1995/4/7	3/11/2011	5817	15.94	30675
1FPPOOL	F6J41	1F6	1996/9/1	3/11/2011	5304	14.53	37549

1FPPOOL	F6J56	1F6	1996/9/1	3/11/2011	5304	14.53	32365
1FPPOOL	F6J148	1F6	1995/4/7	3/11/2011	5817	15.94	29603
1FPPOOL	F6J126	1F6	1995/4/7	3/11/2011	5817	15.94	29537
1FPPOOL	F6J153	1F6	1995/4/7	3/11/2011	5817	15.94	31424
1FPPOOL	F6J141	1F6	1995/4/7	3/11/2011	5817	15.94	31460
1FPPOOL	F6J143	1F6	1996/9/1	3/11/2011	5304	14.53	32758
1FPPOOL	F6J93	1F6	1995/4/7	3/11/2011	5817	15.94	29565
1FPPOOL	F6J97	1F6	1998/2/12	3/11/2011	4775	13.08	35772
1FPPOOL	F6J158	1F6	1995/4/7	3/11/2011	5817	15.94	31069
1FPPOOL	F6J134	1F6	1995/4/7	3/11/2011	5817	15.94	30374
1FPPOOL	F6J124	1F6	1996/9/1	3/11/2011	5304	14.53	35116
1FPPOOL	F6J111	1F6	1996/9/1	3/11/2011	5304	14.53	34968
1FPPOOL	F6J116	1F6	1996/9/1	3/11/2011	5304	14.53	35149
1FPPOOL	F6J147	1F6	1996/9/1	3/11/2011	5304	14.53	35417
1FPPOOL	F6J135	1F6	1996/9/1	3/11/2011	5304	14.53	32980
1FPPOOL	F6J87	1F6	1998/2/12	3/11/2011	4775	13.08	35169
1FPPOOL	F6J140	1F6	1995/4/7	3/11/2011	5817	15.94	31100
1FPPOOL	F6J129	1F6	1995/4/7	3/11/2011	5817	15.94	31002
1FPPOOL	F6J103	1F6	1995/4/7	3/11/2011	5817	15.94	31324
1FPPOOL	F6J106	1F6	1996/9/1	3/11/2011	5304	14.53	32974
1FPPOOL	F6J161	1F6	1995/4/7	3/11/2011	5817	15.94	29809
1FPPOOL	F6J149	1F6	1995/4/7	3/11/2011	5817	15.94	29302
1FPPOOL	F6J155	1F6	1995/4/7	3/11/2011	5817	15.94	31241
1FPPOOL	F6J160	1F6	1995/4/7	3/11/2011	5817	15.94	31001
1FPPOOL	F6J125	1F6	1996/9/1	3/11/2011	5304	14.53	34618
1FPPOOL	F6J167	1F6	1996/9/1	3/11/2011	5304	14.53	32785
1FPPOOL	F6J98	1F6	1996/9/1	3/11/2011	5304	14.53	33063
1FPPOOL	F6J130	1F6	1996/9/1	3/11/2011	5304	14.53	35277
1FPPOOL	F6J163	1F6	1995/4/7	3/11/2011	5817	15.94	30523
1FPPOOL	F6J117	1F6	1996/9/1	3/11/2011	5304	14.53	34761
1FPPOOL	F6J144	1F6	1998/2/12	3/11/2011	4775	13.08	35742
1FPPOOL	F6J113	1F6	1995/4/7	3/11/2011	5817	15.94	30526
1FPPOOL	F6J118	1F6	1995/4/7	3/11/2011	5817	15.94	29674
1FPPOOL	F6J86	1F6	1995/4/7	3/11/2011	5817	15.94	31405
1FPPOOL	F6J131	1F6	1996/9/1	3/11/2011	5304	14.53	34586
1FPPOOL	F6J136	1F6	1995/4/7	3/11/2011	5817	15.94	31885
1FPPOOL	F6J162	1F6	1996/9/1	3/11/2011	5304	14.53	37349
1FPPOOL	F6J107	1F6	1995/4/7	3/11/2011	5817	15.94	30866
1FPPOOL	F6J145	1F6	1998/2/12	3/11/2011	4775	13.08	35770
1FPPOOL	F6J156	1F6	1995/4/7	3/11/2011	5817	15.94	29380
1FPPOOL	F6J112	1F6	1995/4/7	3/11/2011	5817	15.94	30554
1FPPOOL	F6J166	1F6	1996/9/1	3/11/2011	5304	14.53	32868
1FPPOOL	F6J91	1F6	1996/9/1	3/11/2011	5304	14.53	34848
1FPPOOL	F6J96	1F6	1998/2/12	3/11/2011	4775	13.08	35304
1FPPOOL	F6J164	1F6	1996/9/1	3/11/2011	5304	14.53	32332
1FPPOOL	F6J99	1F6	1996/9/1	3/11/2011	5304	14.53	32914
1FPPOOL	F6J94	1F6	1996/9/1	3/11/2011	5304	14.53	35015
1FPPOOL	F6J108	1F6	1996/9/1	3/11/2011	5304	14.53	34985
1FPPOOL	F6J114	1F6	1998/2/12	3/11/2011	4775	13.08	35160
1FPPOOL	F6J88	1F6	1995/4/7	3/11/2011	5817	15.94	31362
1FPPOOL	F6J89	1F6	1995/4/7	3/11/2011	5817	15.94	30060
1FPPOOL	F6J85	1F6	1995/4/7	3/11/2011	5817	15.94	29786
1FPPOOL	F6J92	1F6	1995/4/7	3/11/2011	5817	15.94	29246

1FPPOOL	F6J150	1F6	1996/9/1	3/11/2011	5304	14.53	34998
1FPPOOL	F6J137	1F6	1995/4/7	3/11/2011	5817	15.94	31274
1FPPOOL	F6J138	1F6	1995/4/7	3/11/2011	5817	15.94	31118
1FPPOOL	F6J165	1F6	1998/2/12	3/11/2011	4775	13.08	35243
1FPPOOL	F6J102	1F6	1995/4/7	3/11/2011	5817	15.94	31009
1FPPOOL	F6J132	1F6	1996/9/1	3/11/2011	5304	14.53	34693
1FPPOOL	F6J152	1F6	1995/4/7	3/11/2011	5817	15.94	30183
1FPPOOL	F6J139	1F6	1995/4/7	3/11/2011	5817	15.94	30964
1FPPOOL	F6J142	1F6	1996/9/1	3/11/2011	5304	14.53	32680
1FPPOOL	F6J146	1F6	1996/9/1	3/11/2011	5304	14.53	32621
1FPPOOL	F6J90	1F6	1996/9/1	3/11/2011	5304	14.53	37625
1FPPOOL	F6J100	1F6	1995/4/7	3/11/2011	5817	15.94	31600
1FPPOOL	F6J123	1F6	1995/4/7	3/11/2011	5817	15.94	29880
1FPPOOL	F6J121	1F6	1995/4/7	3/11/2011	5817	15.94	30940
1FPPOOL	F6J157	1F6	1995/4/7	3/11/2011	5817	15.94	29412
1FPPOOL	F6J95	1F6	1996/9/1	3/11/2011	5304	14.53	32972
1FPPOOL	F6J115	1F6	1995/4/7	3/11/2011	5817	15.94	29677
1FPPOOL	F6J101	1F6	1995/4/7	3/11/2011	5817	15.94	31352
1FPPOOL	F6J151	1F6	1996/9/1	3/11/2011	5304	14.53	37710
1FPPOOL	F6J84	1F6	1995/4/7	3/11/2011	5817	15.94	29452
1FPPOOL	F6J104	1F6	1995/4/7	3/11/2011	5817	15.94	31398
1FPPOOL	F6J110	1F6	1996/9/1	3/11/2011	5304	14.53	34997
1FPPOOL	F6J122	1F6	1998/2/12	3/11/2011	4775	13.08	34900
1FPPOOL	F6J133	1F6	1996/9/1	3/11/2011	5304	14.53	34830
1FPPOOL	F6J120	1F6	1995/4/7	3/11/2011	5817	15.94	30614
1FPPOOL	F6J105	1F6	1995/4/7	3/11/2011	5817	15.94	31711
1FPPOOL	F6J128	1F6	1995/4/7	3/11/2011	5817	15.94	30508
1FPPOOL	F6J206	1F6	1996/9/1	3/11/2011	5304	14.53	34399
1FPPOOL	F6J228	1F6	1996/9/1	3/11/2011	5304	14.53	34070
1FPPOOL	F6J226	1F6	1998/2/12	3/11/2011	4775	13.08	35797
1FPPOOL	F6J215	1F6	1996/9/1	3/11/2011	5304	14.53	33934
1FPPOOL	F6J216	1F6	1996/9/1	3/11/2011	5304	14.53	34029
1FPPOOL	F6J180	1F6	1995/4/7	3/11/2011	5817	15.94	31531
1FPPOOL	F6J227	1F6	1996/9/1	3/11/2011	5304	14.53	34693
1FPPOOL	F6J170	1F6	1995/4/7	3/11/2011	5817	15.94	30060
1FPPOOL	F6J209	1F6	1998/2/12	3/11/2011	4775	13.08	36545
1FPPOOL	F6J218	1F6	1996/9/1	3/11/2011	5304	14.53	34530
1FPPOOL	F6J211	1F6	1996/9/1	3/11/2011	5304	14.53	34057
1FPPOOL	F6J222	1F6	1998/2/12	3/11/2011	4775	13.08	35857
1FPPOOL	F6J219	1F6	1998/2/12	3/11/2011	4775	13.08	35561
1FPPOOL	F6J186	1F6	1995/4/7	3/11/2011	5817	15.94	29364
1FPPOOL	F6J197	1F6	1996/9/1	3/11/2011	5304	14.53	35013
1FPPOOL	F6J207	1F6	1998/2/12	3/11/2011	4775	13.08	36635
1FPPOOL	F6J220	1F6	1996/9/1	3/11/2011	5304	14.53	34161
1FPPOOL	F6J225	1F6	1996/9/1	3/11/2011	5304	14.53	33804
1FPPOOL	F6J212	1F6	1998/2/12	3/11/2011	4775	13.08	36884
1FPPOOL	F6J188	1F6	1995/4/7	3/11/2011	5817	15.94	30265
1FPPOOL	F6J217	1F6	1996/9/1	3/11/2011	5304	14.53	34207
1FPPOOL	F6J213	1F6	1996/9/1	3/11/2011	5304	14.53	34352
1FPPOOL	F6J229	1F6	1996/9/1	3/11/2011	5304	14.53	33475
1FPPOOL	F6K12	1F6	1996/9/1	3/11/2011	5304	14.53	32488
1FPPOOL	F6J208	1F6	1998/2/12	3/11/2011	4775	13.08	36995
1FPPOOL	F6J196	1F6	1996/9/1	3/11/2011	5304	14.53	32551

1FPPOOL	F6J173	1F6	1996/9/1	3/11/2011	5304	14.53	34727
1FPPOOL	F6J174	1F6	1996/9/1	3/11/2011	5304	14.53	34927
1FPPOOL	F6J221	1F6	1996/9/1	3/11/2011	5304	14.53	33991
1FPPOOL	F6J198	1F6	1995/4/7	3/11/2011	5817	15.94	30124
1FPPOOL	F6J200	1F6	1996/9/1	3/11/2011	5304	14.53	37145
1FPPOOL	F6J224	1F6	1996/9/1	3/11/2011	5304	14.53	33960
1FPPOOL	F6J199	1F6	1996/9/1	3/11/2011	5304	14.53	37178
1FPPOOL	F6J189	1F6	1995/4/7	3/11/2011	5817	15.94	30110
1FPPOOL	F6J190	1F6	1995/4/7	3/11/2011	5817	15.94	29759
1FPPOOL	F6J183	1F6	1995/4/7	3/11/2011	5817	15.94	31403
1FPPOOL	F6J184	1F6	1995/4/7	3/11/2011	5817	15.94	29207
1FPPOOL	F6J193	1F6	1996/9/1	3/11/2011	5304	14.53	32486
1FPPOOL	F6J191	1F6	1995/4/7	3/11/2011	5817	15.94	30120
1FPPOOL	F6J194	1F6	1995/4/7	3/11/2011	5817	15.94	30487
1FPPOOL	F6J192	1F6	1996/9/1	3/11/2011	5304	14.53	34972
1FPPOOL	F6J205	1F6	1996/9/1	3/11/2011	5304	14.53	34181
1FPPOOL	F6J177	1F6	1995/4/7	3/11/2011	5817	15.94	29384
1FPPOOL	F6J230	1F6	1996/9/1	3/11/2011	5304	14.53	33523
1FPPOOL	F6J175	1F6	1995/4/7	3/11/2011	5817	15.94	30949
1FPPOOL	F6J176	1F6	1995/4/7	3/11/2011	5817	15.94	29498
1FPPOOL	F6J169	1F6	1998/2/12	3/11/2011	4775	13.08	35560
1FPPOOL	F6J231	1F6	1996/9/1	3/11/2011	5304	14.53	33954
1FPPOOL	F6J185	1F6	1998/2/12	3/11/2011	4775	13.08	35599
1FPPOOL	F6J214	1F6	1996/9/1	3/11/2011	5304	14.53	33896
1FPPOOL	F6K5	1F6	1996/9/1	3/11/2011	5304	14.53	32346
1FPPOOL	F6J223	1F6	1998/2/12	3/11/2011	4775	13.08	35792
1FPPOOL	F6J210	1F6	1996/9/1	3/11/2011	5304	14.53	33887
1FPPOOL	F6J178	1F6	1996/9/1	3/11/2011	5304	14.53	32501
1FPPOOL	F6J179	1F6	1995/4/7	3/11/2011	5817	15.94	29269
1FPPOOL	F6J187	1F6	1995/4/7	3/11/2011	5817	15.94	29790
1FPPOOL	F6J171	1F6	1995/4/7	3/11/2011	5817	15.94	29545
1FPPOOL	F6J172	1F6	1995/4/7	3/11/2011	5817	15.94	31042
1FPPOOL	F6J204	1F6	1998/2/12	3/11/2011	4775	13.08	35537
1FPPOOL	F6J195	1F6	1995/4/7	3/11/2011	5817	15.94	30387
1FPPOOL	F6J232	1F6	1996/9/1	3/11/2011	5304	14.53	34351
1FPPOOL	F6K50	1F6	1996/9/1	3/11/2011	5304	14.53	34510
1FPPOOL	F6K55	1F6	1996/9/1	3/11/2011	5304	14.53	34433
1FPPOOL	F6K44	1F6	1996/9/1	3/11/2011	5304	14.53	34407
1FPPOOL	F6J241	1F6	1998/2/12	3/11/2011	4775	13.08	35290
1FPPOOL	F6K14	1F6	1998/2/12	3/11/2011	4775	13.08	34013
1FPPOOL	F6K2	1F6	1998/2/12	3/11/2011	4775	13.08	35831
1FPPOOL	F6K31	1F6	1996/9/1	3/11/2011	5304	14.53	33749
1FPPOOL	F6K36	1F6	1996/9/1	3/11/2011	5304	14.53	34262
1FPPOOL	F6K59	1F6	1998/2/12	3/11/2011	4775	13.08	33679
1FPPOOL	F6K10	1F6	1996/9/1	3/11/2011	5304	14.53	33375
1FPPOOL	F6K19	1F6	1998/2/12	3/11/2011	4775	13.08	33863
1FPPOOL	F6K49	1F6	1996/9/1	3/11/2011	5304	14.53	33615
1FPPOOL	F6K24	1F6	1998/2/12	3/11/2011	4775	13.08	34064
1FPPOOL	F6J236	1F6	1998/2/12	3/11/2011	4775	13.08	36708
1FPPOOL	F6K45	1F6	1996/9/1	3/11/2011	5304	14.53	34536
1FPPOOL	F6K7	1F6	1996/9/1	3/11/2011	5304	14.53	33260
1FPPOOL	F6K9	1F6	1998/2/12	3/11/2011	4775	13.08	34126
1FPPOOL	F6K56	1F6	1998/2/12	3/11/2011	4775	13.08	33491

1FPPOOL	F6K62	1F6	1998/2/12	3/11/2011	4775	13.08	34092
1FPPOOL	F6K63	1F6	1996/9/1	3/11/2011	5304	14.53	34167
1FPPOOL	F6K65	1F6	1998/2/12	3/11/2011	4775	13.08	34194
1FPPOOL	F6K64	1F6	1996/9/1	3/11/2011	5304	14.53	34461
1FPPOOL	F6K66	1F6	1996/9/1	3/11/2011	5304	14.53	33104
1FPPOOL	F6K20	1F6	1998/2/12	3/11/2011	4775	13.08	35478
1FPPOOL	F6J237	1F6	1998/2/12	3/11/2011	4775	13.08	36402
1FPPOOL	F6K37	1F6	1998/2/12	3/11/2011	4775	13.08	35172
1FPPOOL	F6J235	1F6	1996/9/1	3/11/2011	5304	14.53	34051
1FPPOOL	F6K38	1F6	1998/2/12	3/11/2011	4775	13.08	35847
1FPPOOL	F6K57	1F6	1998/2/12	3/11/2011	4775	13.08	35170
1FPPOOL	F6K61	1F6	1996/9/1	3/11/2011	5304	14.53	33199
1FPPOOL	F6K47	1F6	1998/2/12	3/11/2011	4775	13.08	35181
1FPPOOL	F6J234	1F6	1996/9/1	3/11/2011	5304	14.53	33897
1FPPOOL	F6K69	1F6	1996/9/1	3/11/2011	5304	14.53	34038
1FPPOOL	F6K52	1F6	1998/2/12	3/11/2011	4775	13.08	35156
1FPPOOL	F6K42	1F6	1996/9/1	3/11/2011	5304	14.53	34339
1FPPOOL	F6J240	1F6	1996/9/1	3/11/2011	5304	14.53	34312
1FPPOOL	F6K67	1F6	1996/9/1	3/11/2011	5304	14.53	33434
1FPPOOL	F6J242	1F6	1998/2/12	3/11/2011	4775	13.08	35375
1FPPOOL	F6K33	1F6	1998/2/12	3/11/2011	4775	13.08	35859
1FPPOOL	F6K28	1F6	1996/9/1	3/11/2011	5304	14.53	33569
1FPPOOL	F6K21	1F6	1998/2/12	3/11/2011	4775	13.08	34946
1FPPOOL	F6K60	1F6	1996/9/1	3/11/2011	5304	14.53	34447
1FPPOOL	F6K92	1F6	1998/2/12	3/11/2011	4775	13.08	36213
1FPPOOL	F6K29	1F6	1996/9/1	3/11/2011	5304	14.53	33887
1FPPOOL	F6K39	1F6	1996/9/1	3/11/2011	5304	14.53	32430
1FPPOOL	F6K54	1F6	1996/9/1	3/11/2011	5304	14.53	33919
1FPPOOL	F6K1	1F6	1996/9/1	3/11/2011	5304	14.53	33323
1FPPOOL	F6K43	1F6	1996/9/1	3/11/2011	5304	14.53	34147
1FPPOOL	F6K48	1F6	1996/9/1	3/11/2011	5304	14.53	32539
1FPPOOL	F6J238	1F6	1998/2/12	3/11/2011	4775	13.08	36702
1FPPOOL	F6K4	1F6	1996/9/1	3/11/2011	5304	14.53	33240
1FPPOOL	F6K25	1F6	1998/2/12	3/11/2011	4775	13.08	35298
1FPPOOL	F6K58	1F6	1998/2/12	3/11/2011	4775	13.08	35151
1FPPOOL	F6K53	1F6	1996/9/1	3/11/2011	5304	14.53	34493
1FPPOOL	F6J233	1F6	1998/2/12	3/11/2011	4775	13.08	36825
1FPPOOL	F6K35	1F6	1996/9/1	3/11/2011	5304	14.53	33929
1FPPOOL	F6J239	1F6	1996/9/1	3/11/2011	5304	14.53	34311
1FPPOOL	F6K8	1F6	1998/2/12	3/11/2011	4775	13.08	33640
1FPPOOL	F6K23	1F6	1996/9/1	3/11/2011	5304	14.53	32377
1FPPOOL	F6K30	1F6	1996/9/1	3/11/2011	5304	14.53	34068
1FPPOOL	F6K132	1F6	1998/2/12	3/11/2011	4775	13.08	35883
1FPPOOL	F6K78	1F6	1998/2/12	3/11/2011	4775	13.08	36098
1FPPOOL	F6K83	1F6	1998/2/12	3/11/2011	4775	13.08	34134
1FPPOOL	F6K96	1F6	1996/9/1	3/11/2011	5304	14.53	34136
1FPPOOL	F6K141	1F6	1998/2/12	3/11/2011	4775	13.08	33975
1FPPOOL	F6K95	1F6	1996/9/1	3/11/2011	5304	14.53	34343
1FPPOOL	F6K101	1F6	1996/9/1	3/11/2011	5304	14.53	34505
1FPPOOL	F6K106	1F6	1998/2/12	3/11/2011	4775	13.08	33738
1FPPOOL	F6K87	1F6	1998/2/12	3/11/2011	4775	13.08	36276
1FPPOOL	F6K73	1F6	1998/2/12	3/11/2011	4775	13.08	35870
1FPPOOL	F6K119	1F6	1998/2/12	3/11/2011	4775	13.08	35308

1FPPOOL	F6K146	1F6	1998/2/12	3/11/2011	4775	13.08	33986
1FPPOOL	F6K110	1F6	1996/9/1	3/11/2011	5304	14.53	34156
1FPPOOL	F6K70	1F6	1996/9/1	3/11/2011	5304	14.53	34344
1FPPOOL	F6K145	1F6	1998/2/12	3/11/2011	4775	13.08	35741
1FPPOOL	F6K97	1F6	1998/2/12	3/11/2011	4775	13.08	35745
1FPPOOL	F6K109	1F6	1998/2/12	3/11/2011	4775	13.08	33636
1FPPOOL	F6K102	1F6	1996/9/1	3/11/2011	5304	14.53	34267
1FPPOOL	F6K72	1F6	1996/9/1	3/11/2011	5304	14.53	33152
1FPPOOL	F6K115	1F6	1996/9/1	3/11/2011	5304	14.53	34334
1FPPOOL	F6K120	1F6	1996/9/1	3/11/2011	5304	14.53	34424
1FPPOOL	F6K147	1F6	1998/2/12	3/11/2011	4775	13.08	35234
1FPPOOL	F6K91	1F6	1996/9/1	3/11/2011	5304	14.53	33864
1FPPOOL	F6K129	1F6	1996/9/1	3/11/2011	5304	14.53	34063
1FPPOOL	F6K150	1F6	1998/2/12	3/11/2011	4775	13.08	34082
1FPPOOL	F6K134	1F6	1996/9/1	3/11/2011	5304	14.53	33945
1FPPOOL	F6K74	1F6	1996/9/1	3/11/2011	5304	14.53	34053
1FPPOOL	F6K79	1F6	1998/2/12	3/11/2011	4775	13.08	33776
1FPPOOL	F6K77	1F6	1996/9/1	3/11/2011	5304	14.53	34138
1FPPOOL	F6K82	1F6	1998/2/12	3/11/2011	4775	13.08	33998
1FPPOOL	F6K98	1F6	1996/9/1	3/11/2011	5304	14.53	33024
1FPPOOL	F6K103	1F6	1998/2/12	3/11/2011	4775	13.08	34191
1FPPOOL	F6K117	1F6	1996/9/1	3/11/2011	5304	14.53	32834
1FPPOOL	F6K142	1F6	1998/2/12	3/11/2011	4775	13.08	35616
1FPPOOL	F6K104	1F6	1996/9/1	3/11/2011	5304	14.53	32951
1FPPOOL	F6K121	1F6	1996/9/1	3/11/2011	5304	14.53	34194
1FPPOOL	F6K175	1F6	1998/2/12	3/11/2011	4775	13.08	36419
1FPPOOL	F6K111	1F6	1996/9/1	3/11/2011	5304	14.53	33579
1FPPOOL	F6K130	1F6	1996/9/1	3/11/2011	5304	14.53	34295
1FPPOOL	F6K122	1F6	1996/9/1	3/11/2011	5304	14.53	34332
1FPPOOL	F6K116	1F6	1996/9/1	3/11/2011	5304	14.53	33612
1FPPOOL	F6K125	1F6	1998/2/12	3/11/2011	4775	13.08	35342
1FPPOOL	F6K136	1F6	1996/9/1	3/11/2011	5304	14.53	33789
1FPPOOL	F6K123	1F6	1996/9/1	3/11/2011	5304	14.53	34426
1FPPOOL	F6K99	1F6	1996/9/1	3/11/2011	5304	14.53	33188
1FPPOOL	F6K126	1F6	1996/9/1	3/11/2011	5304	14.53	32344
1FPPOOL	F6K167	1F6	1998/2/12	3/11/2011	4775	13.08	34892
1FPPOOL	F6K131	1F6	1998/2/12	3/11/2011	4775	13.08	34940
1FPPOOL	F6K93	1F6	1996/9/1	3/11/2011	5304	14.53	33449
1FPPOOL	F6K107	1F6	1998/2/12	3/11/2011	4775	13.08	35225
1FPPOOL	F6K88	1F6	1996/9/1	3/11/2011	5304	14.53	34150
1FPPOOL	F6K86	1F6	1998/2/12	3/11/2011	4775	13.08	34049
1FPPOOL	F6K135	1F6	1996/9/1	3/11/2011	5304	14.53	33730
1FPPOOL	F6K71	1F6	1998/2/12	3/11/2011	4775	13.08	35791
1FPPOOL	F6K94	1F6	1996/9/1	3/11/2011	5304	14.53	32457
1FPPOOL	F6K112	1F6	1996/9/1	3/11/2011	5304	14.53	34674
1FPPOOL	F6K137	1F6	1996/9/1	3/11/2011	5304	14.53	33620
1FPPOOL	F6K105	1F6	1996/9/1	3/11/2011	5304	14.53	34293
1FPPOOL	F6K89	1F6	1998/2/12	3/11/2011	4775	13.08	34933
1FPPOOL	F6K108	1F6	1998/2/12	3/11/2011	4775	13.08	34920
1FPPOOL	F6K153	1F6	1996/9/1	3/11/2011	5304	14.53	32475
1FPPOOL	F6K158	1F6	1996/9/1	3/11/2011	5304	14.53	32938
1FPPOOL	F6K193	1F6	1998/2/12	3/11/2011	4775	13.08	33598
1FPPOOL	F6K178	1F6	1998/2/12	3/11/2011	4775	13.08	36234

1FPPOOL	F6K173	1F6	1998/2/12	3/11/2011	4775	13.08	36364
1FPPOOL	F6K184	1F6	1998/2/12	3/11/2011	4775	13.08	32822
1FPPOOL	F6K199	1F6	1998/2/12	3/11/2011	4775	13.08	34440
1FPPOOL	F6K172	1F6	1998/2/12	3/11/2011	4775	13.08	36276
1FPPOOL	F6K164	1F6	1996/9/1	3/11/2011	5304	14.53	33082
1FPPOOL	F6K165	1F6	1998/2/12	3/11/2011	4775	13.08	32694
1FPPOOL	F6K194	1F6	1998/2/12	3/11/2011	4775	13.08	36111
1FPPOOL	F6K186	1F6	1998/2/12	3/11/2011	4775	13.08	32806
1FPPOOL	F6K155	1F6	1996/9/1	3/11/2011	5304	14.53	32888
1FPPOOL	F6K201	1F6	1998/2/12	3/11/2011	4775	13.08	35268
1FPPOOL	F6K174	1F6	1998/2/12	3/11/2011	4775	13.08	35249
1FPPOOL	F6K185	1F6	1998/2/12	3/11/2011	4775	13.08	32847
1FPPOOL	F6K157	1F6	1998/2/12	3/11/2011	4775	13.08	34156
1FPPOOL	F6K162	1F6	1998/2/12	3/11/2011	4775	13.08	36266
1FPPOOL	F6K160	1F6	1996/9/1	3/11/2011	5304	14.53	32496
1FPPOOL	F6K176	1F6	1998/2/12	3/11/2011	4775	13.08	34166
1FPPOOL	F6K196	1F6	1998/2/12	3/11/2011	4775	13.08	35998
1FPPOOL	F6K166	1F6	1998/2/12	3/11/2011	4775	13.08	32741
1FPPOOL	F6K156	1F6	1998/2/12	3/11/2011	4775	13.08	33930
1FPPOOL	F6K192	1F6	1998/2/12	3/11/2011	4775	13.08	33591
1FPPOOL	F6K161	1F6	1996/9/1	3/11/2011	5304	14.53	33226
1FPPOOL	F6K183	1F6	1998/2/12	3/11/2011	4775	13.08	32824
1FPPOOL	F6K203	1F6	1998/2/12	3/11/2011	4775	13.08	32871
1FPPOOL	F6K168	1F6	1998/2/12	3/11/2011	4775	13.08	34980
1FPPOOL	F6K151	1F6	1998/2/12	3/11/2011	4775	13.08	34271
1FPPOOL	F6K177	1F6	1998/2/12	3/11/2011	4775	13.08	34047
1FPPOOL	F6K197	1F6	1998/2/12	3/11/2011	4775	13.08	35982
1FPPOOL	F6K204	1F6	1998/2/12	3/11/2011	4775	13.08	32817
1FPPOOL	F6L108	1F6	1998/2/12	3/11/2011	4775	13.08	37001
1FPPOOL	F6L105	1F6	1998/2/12	3/11/2011	4775	13.08	36797
1FPPOOL	F6L115	1F6	1998/2/12	3/11/2011	4775	13.08	36123
1FPPOOL	F6L94	1F6	1998/2/12	3/11/2011	4775	13.08	36074
1FPPOOL	F6L120	1F6	1998/2/12	3/11/2011	4775	13.08	36529
1FPPOOL	F6L117	1F6	1998/2/12	3/11/2011	4775	13.08	36075
1FPPOOL	F6L97	1F6	1998/2/12	3/11/2011	4775	13.08	36476
1FPPOOL	F6L168	1F6	1998/2/12	3/11/2011	4775	13.08	36934
1FPPOOL	F6L153	1F6	1998/2/12	3/11/2011	4775	13.08	36848
1FPPOOL	F6L179	1F6	1998/2/12	3/11/2011	4775	13.08	36692
1FPPOOL	F6L126	1F6	1998/2/12	3/11/2011	4775	13.08	37074
1FPPOOL	F6L146	1F6	1998/2/12	3/11/2011	4775	13.08	37318
1FPPOOL	F6L147	1F6	1998/2/12	3/11/2011	4775	13.08	36965
1FPPOOL	F6L127	1F6	1998/2/12	3/11/2011	4775	13.08	37006
1FPPOOL	F6L165	1F6	1998/2/12	3/11/2011	4775	13.08	36933
1FPPOOL	F6L156	1F6	1998/2/12	3/11/2011	4775	13.08	36548
1FPPOOL	F6L176	1F6	1998/2/12	3/11/2011	4775	13.08	36553
1FPPOOL	F6L171	1F6	1998/2/12	3/11/2011	4775	13.08	36127
1FPPOOL	F2N49	1F2	1998/8/12	3/11/2011	4594	12.59	31978
1FPPOOL	F2N50	1F2	1998/8/12	3/11/2011	4594	12.59	32324
1FPPOOL	F2N51	1F2	1998/8/12	3/11/2011	4594	12.59	33497
1FPPOOL	F2N54	1F2	1998/8/12	3/11/2011	4594	12.59	33364
1FPPOOL	F2N55	1F2	1998/8/12	3/11/2011	4594	12.59	32357
1FPPOOL	F2N56	1F2	1998/8/12	3/11/2011	4594	12.59	34198
1FPPOOL	F2N57	1F2	1998/8/12	3/11/2011	4594	12.59	34153

1FPPOOL	F2N62	1F2	1998/8/12	3/11/2011	4594	12.59	32537
1FPPOOL	F2N63	1F2	1998/8/12	3/11/2011	4594	12.59	32653
1FPPOOL	F2N64	1F2	1998/8/12	3/11/2011	4594	12.59	32609
1FPPOOL	F2N65	1F2	1998/8/12	3/11/2011	4594	12.59	32658
1FPPOOL	F2NN24	1F2	1998/8/12	3/11/2011	4594	12.59	31611
1FPPOOL	F2NN25	1F2	1998/8/12	3/11/2011	4594	12.59	30637
1FPPOOL	F2NN26	1F2	1998/8/12	3/11/2011	4594	12.59	30494
1FPPOOL	F2NN27	1F2	1998/8/12	3/11/2011	4594	12.59	30515
1FPPOOL	F2NN28	1F2	1998/8/12	3/11/2011	4594	12.59	30612
1FPPOOL	F2NN29	1F2	1998/8/12	3/11/2011	4594	12.59	30534
1FPPOOL	F2NN30	1F2	1998/8/12	3/11/2011	4594	12.59	30576
1FPPOOL	F2NN31	1F2	1998/8/12	3/11/2011	4594	12.59	30522
1FPPOOL	F2NN32	1F2	1998/8/12	3/11/2011	4594	12.59	30587
1FPPOOL	F2NN33	1F2	1998/8/12	3/11/2011	4594	12.59	31651
1FPPOOL	F2MN15	1F2	1998/8/12	3/11/2011	4594	12.59	32706
1FPPOOL	F2MN16	1F2	1998/8/12	3/11/2011	4594	12.59	32623
1FPPOOL	F2MN17	1F2	1998/8/12	3/11/2011	4594	12.59	32797
1FPPOOL	F2MN18	1F2	1998/8/12	3/11/2011	4594	12.59	32680
1FPPOOL	F2MN21	1F2	1998/8/12	3/11/2011	4594	12.59	32529
1FPPOOL	F2MN22	1F2	1998/8/12	3/11/2011	4594	12.59	32573
1FPPOOL	F2MN31	1F2	1998/8/12	3/11/2011	4594	12.59	32466
1FPPOOL	F2MN32	1F2	1998/8/12	3/11/2011	4594	12.59	32605
1FPPOOL	F2N1	1F2	1998/8/12	3/11/2011	4594	12.59	34812
1FPPOOL	F2N2	1F2	1998/8/12	3/11/2011	4594	12.59	34771
1FPPOOL	F2N3	1F2	1998/8/12	3/11/2011	4594	12.59	34692
1FPPOOL	F2N5	1F2	1998/8/12	3/11/2011	4594	12.59	31624
1FPPOOL	F2N6	1F2	1998/8/12	3/11/2011	4594	12.59	31995
1FPPOOL	F2N7	1F2	1998/8/12	3/11/2011	4594	12.59	31924
1FPPOOL	F2N8	1F2	1998/8/12	3/11/2011	4594	12.59	31473
1FPPOOL	F2N12	1F2	1998/8/12	3/11/2011	4594	12.59	32272
1FPPOOL	F2N13	1F2	1998/8/12	3/11/2011	4594	12.59	32103
1FPPOOL	F2N16	1F2	1998/8/12	3/11/2011	4594	12.59	31518
1FPPOOL	F2N17	1F2	1998/8/12	3/11/2011	4594	12.59	32215
1FPPOOL	F2N18	1F2	1998/8/12	3/11/2011	4594	12.59	32168
1FPPOOL	F2N19	1F2	1998/8/12	3/11/2011	4594	12.59	31536
1FPPOOL	F2N20	1F2	1998/8/12	3/11/2011	4594	12.59	31873
1FPPOOL	F2N21	1F2	1998/8/12	3/11/2011	4594	12.59	32058
1FPPOOL	F2N22	1F2	1998/8/12	3/11/2011	4594	12.59	31945
1FPPOOL	F2N23	1F2	1998/8/12	3/11/2011	4594	12.59	32016
1FPPOOL	F2N24	1F2	1998/8/12	3/11/2011	4594	12.59	31503
1FPPOOL	F2N25	1F2	1998/8/12	3/11/2011	4594	12.59	32250
1FPPOOL	F2N26	1F2	1998/8/12	3/11/2011	4594	12.59	32196
1FPPOOL	F2N27	1F2	1998/8/12	3/11/2011	4594	12.59	31612
1FPPOOL	F2N30	1F2	1998/8/12	3/11/2011	4594	12.59	32327
1FPPOOL	F2N31	1F2	1998/8/12	3/11/2011	4594	12.59	32162
1FPPOOL	F2NN34	1F2	1998/8/12	3/11/2011	4594	12.59	31628
1FPPOOL	F2NN23	1F2	1998/8/12	3/11/2011	4594	12.59	31622
1FPPOOL	F2NN39	1F2	1998/8/12	3/11/2011	4594	12.59	31770
1FPPOOL	F2NN40	1F2	1998/8/12	3/11/2011	4594	12.59	31590
1FPPOOL	F2NN41	1F2	1998/8/12	3/11/2011	4594	12.59	30666
1FPPOOL	F2NN42	1F2	1998/8/12	3/11/2011	4594	12.59	30685
1FPPOOL	F2NN43	1F2	1998/8/12	3/11/2011	4594	12.59	30547
1FPPOOL	F2NN44	1F2	1998/8/12	3/11/2011	4594	12.59	30642

1FPPOOL	F2N70	1F2	1998/8/12	3/11/2011	4594	12.59	34232
1FPPOOL	F2N71	1F2	1998/8/12	3/11/2011	4594	12.59	34193
1FPPOOL	F2N72	1F2	1998/8/12	3/11/2011	4594	12.59	32294
1FPPOOL	F2N73	1F2	1998/8/12	3/11/2011	4594	12.59	33498
1FPPOOL	F2N76	1F2	1998/8/12	3/11/2011	4594	12.59	33554
1FPPOOL	F2N77	1F2	1998/8/12	3/11/2011	4594	12.59	32421
1FPPOOL	F2N78	1F2	1998/8/12	3/11/2011	4594	12.59	32038
1FPPOOL	F2N79	1F2	1998/8/12	3/11/2011	4594	12.59	34300
1FPPOOL	F2N80	1F2	1998/8/12	3/11/2011	4594	12.59	34255
1FPPOOL	F2N81	1F2	1998/8/12	3/11/2011	4594	12.59	32084
1FPPOOL	F2N82	1F2	1998/8/12	3/11/2011	4594	12.59	32475
1FPPOOL	F2N83	1F2	1998/8/12	3/11/2011	4594	12.59	32091
1FPPOOL	F2N84	1F2	1998/8/12	3/11/2011	4594	12.59	32032
1FPPOOL	F2N85	1F2	1998/8/12	3/11/2011	4594	12.59	32485
1FPPOOL	F2N86	1F2	1998/8/12	3/11/2011	4594	12.59	32957
1FPPOOL	F2N87	1F2	1998/8/12	3/11/2011	4594	12.59	32839
1FPPOOL	F2N90	1F2	1998/8/12	3/11/2011	4594	12.59	30861
1FPPOOL	F2N91	1F2	1998/8/12	3/11/2011	4594	12.59	30873
1FPPOOL	F2N96	1F2	1998/8/12	3/11/2011	4594	12.59	30861
1FPPOOL	F2N97	1F2	1998/8/12	3/11/2011	4594	12.59	30873
1FPPOOL	F2NN3	1F2	1998/8/12	3/11/2011	4594	12.59	32433
1FPPOOL	F2NN4	1F2	1998/8/12	3/11/2011	4594	12.59	32431
1FPPOOL	F2NN9	1F2	1998/8/12	3/11/2011	4594	12.59	32464
1FPPOOL	F2NN10	1F2	1998/8/12	3/11/2011	4594	12.59	32570
1FPPOOL	F2NN13	1F2	1998/8/12	3/11/2011	4594	12.59	30722
1FPPOOL	F2NN14	1F2	1998/8/12	3/11/2011	4594	12.59	30624
1FPPOOL	F2NN15	1F2	1998/8/12	3/11/2011	4594	12.59	30561
1FPPOOL	F2NN16	1F2	1998/8/12	3/11/2011	4594	12.59	30519
1FPPOOL	F2NN17	1F2	1998/8/12	3/11/2011	4594	12.59	31821
1FPPOOL	F2NN18	1F2	1998/8/12	3/11/2011	4594	12.59	31640
1FPPOOL	F2M135	1F2	1998/8/12	3/11/2011	4594	12.59	37054
1FPPOOL	F2M136	1F2	1998/8/12	3/11/2011	4594	12.59	36413
1FPPOOL	F2M137	1F2	1998/8/12	3/11/2011	4594	12.59	36224
1FPPOOL	F2M138	1F2	1998/8/12	3/11/2011	4594	12.59	36877
1FPPOOL	F2M141	1F2	1998/8/12	3/11/2011	4594	12.59	31471
1FPPOOL	F2M142	1F2	1998/8/12	3/11/2011	4594	12.59	33700
1FPPOOL	F2M143	1F2	1998/8/12	3/11/2011	4594	12.59	33563
1FPPOOL	F2M144	1F2	1998/8/12	3/11/2011	4594	12.59	31558
1FPPOOL	F2M147	1F2	1998/8/12	3/11/2011	4594	12.59	32778
1FPPOOL	F2M149	1F2	1998/8/12	3/11/2011	4594	12.59	31545
1FPPOOL	F2M150	1F2	1998/8/12	3/11/2011	4594	12.59	33684
1FPPOOL	F2M151	1F2	1998/8/12	3/11/2011	4594	12.59	33650
1FPPOOL	F2M152	1F2	1998/8/12	3/11/2011	4594	12.59	31580
1FPPOOL	F2M154	1F2	1998/8/12	3/11/2011	4594	12.59	32800
1FPPOOL	F2M131	1F2	1998/8/12	3/11/2011	4594	12.59	36982
1FPPOOL	F2M134	1F2	1998/8/12	3/11/2011	4594	12.59	36935
1FPPOOL	F2M155	1F2	1998/8/12	3/11/2011	4594	12.59	37121
1FPPOOL	F2M156	1F2	1998/8/12	3/11/2011	4594	12.59	36460
1FPPOOL	F2M157	1F2	1998/8/12	3/11/2011	4594	12.59	36243
1FPPOOL	F2M158	1F2	1998/8/12	3/11/2011	4594	12.59	36963
1FPPOOL	F2M159	1F2	1998/8/12	3/11/2011	4594	12.59	36974
1FPPOOL	F2M162	1F2	1998/8/12	3/11/2011	4594	12.59	36990
1FPPOOL	F2M163	1F2	1998/8/12	3/11/2011	4594	12.59	32806

1FPPOOL	F2MN1	1F2	1998/8/12	3/11/2011	4594	12.59	32480
1FPPOOL	F2MN2	1F2	1998/8/12	3/11/2011	4594	12.59	32562
1FPPOOL	F2MN5	1F2	1998/8/12	3/11/2011	4594	12.59	33982
1FPPOOL	F2MN6	1F2	1998/8/12	3/11/2011	4594	12.59	33911
1FPPOOL	F2MN11	1F2	1998/8/12	3/11/2011	4594	12.59	32475
1FPPOOL	F2MN12	1F2	1998/8/12	3/11/2011	4594	12.59	32498
1FPPOOL	F2N36	1F2	1998/8/12	3/11/2011	4594	12.59	32056
1FPPOOL	F2N37	1F2	1998/8/12	3/11/2011	4594	12.59	31953
1FPPOOL	F2N38	1F2	1998/8/12	3/11/2011	4594	12.59	31581
1FPPOOL	F2N40	1F2	1998/8/12	3/11/2011	4594	12.59	32852
1FPPOOL	F2N41	1F2	1998/8/12	3/11/2011	4594	12.59	32768
1FPPOOL	F2N42	1F2	1998/8/12	3/11/2011	4594	12.59	32511
1FPPOOL	F2N43	1F2	1998/8/12	3/11/2011	4594	12.59	32085
1FPPOOL	F2N44	1F2	1998/8/12	3/11/2011	4594	12.59	31963
1FPPOOL	F2M26	1F2	1998/8/12	3/11/2011	4594	12.59	33789
1FPPOOL	F2M29	1F2	1998/8/12	3/11/2011	4594	12.59	33851
1FPPOOL	F2M60	1F2	1998/8/12	3/11/2011	4594	12.59	33844
1FPPOOL	F2M88	1F2	1998/8/12	3/11/2011	4594	12.59	34740
1FPPOOL	F2M89	1F2	1998/8/12	3/11/2011	4594	12.59	34629
1FPPOOL	F2M90	1F2	1998/8/12	3/11/2011	4594	12.59	34715
1FPPOOL	F2M91	1F2	1998/8/12	3/11/2011	4594	12.59	34768
1FPPOOL	F2M92	1F2	1998/8/12	3/11/2011	4594	12.59	34640
1FPPOOL	F2M100	1F2	1998/8/12	3/11/2011	4594	12.59	32384
1FPPOOL	F2M101	1F2	1998/8/12	3/11/2011	4594	12.59	32323
1FPPOOL	F2M103	1F2	1998/8/12	3/11/2011	4594	12.59	33847
1FPPOOL	F2M104	1F2	1998/8/12	3/11/2011	4594	12.59	33852
1FPPOOL	F2M105	1F2	1998/8/12	3/11/2011	4594	12.59	33964
1FPPOOL	F2M106	1F2	1998/8/12	3/11/2011	4594	12.59	33586
1FPPOOL	F2M107	1F2	1998/8/12	3/11/2011	4594	12.59	33540
1FPPOOL	F2M113	1F2	1998/8/12	3/11/2011	4594	12.59	33931
1FPPOOL	F2M114	1F2	1998/8/12	3/11/2011	4594	12.59	33630
1FPPOOL	F2M115	1F2	1998/8/12	3/11/2011	4594	12.59	33600
1FPPOOL	F2M117	1F2	1998/8/12	3/11/2011	4594	12.59	33873
1FPPOOL	F2M118	1F2	1998/8/12	3/11/2011	4594	12.59	33922
1FPPOOL	F2M120	1F2	1998/8/12	3/11/2011	4594	12.59	32316
1FPPOOL	F2M121	1F2	1998/8/12	3/11/2011	4594	12.59	32371
1FPPOOL	F2M129	1F2	1998/8/12	3/11/2011	4594	12.59	32796
1FPPOOL	F2M130	1F2	1998/8/12	3/11/2011	4594	12.59	33934
1FPPOOL	F2N45	1F2	1998/8/12	3/11/2011	4594	12.59	32383
1FPPOOL	F2N46	1F2	1998/8/12	3/11/2011	4594	12.59	32077
1FPPOOL	F2N47	1F2	1998/8/12	3/11/2011	4594	12.59	34277
1FPPOOL	F2N48	1F2	1998/8/12	3/11/2011	4594	12.59	34115
1FPPOOL	F2N35	1F2	1998/8/12	3/11/2011	4594	12.59	31649
1FPPOOL	F5LN96	1F5	1998/9/18	3/11/2011	4557	12.48	34215
1FPPOOL	F5LN107	1F5	1998/9/18	3/11/2011	4557	12.48	33525
1FPPOOL	F5LN108	1F5	1998/9/18	3/11/2011	4557	12.48	33820
1FPPOOL	F5LN109	1F5	1998/9/18	3/11/2011	4557	12.48	33529
1FPPOOL	F5LN110	1F5	1998/9/18	3/11/2011	4557	12.48	33821
1FPPOOL	F5LN121	1F5	1998/9/18	3/11/2011	4557	12.48	33723
1FPPOOL	F5LN122	1F5	1998/9/18	3/11/2011	4557	12.48	33599
1FPPOOL	F5LN123	1F5	1998/9/18	3/11/2011	4557	12.48	33012
1FPPOOL	F5LN124	1F5	1998/9/18	3/11/2011	4557	12.48	33003
1FPPOOL	F5LN127	1F5	1998/9/18	3/11/2011	4557	12.48	33332

1FPPOOL	F5LN128	1F5	1998/9/18	3/11/2011	4557	12.48	33367
1FPPOOL	F5LN129	1F5	1998/9/18	3/11/2011	4557	12.48	33300
1FPPOOL	F5LN130	1F5	1998/9/18	3/11/2011	4557	12.48	33288
1FPPOOL	F5LN131	1F5	1998/9/18	3/11/2011	4557	12.48	36990
1FPPOOL	F5LN132	1F5	1998/9/18	3/11/2011	4557	12.48	37001
1FPPOOL	F5LN133	1F5	1998/9/18	3/11/2011	4557	12.48	37086
1FPPOOL	F5LN134	1F5	1998/9/18	3/11/2011	4557	12.48	36994
1FPPOOL	F5LN143	1F5	1998/9/18	3/11/2011	4557	12.48	38568
1FPPOOL	F5LN144	1F5	1998/9/18	3/11/2011	4557	12.48	38546
1FPPOOL	F5LN145	1F5	1998/9/18	3/11/2011	4557	12.48	38595
1FPPOOL	F5LN146	1F5	1998/9/18	3/11/2011	4557	12.48	38552
1FPPOOL	F5LN147	1F5	1998/9/18	3/11/2011	4557	12.48	38539
1FPPOOL	F5LN148	1F5	1998/9/18	3/11/2011	4557	12.48	38526
1FPPOOL	F5LN149	1F5	1998/9/18	3/11/2011	4557	12.48	38533
1FPPOOL	F5LN150	1F5	1998/9/18	3/11/2011	4557	12.48	38486
1FPPOOL	F5M1	1F5	1998/9/18	3/11/2011	4557	12.48	33884
1FPPOOL	F5M2	1F5	1998/9/18	3/11/2011	4557	12.48	33970
1FPPOOL	F5M3	1F5	1998/9/18	3/11/2011	4557	12.48	33942
1FPPOOL	F5M4	1F5	1998/9/18	3/11/2011	4557	12.48	34025
1FPPOOL	F5M9	1F5	1998/9/18	3/11/2011	4557	12.48	37504
1FPPOOL	F5M10	1F5	1998/9/18	3/11/2011	4557	12.48	37502
1FPPOOL	F5M11	1F5	1998/9/18	3/11/2011	4557	12.48	37397
1FPPOOL	F5M12	1F5	1998/9/18	3/11/2011	4557	12.48	37430
1FPPOOL	F5M25	1F5	1998/9/18	3/11/2011	4557	12.48	31311
1FPPOOL	F5M26	1F5	1998/9/18	3/11/2011	4557	12.48	31327
1FPPOOL	F5M27	1F5	1998/9/18	3/11/2011	4557	12.48	31301
1FPPOOL	F5M28	1F5	1998/9/18	3/11/2011	4557	12.48	31321
1FPPOOL	F5MN108	1F5	1998/9/18	3/11/2011	4557	12.48	33215
1FPPOOL	F5MN12	1F5	1998/9/18	3/11/2011	4557	12.48	36234
1FPPOOL	F5MN13	1F5	1998/9/18	3/11/2011	4557	12.48	33772
1FPPOOL	F5MN14	1F5	1998/9/18	3/11/2011	4557	12.48	33785
1FPPOOL	F5MN15	1F5	1998/9/18	3/11/2011	4557	12.48	33400
1FPPOOL	F5MN16	1F5	1998/9/18	3/11/2011	4557	12.48	32519
1FPPOOL	F5MN17	1F5	1998/9/18	3/11/2011	4557	12.48	32492
1FPPOOL	F5MN18	1F5	1998/9/18	3/11/2011	4557	12.48	32494
1FPPOOL	F5MN19	1F5	1998/9/18	3/11/2011	4557	12.48	32512
1FPPOOL	F5MN20	1F5	1998/9/18	3/11/2011	4557	12.48	32522
1FPPOOL	F5MN25	1F5	1998/9/18	3/11/2011	4557	12.48	32538
1FPPOOL	F5MN26	1F5	1998/9/18	3/11/2011	4557	12.48	33578
1FPPOOL	F5MN27	1F5	1998/9/18	3/11/2011	4557	12.48	32563
1FPPOOL	F5MN28	1F5	1998/9/18	3/11/2011	4557	12.48	33450
1FPPOOL	F5MN29	1F5	1998/9/18	3/11/2011	4557	12.48	38105
1FPPOOL	F5MN30	1F5	1998/9/18	3/11/2011	4557	12.48	31985
1FPPOOL	F5MN109	1F5	1998/9/18	3/11/2011	4557	12.48	33911
1FPPOOL	F5MN110	1F5	1998/9/18	3/11/2011	4557	12.48	33880
1FPPOOL	F5MN111	1F5	1998/9/18	3/11/2011	4557	12.48	33887
1FPPOOL	F5MN112	1F5	1998/9/18	3/11/2011	4557	12.48	33874
1FPPOOL	F5MN113	1F5	1998/9/18	3/11/2011	4557	12.48	33809
1FPPOOL	F5MN114	1F5	1998/9/18	3/11/2011	4557	12.48	33828
1FPPOOL	F5MN115	1F5	1998/9/18	3/11/2011	4557	12.48	33800
1FPPOOL	F5MN116	1F5	1998/9/18	3/11/2011	4557	12.48	33814
1FPPOOL	F5MN31	1F5	1998/9/18	3/11/2011	4557	12.48	37931
1FPPOOL	F5MN32	1F5	1998/9/18	3/11/2011	4557	12.48	31987

1FPPOOL	F5MN45	1F5	1998/9/18	3/11/2011	4557	12.48	38690
1FPPOOL	F5MN46	1F5	1998/9/18	3/11/2011	4557	12.48	38729
1FPPOOL	F5MN47	1F5	1998/9/18	3/11/2011	4557	12.48	38689
1FPPOOL	F5MN48	1F5	1998/9/18	3/11/2011	4557	12.48	38758
1FPPOOL	F5MN49	1F5	1998/9/18	3/11/2011	4557	12.48	32398
1FPPOOL	F5MN50	1F5	1998/9/18	3/11/2011	4557	12.48	31434
1FPPOOL	F5MN51	1F5	1998/9/18	3/11/2011	4557	12.48	32495
1FPPOOL	F5MN52	1F5	1998/9/18	3/11/2011	4557	12.48	34582
1FPPOOL	F5MN65	1F5	1998/9/18	3/11/2011	4557	12.48	32969
1FPPOOL	F5MN66	1F5	1998/9/18	3/11/2011	4557	12.48	31453
1FPPOOL	F5MN67	1F5	1998/9/18	3/11/2011	4557	12.48	32841
1FPPOOL	F5MN68	1F5	1998/9/18	3/11/2011	4557	12.48	32658
1FPPOOL	F5MN69	1F5	1998/9/18	3/11/2011	4557	12.48	38673
1FPPOOL	F5MN70	1F5	1998/9/18	3/11/2011	4557	12.48	38744
1FPPOOL	F5MN71	1F5	1998/9/18	3/11/2011	4557	12.48	38736
1FPPOOL	F5MN72	1F5	1998/9/18	3/11/2011	4557	12.48	38746
1FPPOOL	F5MN73	1F5	1998/9/18	3/11/2011	4557	12.48	37561
1FPPOOL	F5MN74	1F5	1998/9/18	3/11/2011	4557	12.48	37555
1FPPOOL	F5MN75	1F5	1998/9/18	3/11/2011	4557	12.48	37634
1FPPOOL	F5MN76	1F5	1998/9/18	3/11/2011	4557	12.48	37518
1FPPOOL	F5MN77	1F5	1998/9/18	3/11/2011	4557	12.48	38868
1FPPOOL	F5MN78	1F5	1998/9/18	3/11/2011	4557	12.48	38855
1FPPOOL	F5MN79	1F5	1998/9/18	3/11/2011	4557	12.48	38874
1FPPOOL	F5MN80	1F5	1998/9/18	3/11/2011	4557	12.48	38905
1FPPOOL	F5MN81	1F5	1998/9/18	3/11/2011	4557	12.48	33855
1FPPOOL	F5MN82	1F5	1998/9/18	3/11/2011	4557	12.48	33836
1FPPOOL	F5MN83	1F5	1998/9/18	3/11/2011	4557	12.48	33163
1FPPOOL	F5MN93	1F5	1998/9/18	3/11/2011	4557	12.48	33201
1FPPOOL	F5MN94	1F5	1998/9/18	3/11/2011	4557	12.48	33218
1FPPOOL	F5MN95	1F5	1998/9/18	3/11/2011	4557	12.48	33208
1FPPOOL	F5MN96	1F5	1998/9/18	3/11/2011	4557	12.48	33215
1FPPOOL	F5MN97	1F5	1998/9/18	3/11/2011	4557	12.48	33242
1FPPOOL	F5MN98	1F5	1998/9/18	3/11/2011	4557	12.48	33250
1FPPOOL	F5MN99	1F5	1998/9/18	3/11/2011	4557	12.48	33206
1FPPOOL	F5MN100	1F5	1998/9/18	3/11/2011	4557	12.48	33233
1FPPOOL	F5MN101	1F5	1998/9/18	3/11/2011	4557	12.48	30290
1FPPOOL	F5MN102	1F5	1998/9/18	3/11/2011	4557	12.48	30238
1FPPOOL	F5MN103	1F5	1998/9/18	3/11/2011	4557	12.48	30286
1FPPOOL	F5MN104	1F5	1998/9/18	3/11/2011	4557	12.48	30263
1FPPOOL	F5MN105	1F5	1998/9/18	3/11/2011	4557	12.48	33202
1FPPOOL	F5MN106	1F5	1998/9/18	3/11/2011	4557	12.48	33198
1FPPOOL	F5MN107	1F5	1998/9/18	3/11/2011	4557	12.48	33198
1FPPOOL	F5MN125	1F5	1998/9/18	3/11/2011	4557	12.48	30425
1FPPOOL	F5MN126	1F5	1998/9/18	3/11/2011	4557	12.48	30393
1FPPOOL	F5MN127	1F5	1998/9/18	3/11/2011	4557	12.48	30405
1FPPOOL	F5MN128	1F5	1998/9/18	3/11/2011	4557	12.48	30322
1FPPOOL	F5MN129	1F5	1998/9/18	3/11/2011	4557	12.48	33578
1FPPOOL	F5MN130	1F5	1998/9/18	3/11/2011	4557	12.48	33600
1FPPOOL	F5MN131	1F5	1998/9/18	3/11/2011	4557	12.48	33617
1FPPOOL	F5MN132	1F5	1998/9/18	3/11/2011	4557	12.48	33647
1FPPOOL	F5K35	1F5	1998/9/18	3/11/2011	4557	12.48	33875
1FPPOOL	F5K36	1F5	1998/9/18	3/11/2011	4557	12.48	33887
1FPPOOL	F5K37	1F5	1998/9/18	3/11/2011	4557	12.48	31687

1FPPOOL	F5K38	1F5	1998/9/18	3/11/2011	4557	12.48	37862
1FPPOOL	F5K39	1F5	1998/9/18	3/11/2011	4557	12.48	31748
1FPPOOL	F5K40	1F5	1998/9/18	3/11/2011	4557	12.48	37493
1FPPOOL	F5L19	1F5	1998/9/18	3/11/2011	4557	12.48	36647
1FPPOOL	F5L20	1F5	1998/9/18	3/11/2011	4557	12.48	36656
1FPPOOL	F5L21	1F5	1998/9/18	3/11/2011	4557	12.48	36651
1FPPOOL	F5L22	1F5	1998/9/18	3/11/2011	4557	12.48	35166
1FPPOOL	F5L23	1F5	1998/9/18	3/11/2011	4557	12.48	32114
1FPPOOL	F5L24	1F5	1998/9/18	3/11/2011	4557	12.48	32826
1FPPOOL	F5L25	1F5	1998/9/18	3/11/2011	4557	12.48	31805
1FPPOOL	F5L26	1F5	1998/9/18	3/11/2011	4557	12.48	33265
1FPPOOL	F5L27	1F5	1998/9/18	3/11/2011	4557	12.48	32887
1FPPOOL	F5L28	1F5	1998/9/18	3/11/2011	4557	12.48	32822
1FPPOOL	F5L29	1F5	1998/9/18	3/11/2011	4557	12.48	32904
1FPPOOL	F5L30	1F5	1998/9/18	3/11/2011	4557	12.48	32483
1FPPOOL	F5LN23	1F5	1998/9/18	3/11/2011	4557	12.48	32684
1FPPOOL	F5LN24	1F5	1998/9/18	3/11/2011	4557	12.48	32706
1FPPOOL	F5LN29	1F5	1998/9/18	3/11/2011	4557	12.48	32479
1FPPOOL	F5LN30	1F5	1998/9/18	3/11/2011	4557	12.48	32707
1FPPOOL	F5LN47	1F5	1998/9/18	3/11/2011	4557	12.48	33795
1FPPOOL	F5LN95	1F5	1998/9/18	3/11/2011	4557	12.48	34232
1FPPOOL	F5MN5	1F5	1998/9/18	3/11/2011	4557	12.48	37597
1FPPOOL	F5MN6	1F5	1998/9/18	3/11/2011	4557	12.48	37603
1FPPOOL	F5MN7	1F5	1998/9/18	3/11/2011	4557	12.48	37646
1FPPOOL	F5MN8	1F5	1998/9/18	3/11/2011	4557	12.48	37620
1FPPOOL	F5MN9	1F5	1998/9/18	3/11/2011	4557	12.48	34732
1FPPOOL	F5MN10	1F5	1998/9/18	3/11/2011	4557	12.48	34727
1FPPOOL	F5MN11	1F5	1998/9/18	3/11/2011	4557	12.48	34747
1FPPOOL	F4M190	1F4	1999/3/19	3/11/2011	4375	11.99	31736
1FPPOOL	F4M191	1F4	1999/3/19	3/11/2011	4375	11.99	30227
1FPPOOL	F4M194	1F4	1999/3/19	3/11/2011	4375	11.99	30960
1FPPOOL	F4M196	1F4	1999/3/19	3/11/2011	4375	11.99	32480
1FPPOOL	F4M197	1F4	1999/3/19	3/11/2011	4375	11.99	30130
1FPPOOL	F4M198	1F4	1999/3/19	3/11/2011	4375	11.99	31508
1FPPOOL	F4M199	1F4	1999/3/19	3/11/2011	4375	11.99	31612
1FPPOOL	F4M200	1F4	1999/3/19	3/11/2011	4375	11.99	31701
1FPPOOL	F4M189	1F4	1999/3/19	3/11/2011	4375	11.99	31653
1FPPOOL	F4M170	1F4	1999/3/19	3/11/2011	4375	11.99	31745
1FPPOOL	F4M171	1F4	1999/3/19	3/11/2011	4375	11.99	30277
1FPPOOL	F4M174	1F4	1999/3/19	3/11/2011	4375	11.99	30991
1FPPOOL	F4M176	1F4	1999/3/19	3/11/2011	4375	11.99	32514
1FPPOOL	F4M177	1F4	1999/3/19	3/11/2011	4375	11.99	30176
1FPPOOL	F4M178	1F4	1999/3/19	3/11/2011	4375	11.99	31542
1FPPOOL	F4M179	1F4	1999/3/19	3/11/2011	4375	11.99	31656
1FPPOOL	F4M180	1F4	1999/3/19	3/11/2011	4375	11.99	31776
1FPPOOL	F4M184	1F4	1999/3/19	3/11/2011	4375	11.99	31010
1FPPOOL	F4M169	1F4	1999/3/19	3/11/2011	4375	11.99	31534
1FPPOOL	F4M71	1F4	1999/3/19	3/11/2011	4375	11.99	38558
1FPPOOL	F4M15	1F4	1999/3/19	3/11/2011	4375	11.99	34961
1FPPOOL	F4M147	1F4	1999/3/19	3/11/2011	4375	11.99	38672
1FPPOOL	F4M150	1F4	1999/3/19	3/11/2011	4375	11.99	37623
1FPPOOL	F4M151	1F4	1999/3/19	3/11/2011	4375	11.99	30366
1FPPOOL	F4M154	1F4	1999/3/19	3/11/2011	4375	11.99	38294

1FPPOOL	F4M155	1F4	1999/3/19	3/11/2011	4375	11.99	33053
1FPPOOL	F4M157	1F4	1999/3/19	3/11/2011	4375	11.99	35744
1FPPOOL	F4M160	1F4	1999/3/19	3/11/2011	4375	11.99	30775
1FPPOOL	F4M161	1F4	1999/3/19	3/11/2011	4375	11.99	32499
1FPPOOL	F4M162	1F4	1999/3/19	3/11/2011	4375	11.99	31662
1FPPOOL	F4L35	1F4	1999/3/19	3/11/2011	4375	11.99	33701
1FPPOOL	F4L44	1F4	1999/3/19	3/11/2011	4375	11.99	33693
1FPPOOL	F4LN96	1F4	1999/3/19	3/11/2011	4375	11.99	36754
1FPPOOL	F4LN97	1F4	1999/3/19	3/11/2011	4375	11.99	31555
1FPPOOL	F4LN102	1F4	1999/3/19	3/11/2011	4375	11.99	36700
1FPPOOL	F4LN103	1F4	1999/3/19	3/11/2011	4375	11.99	31562
1FPPOOL	F4LN108	1F4	1999/3/19	3/11/2011	4375	11.99	36760
1FPPOOL	F4LN114	1F4	1999/3/19	3/11/2011	4375	11.99	36738
1FPPOOL	F4M1	1F4	1999/3/19	3/11/2011	4375	11.99	36035
1FPPOOL	F4M3	1F4	1999/3/19	3/11/2011	4375	11.99	35198
1FPPOOL	F4M4	1F4	1999/3/19	3/11/2011	4375	11.99	38320
1FPPOOL	F4M10	1F4	1999/3/19	3/11/2011	4375	11.99	34353
1FPPOOL	F4M14	1F4	1999/3/19	3/11/2011	4375	11.99	31473
1FPPOOL	F4M17	1F4	1999/3/19	3/11/2011	4375	11.99	38259
1FPPOOL	F4M19	1F4	1999/3/19	3/11/2011	4375	11.99	38458
1FPPOOL	F4M25	1F4	1999/3/19	3/11/2011	4375	11.99	35094
1FPPOOL	F4M26	1F4	1999/3/19	3/11/2011	4375	11.99	35093
1FPPOOL	F4M29	1F4	1999/3/19	3/11/2011	4375	11.99	35254
1FPPOOL	F4M30	1F4	1999/3/19	3/11/2011	4375	11.99	38322
1FPPOOL	F4M36	1F4	1999/3/19	3/11/2011	4375	11.99	34446
1FPPOOL	F4M40	1F4	1999/3/19	3/11/2011	4375	11.99	31520
1FPPOOL	F4M41	1F4	1999/3/19	3/11/2011	4375	11.99	34993
1FPPOOL	F4M43	1F4	1999/3/19	3/11/2011	4375	11.99	38259
1FPPOOL	F4M45	1F4	1999/3/19	3/11/2011	4375	11.99	38507
1FPPOOL	F4M51	1F4	1999/3/19	3/11/2011	4375	11.99	35144
1FPPOOL	F4M52	1F4	1999/3/19	3/11/2011	4375	11.99	35146
1FPPOOL	F4M53	1F4	1999/3/19	3/11/2011	4375	11.99	36102
1FPPOOL	F4M55	1F4	1999/3/19	3/11/2011	4375	11.99	35249
1FPPOOL	F4M56	1F4	1999/3/19	3/11/2011	4375	11.99	38394
1FPPOOL	F4M62	1F4	1999/3/19	3/11/2011	4375	11.99	34425
1FPPOOL	F4M67	1F4	1999/3/19	3/11/2011	4375	11.99	34955
1FPPOOL	F4M69	1F4	1999/3/19	3/11/2011	4375	11.99	38252
1FPPOOL	F4M77	1F4	1999/3/19	3/11/2011	4375	11.99	35156
1FPPOOL	F4M78	1F4	1999/3/19	3/11/2011	4375	11.99	35182
1FPPOOL	F4M79	1F4	1999/3/19	3/11/2011	4375	11.99	36147
1FPPOOL	F4M27	1F4	1999/3/19	3/11/2011	4375	11.99	36041
1FPPOOL	F4M103	1F4	1999/3/19	3/11/2011	4375	11.99	35123
1FPPOOL	F4M81	1F4	1999/3/19	3/11/2011	4375	11.99	35300
1FPPOOL	F4M104	1F4	1999/3/19	3/11/2011	4375	11.99	35177
1FPPOOL	F4M105	1F4	1999/3/19	3/11/2011	4375	11.99	38761
1FPPOOL	F4M97	1F4	1999/3/19	3/11/2011	4375	11.99	38544
1FPPOOL	F4M166	1F4	1999/3/19	3/11/2011	4375	11.99	31006
1FPPOOL	F4M168	1F4	1999/3/19	3/11/2011	4375	11.99	30172
1FPPOOL	F4M146	1F4	1999/3/19	3/11/2011	4375	11.99	30746
1FPPOOL	F4M122	1F4	1999/3/19	3/11/2011	4375	11.99	37662
1FPPOOL	F4M123	1F4	1999/3/19	3/11/2011	4375	11.99	30334
1FPPOOL	F4M125	1F4	1999/3/19	3/11/2011	4375	11.99	29125
1FPPOOL	F4M126	1F4	1999/3/19	3/11/2011	4375	11.99	38238

1FPPOOL	F4M127	1F4	1999/3/19	3/11/2011	4375	11.99	33017
1FPPOOL	F4M129	1F4	1999/3/19	3/11/2011	4375	11.99	35680
1FPPOOL	F4M132	1F4	1999/3/19	3/11/2011	4375	11.99	30757
1FPPOOL	F4M133	1F4	1999/3/19	3/11/2011	4375	11.99	38713
1FPPOOL	F4M136	1F4	1999/3/19	3/11/2011	4375	11.99	37678
1FPPOOL	F4M137	1F4	1999/3/19	3/11/2011	4375	11.99	30349
1FPPOOL	F4M140	1F4	1999/3/19	3/11/2011	4375	11.99	38228
1FPPOOL	F4M141	1F4	1999/3/19	3/11/2011	4375	11.99	33067
1FPPOOL	F4M143	1F4	1999/3/19	3/11/2011	4375	11.99	35736
1FPPOOL	F4K65	1F4	1999/3/19	3/11/2011	4375	11.99	32079
1FPPOOL	F4K66	1F4	1999/3/19	3/11/2011	4375	11.99	32087
1FPPOOL	F4K144	1F4	1999/3/19	3/11/2011	4375	11.99	33930
1FPPOOL	F4K154	1F4	1999/3/19	3/11/2011	4375	11.99	33958
1FPPOOL	F4K163	1F4	1999/3/19	3/11/2011	4375	11.99	33929
1FPPOOL	F4L1	1F4	1999/3/19	3/11/2011	4375	11.99	32626
1FPPOOL	F4L2	1F4	1999/3/19	3/11/2011	4375	11.99	32290
1FPPOOL	F4L3	1F4	1999/3/19	3/11/2011	4375	11.99	32986
1FPPOOL	F4L4	1F4	1999/3/19	3/11/2011	4375	11.99	32090
1FPPOOL	F4L5	1F4	1999/3/19	3/11/2011	4375	11.99	32619
1FPPOOL	F4L6	1F4	1999/3/19	3/11/2011	4375	11.99	32293
1FPPOOL	F4L7	1F4	1999/3/19	3/11/2011	4375	11.99	32986
1FPPOOL	F4L8	1F4	1999/3/19	3/11/2011	4375	11.99	32120
1FPPOOL	F4L9	1F4	1999/3/19	3/11/2011	4375	11.99	32616
1FPPOOL	F4L11	1F4	1999/3/19	3/11/2011	4375	11.99	32984
1FPPOOL	F4L12	1F4	1999/3/19	3/11/2011	4375	11.99	32615
1FPPOOL	F4L14	1F4	1999/3/19	3/11/2011	4375	11.99	32974
1FPPOOL	F4L16	1F4	1999/3/19	3/11/2011	4375	11.99	33591
1FPPOOL	F4M82	1F4	1999/3/19	3/11/2011	4375	11.99	38407
1FPPOOL	F4M88	1F4	1999/3/19	3/11/2011	4375	11.99	34395
1FPPOOL	F4M92	1F4	1999/3/19	3/11/2011	4375	11.99	31555
1FPPOOL	F4M93	1F4	1999/3/19	3/11/2011	4375	11.99	34978
1FPPOOL	F4M95	1F4	1999/3/19	3/11/2011	4375	11.99	38326
1FPPOOL	F4M108	1F4	1999/3/19	3/11/2011	4375	11.99	37669
1FPPOOL	F4M186	1F4	1999/3/19	3/11/2011	4375	11.99	32499
1FPPOOL	F4M187	1F4	1999/3/19	3/11/2011	4375	11.99	30187
1FPPOOL	F4M188	1F4	1999/3/19	3/11/2011	4375	11.99	31538
1FPPOOL	F4M109	1F4	1999/3/19	3/11/2011	4375	11.99	30383
1FPPOOL	F4M111	1F4	1999/3/19	3/11/2011	4375	11.99	29187
1FPPOOL	F4M113	1F4	1999/3/19	3/11/2011	4375	11.99	33083
1FPPOOL	F4M115	1F4	1999/3/19	3/11/2011	4375	11.99	35743
1FPPOOL	F4M118	1F4	1999/3/19	3/11/2011	4375	11.99	30815
1FPPOOL	F4M119	1F4	1999/3/19	3/11/2011	4375	11.99	38762
1FPPOOL	F4L13	1F4	1999/3/19	3/11/2011	4375	11.99	32307
1FPPOOL	F4M112	1F4	1999/3/19	3/11/2011	4375	11.99	38327
1FPPOOL	F6L157	1F6	1999/7/25	3/11/2011	4247	11.64	39794
1FPPOOL	F6L16	1F6	1999/7/25	3/11/2011	4247	11.64	37307
1FPPOOL	F6L161	1F6	1999/7/25	3/11/2011	4247	11.64	39150
1FPPOOL	F6L162	1F6	1999/7/25	3/11/2011	4247	11.64	39716
1FPPOOL	F6L163	1F6	1999/7/25	3/11/2011	4247	11.64	37780
1FPPOOL	F6L17	1F6	1999/7/25	3/11/2011	4247	11.64	37433
1FPPOOL	F6L172	1F6	1999/7/25	3/11/2011	4247	11.64	37862
1FPPOOL	F6L177	1F6	1999/7/25	3/11/2011	4247	11.64	39781
1FPPOOL	F6L178	1F6	1999/7/25	3/11/2011	4247	11.64	39944

1FPPOOL	F6L18	1F6	1999/7/25	3/11/2011	4247	11.64	37385
1FPPOOL	F6L181	1F6	1999/7/25	3/11/2011	4247	11.64	41132
1FPPOOL	F6L182	1F6	1999/7/25	3/11/2011	4247	11.64	41690
1FPPOOL	F6L183	1F6	1999/7/25	3/11/2011	4247	11.64	42059
1FPPOOL	F6L184	1F6	1999/7/25	3/11/2011	4247	11.64	41181
1FPPOOL	F6L19	1F6	1999/7/25	3/11/2011	4247	11.64	41861
1FPPOOL	F6L2	1F6	1999/7/25	3/11/2011	4247	11.64	41538
1FPPOOL	F6L20	1F6	1999/7/25	3/11/2011	4247	11.64	41692
1FPPOOL	F6L29	1F6	1999/7/25	3/11/2011	4247	11.64	42196
1FPPOOL	F6L3	1F6	1999/7/25	3/11/2011	4247	11.64	39192
1FPPOOL	F6L30	1F6	1999/7/25	3/11/2011	4247	11.64	41887
1FPPOOL	F6L32	1F6	1999/7/25	3/11/2011	4247	11.64	37214
1FPPOOL	F6L33	1F6	1999/7/25	3/11/2011	4247	11.64	37135
1FPPOOL	F6L34	1F6	1999/7/25	3/11/2011	4247	11.64	37364
1FPPOOL	F6L35	1F6	1999/7/25	3/11/2011	4247	11.64	41397
1FPPOOL	F6L36	1F6	1999/7/25	3/11/2011	4247	11.64	41111
1FPPOOL	F6L38	1F6	1999/7/25	3/11/2011	4247	11.64	39007
1FPPOOL	F6L43	1F6	1999/7/25	3/11/2011	4247	11.64	39159
1FPPOOL	F6L44	1F6	1999/7/25	3/11/2011	4247	11.64	39063
1FPPOOL	F1M1	1F1	1999/7/16	3/11/2011	4256	11.66	35129
1FPPOOL	F1M2	1F1	1999/7/16	3/11/2011	4256	11.66	35209
1FPPOOL	F1M29	1F1	1999/7/16	3/11/2011	4256	11.66	34752
1FPPOOL	F1M3	1F1	1999/7/16	3/11/2011	4256	11.66	35155
1FPPOOL	F1M30	1F1	1999/7/16	3/11/2011	4256	11.66	34817
1FPPOOL	F1M31	1F1	1999/7/16	3/11/2011	4256	11.66	34736
1FPPOOL	F1M32	1F1	1999/7/16	3/11/2011	4256	11.66	34761
1FPPOOL	F1M4	1F1	1999/7/16	3/11/2011	4256	11.66	35095
1FPPOOL	F1M45	1F1	1999/7/16	3/11/2011	4256	11.66	35412
1FPPOOL	F1M48	1F1	1999/7/16	3/11/2011	4256	11.66	35469
1FPPOOL	F1M53	1F1	1999/7/16	3/11/2011	4256	11.66	35465
1FPPOOL	F1M56	1F1	1999/7/16	3/11/2011	4256	11.66	35475
1FPPOOL	F1M61	1F1	1999/7/16	3/11/2011	4256	11.66	34778
1FPPOOL	F1M62	1F1	1999/7/16	3/11/2011	4256	11.66	34822
1FPPOOL	F1M63	1F1	1999/7/16	3/11/2011	4256	11.66	34812
1FPPOOL	F1M64	1F1	1999/7/16	3/11/2011	4256	11.66	34843
1FPPOOL	F1P52	1F1	1999/7/16	3/11/2011	4256	11.66	33544
1FPPOOL	F1P53	1F1	1999/7/16	3/11/2011	4256	11.66	33546
1FPPOOL	F1P54	1F1	1999/7/16	3/11/2011	4256	11.66	33558
1FPPOOL	F1P55	1F1	1999/7/16	3/11/2011	4256	11.66	33605
1FPPOOL	F1P56	1F1	1999/7/16	3/11/2011	4256	11.66	33555
1FPPOOL	F1P57	1F1	1999/7/16	3/11/2011	4256	11.66	33595
1FPPOOL	F1P58	1F1	1999/7/16	3/11/2011	4256	11.66	33574
1FPPOOL	F1P59	1F1	1999/7/16	3/11/2011	4256	11.66	33672
1FPPOOL	F1P60	1F1	1999/7/16	3/11/2011	4256	11.66	33597
1FPPOOL	F6L6	1F6	1999/7/25	3/11/2011	4247	11.64	39168
1FPPOOL	F6L7	1F6	1999/7/25	3/11/2011	4247	11.64	39365
1FPPOOL	F6L8	1F6	1999/7/25	3/11/2011	4247	11.64	39056
1FPPOOL	F6L89	1F6	1999/7/25	3/11/2011	4247	11.64	41111
1FPPOOL	F6L90	1F6	1999/7/25	3/11/2011	4247	11.64	41946
1FPPOOL	F6L91	1F6	1999/7/25	3/11/2011	4247	11.64	42175
1FPPOOL	F6L92	1F6	1999/7/25	3/11/2011	4247	11.64	41402
1FPPOOL	F6L95	1F6	1999/7/25	3/11/2011	4247	11.64	39662
1FPPOOL	F6L96	1F6	1999/7/25	3/11/2011	4247	11.64	39810

1FPPOOL	F6M108	1F6	1999/7/25	3/11/2011	4247	11.64	36940
1FPPOOL	F6M58	1F6	1999/7/25	3/11/2011	4247	11.64	37098
1FPPOOL	F6M71	1F6	1999/7/25	3/11/2011	4247	11.64	37637
1FPPOOL	F6M78	1F6	1999/7/25	3/11/2011	4247	11.64	37343
1FPPOOL	F6M88	1F6	1999/7/25	3/11/2011	4247	11.64	37461
1FPPOOL	F6M9	1F6	1999/7/25	3/11/2011	4247	11.64	37247
1FPPOOL	F6M93	1F6	1999/7/25	3/11/2011	4247	11.64	37252
1FPPOOL	F6M99	1F6	1999/7/25	3/11/2011	4247	11.64	37074
1FPPOOL	F6M116	1F6	1999/7/25	3/11/2011	4247	11.64	37793
1FPPOOL	F6M120	1F6	1999/7/25	3/11/2011	4247	11.64	37328
1FPPOOL	F6M121	1F6	1999/7/25	3/11/2011	4247	11.64	37260
1FPPOOL	F6M122	1F6	1999/7/25	3/11/2011	4247	11.64	36954
1FPPOOL	F1P65	1F1	1999/7/16	3/11/2011	4256	11.66	33185
1FPPOOL	F1P66	1F1	1999/7/16	3/11/2011	4256	11.66	33302
1FPPOOL	F1P67	1F1	1999/7/16	3/11/2011	4256	11.66	33353
1FPPOOL	F1P68	1F1	1999/7/16	3/11/2011	4256	11.66	33189
1FPPOOL	F1P73	1F1	1999/7/16	3/11/2011	4256	11.66	33439
1FPPOOL	F1P74	1F1	1999/7/16	3/11/2011	4256	11.66	33493
1FPPOOL	F1P75	1F1	1999/7/16	3/11/2011	4256	11.66	33549
1FPPOOL	F1P76	1F1	1999/7/16	3/11/2011	4256	11.66	33521
1FPPOOL	F1P9	1F1	1999/7/16	3/11/2011	4256	11.66	32080
1FPPOOL	F1R1	1F1	1999/7/16	3/11/2011	4256	11.66	35820
1FPPOOL	F1R2	1F1	1999/7/16	3/11/2011	4256	11.66	35901
1FPPOOL	F1R29	1F1	1999/7/16	3/11/2011	4256	11.66	35777
1FPPOOL	F1R3	1F1	1999/7/16	3/11/2011	4256	11.66	35898
1FPPOOL	F1R30	1F1	1999/7/16	3/11/2011	4256	11.66	35738
1FPPOOL	F1R31	1F1	1999/7/16	3/11/2011	4256	11.66	35796
1FPPOOL	F1R32	1F1	1999/7/16	3/11/2011	4256	11.66	35767
1FPPOOL	F1R4	1F1	1999/7/16	3/11/2011	4256	11.66	35881
1FPPOOL	F1N109	1F1	1999/7/16	3/11/2011	4256	11.66	35007
1FPPOOL	F6J14	1F6	1999/7/25	3/11/2011	4247	11.64	35217
1FPPOOL	F6J15	1F6	1999/7/25	3/11/2011	4247	11.64	35097
1FPPOOL	F6J21	1F6	1999/7/25	3/11/2011	4247	11.64	34871
1FPPOOL	F6J22	1F6	1999/7/25	3/11/2011	4247	11.64	35399
1FPPOOL	F6J32	1F6	1999/7/25	3/11/2011	4247	11.64	35521
1FPPOOL	F6J38	1F6	1999/7/25	3/11/2011	4247	11.64	34821
1FPPOOL	F6J39	1F6	1999/7/25	3/11/2011	4247	11.64	34726
1FPPOOL	F6K11	1F6	1999/7/25	3/11/2011	4247	11.64	33948
1FPPOOL	F6K154	1F6	1999/7/25	3/11/2011	4247	11.64	33938
1FPPOOL	F6K159	1F6	1999/7/25	3/11/2011	4247	11.64	34113
1FPPOOL	F6K16	1F6	1999/7/25	3/11/2011	4247	11.64	36256
1FPPOOL	F6K179	1F6	1999/7/25	3/11/2011	4247	11.64	36127
1FPPOOL	F6K180	1F6	1999/7/25	3/11/2011	4247	11.64	36066
1FPPOOL	F6K190	1F6	1999/7/25	3/11/2011	4247	11.64	35785
1FPPOOL	F6K212	1F6	1999/7/25	3/11/2011	4247	11.64	33014
1FPPOOL	F6K215	1F6	1999/7/25	3/11/2011	4247	11.64	34178
1FPPOOL	F1N110	1F1	1999/7/16	3/11/2011	4256	11.66	35091
1FPPOOL	F1N111	1F1	1999/7/16	3/11/2011	4256	11.66	35012
1FPPOOL	F1N112	1F1	1999/7/16	3/11/2011	4256	11.66	35028
1FPPOOL	F1N53	1F1	1999/7/16	3/11/2011	4256	11.66	33305
1FPPOOL	F1N54	1F1	1999/7/16	3/11/2011	4256	11.66	33358
1FPPOOL	F1N55	1F1	1999/7/16	3/11/2011	4256	11.66	33308
1FPPOOL	F1N56	1F1	1999/7/16	3/11/2011	4256	11.66	33343

1FPPOOL	F1N57	1F1	1999/7/16	3/11/2011	4256	11.66	32166
1FPPOOL	F1N58	1F1	1999/7/16	3/11/2011	4256	11.66	32254
1FPPOOL	F1N59	1F1	1999/7/16	3/11/2011	4256	11.66	32197
1FPPOOL	F1N60	1F1	1999/7/16	3/11/2011	4256	11.66	32197
1FPPOOL	F6K6	1F6	1999/7/25	3/11/2011	4247	11.64	33688
1FPPOOL	F6L1	1F6	1999/7/25	3/11/2011	4247	11.64	41557
1FPPOOL	F6L101	1F6	1999/7/25	3/11/2011	4247	11.64	37780
1FPPOOL	F6L102	1F6	1999/7/25	3/11/2011	4247	11.64	37749
1FPPOOL	F6L103	1F6	1999/7/25	3/11/2011	4247	11.64	37422
1FPPOOL	F6L111	1F6	1999/7/25	3/11/2011	4247	11.64	39236
1FPPOOL	F6L112	1F6	1999/7/25	3/11/2011	4247	11.64	39254
1FPPOOL	F6L116	1F6	1999/7/25	3/11/2011	4247	11.64	39739
1FPPOOL	F6L12	1F6	1999/7/25	3/11/2011	4247	11.64	39035
1FPPOOL	F6L125	1F6	1999/7/25	3/11/2011	4247	11.64	41105
1FPPOOL	F6L128	1F6	1999/7/25	3/11/2011	4247	11.64	41250
1FPPOOL	F6L129	1F6	1999/7/25	3/11/2011	4247	11.64	39434
1FPPOOL	F6L13	1F6	1999/7/25	3/11/2011	4247	11.64	41298
1FPPOOL	F6L133	1F6	1999/7/25	3/11/2011	4247	11.64	39213
1FPPOOL	F6L134	1F6	1999/7/25	3/11/2011	4247	11.64	39308
1FPPOOL	F6L139	1F6	1999/7/25	3/11/2011	4247	11.64	39534
1FPPOOL	F6L14	1F6	1999/7/25	3/11/2011	4247	11.64	41416
1FPPOOL	F6K224	1F6	1999/7/25	3/11/2011	4247	11.64	33913
1FPPOOL	F6K225	1F6	1999/7/25	3/11/2011	4247	11.64	34058
1FPPOOL	F6K227	1F6	1999/7/25	3/11/2011	4247	11.64	32953
1FPPOOL	F6K228	1F6	1999/7/25	3/11/2011	4247	11.64	34064
1FPPOOL	F6K229	1F6	1999/7/25	3/11/2011	4247	11.64	34042
1FPPOOL	F6M41	1F6	1999/7/25	3/11/2011	4247	11.64	37148
1FPPOOL	F1N65	1F1	1999/7/16	3/11/2011	4256	11.66	32488
1FPPOOL	F1N66	1F1	1999/7/16	3/11/2011	4256	11.66	32550
1FPPOOL	F1N67	1F1	1999/7/16	3/11/2011	4256	11.66	32599
1FPPOOL	F1N68	1F1	1999/7/16	3/11/2011	4256	11.66	32572
1FPPOOL	F1N69	1F1	1999/7/16	3/11/2011	4256	11.66	32656
1FPPOOL	F1N70	1F1	1999/7/16	3/11/2011	4256	11.66	32629
1FPPOOL	F1N71	1F1	1999/7/16	3/11/2011	4256	11.66	32634
1FPPOOL	F1N72	1F1	1999/7/16	3/11/2011	4256	11.66	32627
1FPPOOL	F1N73	1F1	1999/7/16	3/11/2011	4256	11.66	32157
1FPPOOL	F1N74	1F1	1999/7/16	3/11/2011	4256	11.66	32168
1FPPOOL	F1N75	1F1	1999/7/16	3/11/2011	4256	11.66	32282
1FPPOOL	F1N76	1F1	1999/7/16	3/11/2011	4256	11.66	32252
1FPPOOL	F1N77	1F1	1999/7/16	3/11/2011	4256	11.66	32450
1FPPOOL	F1N78	1F1	1999/7/16	3/11/2011	4256	11.66	32555
1FPPOOL	F1N79	1F1	1999/7/16	3/11/2011	4256	11.66	32615
1FPPOOL	F1N80	1F1	1999/7/16	3/11/2011	4256	11.66	32470
1FPPOOL	F1P10	1F1	1999/7/16	3/11/2011	4256	11.66	32138
1FPPOOL	F1P11	1F1	1999/7/16	3/11/2011	4256	11.66	32155
1FPPOOL	F1P12	1F1	1999/7/16	3/11/2011	4256	11.66	32139
1FPPOOL	F1P13	1F1	1999/7/16	3/11/2011	4256	11.66	32655
1FPPOOL	F1P14	1F1	1999/7/16	3/11/2011	4256	11.66	32771
1FPPOOL	F1P15	1F1	1999/7/16	3/11/2011	4256	11.66	32860
1FPPOOL	F1P16	1F1	1999/7/16	3/11/2011	4256	11.66	32673
1FPPOOL	F1P17	1F1	1999/7/16	3/11/2011	4256	11.66	32082
1FPPOOL	F1P18	1F1	1999/7/16	3/11/2011	4256	11.66	32207
1FPPOOL	F1P19	1F1	1999/7/16	3/11/2011	4256	11.66	32232

1FPPOOL	F1P20	1F1	1999/7/16	3/11/2011	4256	11.66	32170
1FPPOOL	F1P49	1F1	1999/7/16	3/11/2011	4256	11.66	33507
1FPPOOL	F1P50	1F1	1999/7/16	3/11/2011	4256	11.66	33630
1FPPOOL	F6L143	1F6	1999/7/25	3/11/2011	4247	11.64	39102
1FPPOOL	F6L144	1F6	1999/7/25	3/11/2011	4247	11.64	39303
1FPPOOL	F6L145	1F6	1999/7/25	3/11/2011	4247	11.64	41773
1FPPOOL	F6L148	1F6	1999/7/25	3/11/2011	4247	11.64	41304
1FPPOOL	F6L15	1F6	1999/7/25	3/11/2011	4247	11.64	37645
1FPPOOL	F6L47	1F6	1999/7/25	3/11/2011	4247	11.64	41262
1FPPOOL	F1P51	1F1	1999/7/16	3/11/2011	4256	11.66	33580
1FPPOOL	F6L48	1F6	1999/7/25	3/11/2011	4247	11.64	41254
1FPPOOL	F6M126	1F6	1999/7/25	3/11/2011	4247	11.64	36966
1FPPOOL	F6M127	1F6	1999/7/25	3/11/2011	4247	11.64	37064
1FPPOOL	F6M13	1F6	1999/7/25	3/11/2011	4247	11.64	37008
1FPPOOL	F6M16	1F6	1999/7/25	3/11/2011	4247	11.64	37227
1FPPOOL	F6M2	1F6	1999/7/25	3/11/2011	4247	11.64	37048
1FPPOOL	F6M22	1F6	1999/7/25	3/11/2011	4247	11.64	37207
1FPPOOL	F6M29	1F6	1999/7/25	3/11/2011	4247	11.64	37308
1FPPOOL	F6M3	1F6	1999/7/25	3/11/2011	4247	11.64	37347
1FPPOOL	F6M36	1F6	1999/7/25	3/11/2011	4247	11.64	36988
1FPPOOL	F6M113	1F6	1999/7/25	3/11/2011	4247	11.64	37529
1FPPOOL	F6M51	1F6	1999/7/25	3/11/2011	4247	11.64	37440
1FPPOOL	F3P99	1F3	1999/10/11	3/11/2011	4169	11.42	32919
1FPPOOL	F3R10	1F3	1999/10/11	3/11/2011	4169	11.42	34361
1FPPOOL	F3P22	1F3	1999/10/11	3/11/2011	4169	11.42	32753
1FPPOOL	F3R45	1F3	1999/10/11	3/11/2011	4169	11.42	33822
1FPPOOL	F3R46	1F3	1999/10/11	3/11/2011	4169	11.42	33843
1FPPOOL	F3R47	1F3	1999/10/11	3/11/2011	4169	11.42	33834
1FPPOOL	F3R48	1F3	1999/10/11	3/11/2011	4169	11.42	33840
1FPPOOL	F3R49	1F3	1999/10/11	3/11/2011	4169	11.42	33802
1FPPOOL	F3R5	1F3	1999/10/11	3/11/2011	4169	11.42	33081
1FPPOOL	F3R50	1F3	1999/10/11	3/11/2011	4169	11.42	33800
1FPPOOL	F3R51	1F3	1999/10/11	3/11/2011	4169	11.42	33826
1FPPOOL	F3R52	1F3	1999/10/11	3/11/2011	4169	11.42	33813
1FPPOOL	F3R6	1F3	1999/10/11	3/11/2011	4169	11.42	33061
1FPPOOL	F3R7	1F3	1999/10/11	3/11/2011	4169	11.42	33072
1FPPOOL	F3N102	1F3	1999/10/11	3/11/2011	4169	11.42	33845
1FPPOOL	F3P23	1F3	1999/10/11	3/11/2011	4169	11.42	32653
1FPPOOL	F3P24	1F3	1999/10/11	3/11/2011	4169	11.42	32763
1FPPOOL	F3P3	1F3	1999/10/11	3/11/2011	4169	11.42	32826
1FPPOOL	F3P33	1F3	1999/10/11	3/11/2011	4169	11.42	33310
1FPPOOL	F3P34	1F3	1999/10/11	3/11/2011	4169	11.42	33282
1FPPOOL	F3P35	1F3	1999/10/11	3/11/2011	4169	11.42	33303
1FPPOOL	F3P36	1F3	1999/10/11	3/11/2011	4169	11.42	33297
1FPPOOL	F3P37	1F3	1999/10/11	3/11/2011	4169	11.42	33299
1FPPOOL	F3P38	1F3	1999/10/11	3/11/2011	4169	11.42	33310
1FPPOOL	F3P39	1F3	1999/10/11	3/11/2011	4169	11.42	33316
1FPPOOL	F3P4	1F3	1999/10/11	3/11/2011	4169	11.42	32781
1FPPOOL	F3P40	1F3	1999/10/11	3/11/2011	4169	11.42	33326
1FPPOOL	F3P41	1F3	1999/10/11	3/11/2011	4169	11.42	37736
1FPPOOL	F3P42	1F3	1999/10/11	3/11/2011	4169	11.42	37595
1FPPOOL	F3P43	1F3	1999/10/11	3/11/2011	4169	11.42	37755
1FPPOOL	F3P44	1F3	1999/10/11	3/11/2011	4169	11.42	37594

1FPPOOL	F3P45	1F3	1999/10/11	3/11/2011	4169	11.42	37505
1FPPOOL	F3P46	1F3	1999/10/11	3/11/2011	4169	11.42	37607
1FPPOOL	F3P47	1F3	1999/10/11	3/11/2011	4169	11.42	37493
1FPPOOL	F3P48	1F3	1999/10/11	3/11/2011	4169	11.42	37617
1FPPOOL	F3P49	1F3	1999/10/11	3/11/2011	4169	11.42	33011
1FPPOOL	F3P5	1F3	1999/10/11	3/11/2011	4169	11.42	32667
1FPPOOL	F3P50	1F3	1999/10/11	3/11/2011	4169	11.42	33433
1FPPOOL	F3P51	1F3	1999/10/11	3/11/2011	4169	11.42	32986
1FPPOOL	F3P52	1F3	1999/10/11	3/11/2011	4169	11.42	33426
1FPPOOL	F3P53	1F3	1999/10/11	3/11/2011	4169	11.42	32361
1FPPOOL	F3P54	1F3	1999/10/11	3/11/2011	4169	11.42	31735
1FPPOOL	F3P55	1F3	1999/10/11	3/11/2011	4169	11.42	32353
1FPPOOL	F3P56	1F3	1999/10/11	3/11/2011	4169	11.42	31757
1FPPOOL	F3P57	1F3	1999/10/11	3/11/2011	4169	11.42	32814
1FPPOOL	F3P58	1F3	1999/10/11	3/11/2011	4169	11.42	32724
1FPPOOL	F3P59	1F3	1999/10/11	3/11/2011	4169	11.42	32819
1FPPOOL	F3P6	1F3	1999/10/11	3/11/2011	4169	11.42	32723
1FPPOOL	F3P60	1F3	1999/10/11	3/11/2011	4169	11.42	32758
1FPPOOL	F3P61	1F3	1999/10/11	3/11/2011	4169	11.42	31801
1FPPOOL	F3P62	1F3	1999/10/11	3/11/2011	4169	11.42	32423
1FPPOOL	F3P63	1F3	1999/10/11	3/11/2011	4169	11.42	31782
1FPPOOL	F3P64	1F3	1999/10/11	3/11/2011	4169	11.42	32405
1FPPOOL	F3P65	1F3	1999/10/11	3/11/2011	4169	11.42	34065
1FPPOOL	F3P66	1F3	1999/10/11	3/11/2011	4169	11.42	34029
1FPPOOL	F3P67	1F3	1999/10/11	3/11/2011	4169	11.42	34072
1FPPOOL	F3P68	1F3	1999/10/11	3/11/2011	4169	11.42	34077
1FPPOOL	F3P69	1F3	1999/10/11	3/11/2011	4169	11.42	33962
1FPPOOL	F3P7	1F3	1999/10/11	3/11/2011	4169	11.42	32673
1FPPOOL	F3P70	1F3	1999/10/11	3/11/2011	4169	11.42	33932
1FPPOOL	F3P71	1F3	1999/10/11	3/11/2011	4169	11.42	33961
1FPPOOL	F3P72	1F3	1999/10/11	3/11/2011	4169	11.42	33935
1FPPOOL	F3P73	1F3	1999/10/11	3/11/2011	4169	11.42	33848
1FPPOOL	F3P74	1F3	1999/10/11	3/11/2011	4169	11.42	33857
1FPPOOL	F3P75	1F3	1999/10/11	3/11/2011	4169	11.42	33822
1FPPOOL	F3P76	1F3	1999/10/11	3/11/2011	4169	11.42	33831
1FPPOOL	F3P77	1F3	1999/10/11	3/11/2011	4169	11.42	33840
1FPPOOL	F3P78	1F3	1999/10/11	3/11/2011	4169	11.42	33828
1FPPOOL	F3P79	1F3	1999/10/11	3/11/2011	4169	11.42	33838
1FPPOOL	F3P8	1F3	1999/10/11	3/11/2011	4169	11.42	32707
1FPPOOL	F3P80	1F3	1999/10/11	3/11/2011	4169	11.42	33837
1FPPOOL	F3P81	1F3	1999/10/11	3/11/2011	4169	11.42	31768
1FPPOOL	F3P82	1F3	1999/10/11	3/11/2011	4169	11.42	31743
1FPPOOL	F3P83	1F3	1999/10/11	3/11/2011	4169	11.42	31780
1FPPOOL	F3P84	1F3	1999/10/11	3/11/2011	4169	11.42	31741
1FPPOOL	F3P85	1F3	1999/10/11	3/11/2011	4169	11.42	32220
1FPPOOL	F3P86	1F3	1999/10/11	3/11/2011	4169	11.42	32235
1FPPOOL	F3P87	1F3	1999/10/11	3/11/2011	4169	11.42	32238
1FPPOOL	F3P88	1F3	1999/10/11	3/11/2011	4169	11.42	32251
1FPPOOL	F3P9	1F3	1999/10/11	3/11/2011	4169	11.42	32506
1FPPOOL	F3P97	1F3	1999/10/11	3/11/2011	4169	11.42	32894
1FPPOOL	F3P98	1F3	1999/10/11	3/11/2011	4169	11.42	32713
1FPPOOL	F3R11	1F3	1999/10/11	3/11/2011	4169	11.42	34331
1FPPOOL	F3R12	1F3	1999/10/11	3/11/2011	4169	11.42	34349

1FPPOOL	F3R13	1F3	1999/10/11	3/11/2011	4169	11.42	34408
1FPPOOL	F3R14	1F3	1999/10/11	3/11/2011	4169	11.42	34376
1FPPOOL	F3R15	1F3	1999/10/11	3/11/2011	4169	11.42	34391
1FPPOOL	F3R16	1F3	1999/10/11	3/11/2011	4169	11.42	34376
1FPPOOL	F3R8	1F3	1999/10/11	3/11/2011	4169	11.42	33089
1FPPOOL	F3R9	1F3	1999/10/11	3/11/2011	4169	11.42	34331
1FPPOOL	F3N13	1F3	1999/10/11	3/11/2011	4169	11.42	31873
1FPPOOL	F3N14	1F3	1999/10/11	3/11/2011	4169	11.42	31438
1FPPOOL	F3N15	1F3	1999/10/11	3/11/2011	4169	11.42	31866
1FPPOOL	F3N16	1F3	1999/10/11	3/11/2011	4169	11.42	31468
1FPPOOL	F3N69	1F3	1999/10/11	3/11/2011	4169	11.42	32534
1FPPOOL	F3N70	1F3	1999/10/11	3/11/2011	4169	11.42	32664
1FPPOOL	F3N71	1F3	1999/10/11	3/11/2011	4169	11.42	32517
1FPPOOL	F3N72	1F3	1999/10/11	3/11/2011	4169	11.42	32532
1FPPOOL	F3N73	1F3	1999/10/11	3/11/2011	4169	11.42	32621
1FPPOOL	F3N74	1F3	1999/10/11	3/11/2011	4169	11.42	32544
1FPPOOL	F3N75	1F3	1999/10/11	3/11/2011	4169	11.42	32659
1FPPOOL	F3N76	1F3	1999/10/11	3/11/2011	4169	11.42	32478
1FPPOOL	F3N78	1F3	1999/10/11	3/11/2011	4169	11.42	32060
1FPPOOL	F3N80	1F3	1999/10/11	3/11/2011	4169	11.42	32036
1FPPOOL	F3N81	1F3	1999/10/11	3/11/2011	4169	11.42	32012
1FPPOOL	F3N83	1F3	1999/10/11	3/11/2011	4169	11.42	32026
1FPPOOL	F3P1	1F3	1999/10/11	3/11/2011	4169	11.42	32829
1FPPOOL	F3P10	1F3	1999/10/11	3/11/2011	4169	11.42	32548
1FPPOOL	F3P100	1F3	1999/10/11	3/11/2011	4169	11.42	32703
1FPPOOL	F3P109	1F3	1999/10/11	3/11/2011	4169	11.42	33170
1FPPOOL	F3P11	1F3	1999/10/11	3/11/2011	4169	11.42	32502
1FPPOOL	F3P110	1F3	1999/10/11	3/11/2011	4169	11.42	33287
1FPPOOL	F3P111	1F3	1999/10/11	3/11/2011	4169	11.42	33198
1FPPOOL	F3P112	1F3	1999/10/11	3/11/2011	4169	11.42	33276
1FPPOOL	F3P113	1F3	1999/10/11	3/11/2011	4169	11.42	33307
1FPPOOL	F3P114	1F3	1999/10/11	3/11/2011	4169	11.42	33237
1FPPOOL	F3P115	1F3	1999/10/11	3/11/2011	4169	11.42	33307
1FPPOOL	F3P116	1F3	1999/10/11	3/11/2011	4169	11.42	33174
1FPPOOL	F3P12	1F3	1999/10/11	3/11/2011	4169	11.42	32535
1FPPOOL	F3P125	1F3	1999/10/11	3/11/2011	4169	11.42	38384
1FPPOOL	F3P126	1F3	1999/10/11	3/11/2011	4169	11.42	38364
1FPPOOL	F3P127	1F3	1999/10/11	3/11/2011	4169	11.42	38389
1FPPOOL	F3P128	1F3	1999/10/11	3/11/2011	4169	11.42	38377
1FPPOOL	F3P129	1F3	1999/10/11	3/11/2011	4169	11.42	38452
1FPPOOL	F3P13	1F3	1999/10/11	3/11/2011	4169	11.42	33041
1FPPOOL	F3P130	1F3	1999/10/11	3/11/2011	4169	11.42	38429
1FPPOOL	F3P131	1F3	1999/10/11	3/11/2011	4169	11.42	38392
1FPPOOL	F3P132	1F3	1999/10/11	3/11/2011	4169	11.42	38452
1FPPOOL	F3P14	1F3	1999/10/11	3/11/2011	4169	11.42	32941
1FPPOOL	F3P144	1F3	1999/10/11	3/11/2011	4169	11.42	32786
1FPPOOL	F3P147	1F3	1999/10/11	3/11/2011	4169	11.42	32800
1FPPOOL	F3P149	1F3	1999/10/11	3/11/2011	4169	11.42	36790
1FPPOOL	F3P15	1F3	1999/10/11	3/11/2011	4169	11.42	33046
1FPPOOL	F3P150	1F3	1999/10/11	3/11/2011	4169	11.42	36879
1FPPOOL	F3P151	1F3	1999/10/11	3/11/2011	4169	11.42	36786
1FPPOOL	F3P152	1F3	1999/10/11	3/11/2011	4169	11.42	36863
1FPPOOL	F3P153	1F3	1999/10/11	3/11/2011	4169	11.42	36954

1FPPOOL	F3P154	1F3	1999/10/11	3/11/2011	4169	11.42	36876
1FPPOOL	F3P155	1F3	1999/10/11	3/11/2011	4169	11.42	36956
1FPPOOL	F3P156	1F3	1999/10/11	3/11/2011	4169	11.42	36882
1FPPOOL	F3P159	1F3	1999/10/11	3/11/2011	4169	11.42	33884
1FPPOOL	F3P16	1F3	1999/10/11	3/11/2011	4169	11.42	32944
1FPPOOL	F3P165	1F3	1999/10/11	3/11/2011	4169	11.42	32592
1FPPOOL	F3P166	1F3	1999/10/11	3/11/2011	4169	11.42	32681
1FPPOOL	F3P167	1F3	1999/10/11	3/11/2011	4169	11.42	32530
1FPPOOL	F3P168	1F3	1999/10/11	3/11/2011	4169	11.42	32663
1FPPOOL	F3P169	1F3	1999/10/11	3/11/2011	4169	11.42	33196
1FPPOOL	F3P17	1F3	1999/10/11	3/11/2011	4169	11.42	33306
1FPPOOL	F3P170	1F3	1999/10/11	3/11/2011	4169	11.42	33162
1FPPOOL	F3P171	1F3	1999/10/11	3/11/2011	4169	11.42	33212
1FPPOOL	F3P172	1F3	1999/10/11	3/11/2011	4169	11.42	33164
1FPPOOL	F3P173	1F3	1999/10/11	3/11/2011	4169	11.42	33044
1FPPOOL	F3P174	1F3	1999/10/11	3/11/2011	4169	11.42	33027
1FPPOOL	F3P175	1F3	1999/10/11	3/11/2011	4169	11.42	33038
1FPPOOL	F3P176	1F3	1999/10/11	3/11/2011	4169	11.42	33030
1FPPOOL	F3P18	1F3	1999/10/11	3/11/2011	4169	11.42	32975
1FPPOOL	F3P19	1F3	1999/10/11	3/11/2011	4169	11.42	33316
1FPPOOL	F3P2	1F3	1999/10/11	3/11/2011	4169	11.42	32778
1FPPOOL	F3P20	1F3	1999/10/11	3/11/2011	4169	11.42	32989
1FPPOOL	F3P21	1F3	1999/10/11	3/11/2011	4169	11.42	32653
1FPPOOL	F5M21	1F5	1999/12/8	3/11/2011	4111	11.26	33860
1FPPOOL	F5M22	1F5	1999/12/8	3/11/2011	4111	11.26	33822
1FPPOOL	F5M24	1F5	1999/12/8	3/11/2011	4111	11.26	33805
1FPPOOL	F5M33	1F5	1999/12/8	3/11/2011	4111	11.26	32153
1FPPOOL	F5M34	1F5	1999/12/8	3/11/2011	4111	11.26	32149
1FPPOOL	F5M35	1F5	1999/12/8	3/11/2011	4111	11.26	32170
1FPPOOL	F5M36	1F5	1999/12/8	3/11/2011	4111	11.26	32119
1FPPOOL	F5MN119	1F5	1999/12/8	3/11/2011	4111	11.26	32323
1FPPOOL	F5MN120	1F5	1999/12/8	3/11/2011	4111	11.26	32251
1FPPOOL	F5MN121	1F5	1999/12/8	3/11/2011	4111	11.26	32057
1FPPOOL	F5MN122	1F5	1999/12/8	3/11/2011	4111	11.26	32056
1FPPOOL	F5MN123	1F5	1999/12/8	3/11/2011	4111	11.26	32347
1FPPOOL	F5MN124	1F5	1999/12/8	3/11/2011	4111	11.26	32324
1FPPOOL	F4M164	1F4	2000/5/17	3/11/2011	3950	10.82	35876
1FPPOOL	F4M165	1F4	2000/5/17	3/11/2011	3950	10.82	35283
1FPPOOL	F4M167	1F4	2000/5/17	3/11/2011	3950	10.82	34438
1FPPOOL	F4M172	1F4	2000/5/17	3/11/2011	3950	10.82	35308
1FPPOOL	F4M173	1F4	2000/5/17	3/11/2011	3950	10.82	35873
1FPPOOL	F4M175	1F4	2000/5/17	3/11/2011	3950	10.82	34421
1FPPOOL	F4M182	1F4	2000/5/17	3/11/2011	3950	10.82	35276
1FPPOOL	F4M183	1F4	2000/5/17	3/11/2011	3950	10.82	35906
1FPPOOL	F4M185	1F4	2000/5/17	3/11/2011	3950	10.82	34428
1FPPOOL	F4M192	1F4	2000/5/17	3/11/2011	3950	10.82	35222
1FPPOOL	F4M193	1F4	2000/5/17	3/11/2011	3950	10.82	35836
1FPPOOL	F4M195	1F4	2000/5/17	3/11/2011	3950	10.82	34423
1FPPOOL	F2NN47	1F2	2000/7/23	3/11/2011	3883	10.64	30204
1FPPOOL	F2NN48	1F2	2000/7/23	3/11/2011	3883	10.64	30293
1FPPOOL	F2NN49	1F2	2000/7/23	3/11/2011	3883	10.64	30231
1FPPOOL	F2NN50	1F2	2000/7/23	3/11/2011	3883	10.64	32194
1FPPOOL	F2NN51	1F2	2000/7/23	3/11/2011	3883	10.64	32177

1FPPOOL	F2NN52	1F2	2000/7/23	3/11/2011	3883	10.64	30200
1FPPOOL	F2NN53	1F2	2000/7/23	3/11/2011	3883	10.64	30695
1FPPOOL	F2NN58	1F2	2000/7/23	3/11/2011	3883	10.64	32290
1FPPOOL	F2NN59	1F2	2000/7/23	3/11/2011	3883	10.64	32093
1FPPOOL	F2NN60	1F2	2000/7/23	3/11/2011	3883	10.64	30064
1FPPOOL	F2NN61	1F2	2000/7/23	3/11/2011	3883	10.64	30244
1FPPOOL	F2NN62	1F2	2000/7/23	3/11/2011	3883	10.64	30125
1FPPOOL	F2NN63	1F2	2000/7/23	3/11/2011	3883	10.64	30622
1FPPOOL	F2NN64	1F2	2000/7/23	3/11/2011	3883	10.64	30568
1FPPOOL	F2P1	1F2	2000/7/23	3/11/2011	3883	10.64	38672
1FPPOOL	F2P10	1F2	2000/7/23	3/11/2011	3883	10.64	41292
1FPPOOL	F2P11	1F2	2000/7/23	3/11/2011	3883	10.64	41186
1FPPOOL	F2P12	1F2	2000/7/23	3/11/2011	3883	10.64	38629
1FPPOOL	F2P13	1F2	2000/7/23	3/11/2011	3883	10.64	36774
1FPPOOL	F2P14	1F2	2000/7/23	3/11/2011	3883	10.64	41054
1FPPOOL	F2P15	1F2	2000/7/23	3/11/2011	3883	10.64	36882
1FPPOOL	F2P16	1F2	2000/7/23	3/11/2011	3883	10.64	36821
1FPPOOL	F2P17	1F2	2000/7/23	3/11/2011	3883	10.64	41138
1FPPOOL	F2P18	1F2	2000/7/23	3/11/2011	3883	10.64	36739
1FPPOOL	F2P19	1F2	2000/7/23	3/11/2011	3883	10.64	37817
1FPPOOL	F2P2	1F2	2000/7/23	3/11/2011	3883	10.64	36919
1FPPOOL	F2P20	1F2	2000/7/23	3/11/2011	3883	10.64	37091
1FPPOOL	F2P21	1F2	2000/7/23	3/11/2011	3883	10.64	37117
1FPPOOL	F2P22	1F2	2000/7/23	3/11/2011	3883	10.64	37997
1FPPOOL	F2P23	1F2	2000/7/23	3/11/2011	3883	10.64	37922
1FPPOOL	F2P24	1F2	2000/7/23	3/11/2011	3883	10.64	36904
1FPPOOL	F2P25	1F2	2000/7/23	3/11/2011	3883	10.64	36873
1FPPOOL	F2P26	1F2	2000/7/23	3/11/2011	3883	10.64	38146
1FPPOOL	F2P27	1F2	2000/7/23	3/11/2011	3883	10.64	36908
1FPPOOL	F2P28	1F2	2000/7/23	3/11/2011	3883	10.64	36933
1FPPOOL	F2P29	1F2	2000/7/23	3/11/2011	3883	10.64	36899
1FPPOOL	F2P3	1F2	2000/7/23	3/11/2011	3883	10.64	38109
1FPPOOL	F2P30	1F2	2000/7/23	3/11/2011	3883	10.64	36892
1FPPOOL	F2P31	1F2	2000/7/23	3/11/2011	3883	10.64	37935
1FPPOOL	F2P32	1F2	2000/7/23	3/11/2011	3883	10.64	36830
1FPPOOL	F2P33	1F2	2000/7/23	3/11/2011	3883	10.64	36885
1FPPOOL	F2P34	1F2	2000/7/23	3/11/2011	3883	10.64	38070
1FPPOOL	F2P35	1F2	2000/7/23	3/11/2011	3883	10.64	37847
1FPPOOL	F2P36	1F2	2000/7/23	3/11/2011	3883	10.64	37059
1FPPOOL	F2P37	1F2	2000/7/23	3/11/2011	3883	10.64	37023
1FPPOOL	F2P38	1F2	2000/7/23	3/11/2011	3883	10.64	37932
1FPPOOL	F2P39	1F2	2000/7/23	3/11/2011	3883	10.64	36743
1FPPOOL	F2P4	1F2	2000/7/23	3/11/2011	3883	10.64	38086
1FPPOOL	F2P40	1F2	2000/7/23	3/11/2011	3883	10.64	41078
1FPPOOL	F2P41	1F2	2000/7/23	3/11/2011	3883	10.64	36937
1FPPOOL	F2P42	1F2	2000/7/23	3/11/2011	3883	10.64	36884
1FPPOOL	F2P43	1F2	2000/7/23	3/11/2011	3883	10.64	41093
1FPPOOL	F2P44	1F2	2000/7/23	3/11/2011	3883	10.64	36821
1FPPOOL	F2P45	1F2	2000/7/23	3/11/2011	3883	10.64	38460
1FPPOOL	F2P46	1F2	2000/7/23	3/11/2011	3883	10.64	41154
1FPPOOL	F2P47	1F2	2000/7/23	3/11/2011	3883	10.64	41071
1FPPOOL	F2P48	1F2	2000/7/23	3/11/2011	3883	10.64	38606
1FPPOOL	F2P49	1F2	2000/7/23	3/11/2011	3883	10.64	38071

1FPPOOL	F2P5	1F2	2000/7/23	3/11/2011	3883	10.64	36692
1FPPOOL	F2P50	1F2	2000/7/23	3/11/2011	3883	10.64	37967
1FPPOOL	F2P51	1F2	2000/7/23	3/11/2011	3883	10.64	38626
1FPPOOL	F2P52	1F2	2000/7/23	3/11/2011	3883	10.64	36952
1FPPOOL	F2P53	1F2	2000/7/23	3/11/2011	3883	10.64	38126
1FPPOOL	F2P54	1F2	2000/7/23	3/11/2011	3883	10.64	37994
1FPPOOL	F2P55	1F2	2000/7/23	3/11/2011	3883	10.64	36798
1FPPOOL	F2P56	1F2	2000/7/23	3/11/2011	3883	10.64	38544
1FPPOOL	F2P7	1F2	2000/7/23	3/11/2011	3883	10.64	38078
1FPPOOL	F2P8	1F2	2000/7/23	3/11/2011	3883	10.64	38036
1FPPOOL	F2P9	1F2	2000/7/23	3/11/2011	3883	10.64	38542
1FPPOOL	F2PN1	1F2	2000/7/23	3/11/2011	3883	10.64	38621
1FPPOOL	F2PN10	1F2	2000/7/23	3/11/2011	3883	10.64	38479
1FPPOOL	F2PN11	1F2	2000/7/23	3/11/2011	3883	10.64	38659
1FPPOOL	F2PN12	1F2	2000/7/23	3/11/2011	3883	10.64	38869
1FPPOOL	F2PN13	1F2	2000/7/23	3/11/2011	3883	10.64	38717
1FPPOOL	F2PN14	1F2	2000/7/23	3/11/2011	3883	10.64	38814
1FPPOOL	F2PN15	1F2	2000/7/23	3/11/2011	3883	10.64	38446
1FPPOOL	F2PN16	1F2	2000/7/23	3/11/2011	3883	10.64	38485
1FPPOOL	F2PN17	1F2	2000/7/23	3/11/2011	3883	10.64	37486
1FPPOOL	F2PN18	1F2	2000/7/23	3/11/2011	3883	10.64	37541
1FPPOOL	F2PN19	1F2	2000/7/23	3/11/2011	3883	10.64	37552
1FPPOOL	F2PN2	1F2	2000/7/23	3/11/2011	3883	10.64	38501
1FPPOOL	F2PN20	1F2	2000/7/23	3/11/2011	3883	10.64	38932
1FPPOOL	F2PN21	1F2	2000/7/23	3/11/2011	3883	10.64	38734
1FPPOOL	F2PN22	1F2	2000/7/23	3/11/2011	3883	10.64	37426
1FPPOOL	F2PN23	1F2	2000/7/23	3/11/2011	3883	10.64	38679
1FPPOOL	F2PN24	1F2	2000/7/23	3/11/2011	3883	10.64	38491
1FPPOOL	F2PN3	1F2	2000/7/23	3/11/2011	3883	10.64	37490
1FPPOOL	F2PN4	1F2	2000/7/23	3/11/2011	3883	10.64	38801
1FPPOOL	F2PN5	1F2	2000/7/23	3/11/2011	3883	10.64	38775
1FPPOOL	F2PN6	1F2	2000/7/23	3/11/2011	3883	10.64	37422
1FPPOOL	F2PN7	1F2	2000/7/23	3/11/2011	3883	10.64	37430
1FPPOOL	F2PN8	1F2	2000/7/23	3/11/2011	3883	10.64	37543
1FPPOOL	F2PN9	1F2	2000/7/23	3/11/2011	3883	10.64	38391
1FPPOOL	F2NN54	1F2	2000/7/23	3/11/2011	3883	10.64	30651
1FPPOOL	F2NN55	1F2	2000/7/23	3/11/2011	3883	10.64	30635
1FPPOOL	F2NN56	1F2	2000/7/23	3/11/2011	3883	10.64	30669
1FPPOOL	F2NN57	1F2	2000/7/23	3/11/2011	3883	10.64	30198
1FPPOOL	F2N10	1F2	2000/7/23	3/11/2011	3883	10.64	33896
1FPPOOL	F2N11	1F2	2000/7/23	3/11/2011	3883	10.64	32610
1FPPOOL	F2N14	1F2	2000/7/23	3/11/2011	3883	10.64	32539
1FPPOOL	F2N15	1F2	2000/7/23	3/11/2011	3883	10.64	33951
1FPPOOL	F2N28	1F2	2000/7/23	3/11/2011	3883	10.64	34027
1FPPOOL	F2N29	1F2	2000/7/23	3/11/2011	3883	10.64	32689
1FPPOOL	F2N32	1F2	2000/7/23	3/11/2011	3883	10.64	32632
1FPPOOL	F2N33	1F2	2000/7/23	3/11/2011	3883	10.64	34029
1FPPOOL	F2N34	1F2	2000/7/23	3/11/2011	3883	10.64	34074
1FPPOOL	F2N39	1F2	2000/7/23	3/11/2011	3883	10.64	34036
1FPPOOL	F2N4	1F2	2000/7/23	3/11/2011	3883	10.64	34061
1FPPOOL	F2N60	1F2	2000/7/23	3/11/2011	3883	10.64	31471
1FPPOOL	F2N61	1F2	2000/7/23	3/11/2011	3883	10.64	31498
1FPPOOL	F2N66	1F2	2000/7/23	3/11/2011	3883	10.64	31530

1FPPOOL	F2N67	1F2	2000/7/23	3/11/2011	3883	10.64	31494
1FPPOOL	F2N88	1F2	2000/7/23	3/11/2011	3883	10.64	32935
1FPPOOL	F2N89	1F2	2000/7/23	3/11/2011	3883	10.64	32858
1FPPOOL	F2N9	1F2	2000/7/23	3/11/2011	3883	10.64	34043
1FPPOOL	F2N92	1F2	2000/7/23	3/11/2011	3883	10.64	32660
1FPPOOL	F2N93	1F2	2000/7/23	3/11/2011	3883	10.64	32778
1FPPOOL	F2N94	1F2	2000/7/23	3/11/2011	3883	10.64	32698
1FPPOOL	F2N95	1F2	2000/7/23	3/11/2011	3883	10.64	32747
1FPPOOL	F2N98	1F2	2000/7/23	3/11/2011	3883	10.64	32959
1FPPOOL	F2N99	1F2	2000/7/23	3/11/2011	3883	10.64	32851
1FPPOOL	F2NN19	1F2	2000/7/23	3/11/2011	3883	10.64	33431
1FPPOOL	F2NN20	1F2	2000/7/23	3/11/2011	3883	10.64	33404
1FPPOOL	F2NN21	1F2	2000/7/23	3/11/2011	3883	10.64	33251
1FPPOOL	F2NN22	1F2	2000/7/23	3/11/2011	3883	10.64	33284
1FPPOOL	F2NN35	1F2	2000/7/23	3/11/2011	3883	10.64	33211
1FPPOOL	F2NN36	1F2	2000/7/23	3/11/2011	3883	10.64	33255
1FPPOOL	F2NN37	1F2	2000/7/23	3/11/2011	3883	10.64	33401
1FPPOOL	F2NN38	1F2	2000/7/23	3/11/2011	3883	10.64	33370
1FPPOOL	F2NN45	1F2	2000/7/23	3/11/2011	3883	10.64	30753
1FPPOOL	F2NN46	1F2	2000/7/23	3/11/2011	3883	10.64	30740
1FPPOOL	F2P6	1F2	2000/7/23	3/11/2011	3883	10.64	38622
1FPPOOL	F6L67	1F6	2000/11/8	3/11/2011	3775	10.34	37167
1FPPOOL	F6N100	1F6	2000/11/8	3/11/2011	3775	10.34	37215
1FPPOOL	F6N102	1F6	2000/11/8	3/11/2011	3775	10.34	37190
1FPPOOL	F6N103	1F6	2000/11/8	3/11/2011	3775	10.34	36927
1FPPOOL	F6N104	1F6	2000/11/8	3/11/2011	3775	10.34	37359
1FPPOOL	F6N115	1F6	2000/11/8	3/11/2011	3775	10.34	36664
1FPPOOL	F6N41	1F6	2000/11/8	3/11/2011	3775	10.34	36646
1FPPOOL	F1P2	1F1	2000/12/21	3/11/2011	3732	10.22	32086
1FPPOOL	F6L68	1F6	2000/11/8	3/11/2011	3775	10.34	37285
1FPPOOL	F6L69	1F6	2000/11/8	3/11/2011	3775	10.34	37235
1FPPOOL	F6L70	1F6	2000/11/8	3/11/2011	3775	10.34	37551
1FPPOOL	F6L79	1F6	2000/11/8	3/11/2011	3775	10.34	37845
1FPPOOL	F6L86	1F6	2000/11/8	3/11/2011	3775	10.34	37293
1FPPOOL	F6L87	1F6	2000/11/8	3/11/2011	3775	10.34	37509
1FPPOOL	F6N42	1F6	2000/11/8	3/11/2011	3775	10.34	36661
1FPPOOL	F6N43	1F6	2000/11/8	3/11/2011	3775	10.34	36827
1FPPOOL	F6N45	1F6	2000/11/8	3/11/2011	3775	10.34	36791
1FPPOOL	F6N46	1F6	2000/11/8	3/11/2011	3775	10.34	36670
1FPPOOL	F6N48	1F6	2000/11/8	3/11/2011	3775	10.34	36899
1FPPOOL	F6N49	1F6	2000/11/8	3/11/2011	3775	10.34	37886
1FPPOOL	F6N50	1F6	2000/11/8	3/11/2011	3775	10.34	38038
1FPPOOL	F6N51	1F6	2000/11/8	3/11/2011	3775	10.34	38273
1FPPOOL	F6N52	1F6	2000/11/8	3/11/2011	3775	10.34	38021
1FPPOOL	F6N53	1F6	2000/11/8	3/11/2011	3775	10.34	37601
1FPPOOL	F6N54	1F6	2000/11/8	3/11/2011	3775	10.34	38082
1FPPOOL	F6N55	1F6	2000/11/8	3/11/2011	3775	10.34	37998
1FPPOOL	F6N56	1F6	2000/11/8	3/11/2011	3775	10.34	38215
1FPPOOL	F6N73	1F6	2000/11/8	3/11/2011	3775	10.34	36713
1FPPOOL	F6N74	1F6	2000/11/8	3/11/2011	3775	10.34	37139
1FPPOOL	F6N75	1F6	2000/11/8	3/11/2011	3775	10.34	37053
1FPPOOL	F6N77	1F6	2000/11/8	3/11/2011	3775	10.34	36694
1FPPOOL	F6N78	1F6	2000/11/8	3/11/2011	3775	10.34	37163

1FPPOOL	F6N79	1F6	2000/11/8	3/11/2011	3775	10.34	36839
1FPPOOL	F6N80	1F6	2000/11/8	3/11/2011	3775	10.34	37240
1FPPOOL	F6N82	1F6	2000/11/8	3/11/2011	3775	10.34	36875
1FPPOOL	F6N86	1F6	2000/11/8	3/11/2011	3775	10.34	36863
1FPPOOL	F6L57	1F6	2000/11/8	3/11/2011	3775	10.34	37513
1FPPOOL	F1N61	1F1	2000/12/21	3/11/2011	3732	10.22	32316
1FPPOOL	F1N62	1F1	2000/12/21	3/11/2011	3732	10.22	32328
1FPPOOL	F1N63	1F1	2000/12/21	3/11/2011	3732	10.22	32295
1FPPOOL	F1N64	1F1	2000/12/21	3/11/2011	3732	10.22	32251
1FPPOOL	F1P1	1F1	2000/12/21	3/11/2011	3732	10.22	31925
1FPPOOL	F1P21	1F1	2000/12/21	3/11/2011	3732	10.22	32254
1FPPOOL	F1P22	1F1	2000/12/21	3/11/2011	3732	10.22	32325
1FPPOOL	F1P23	1F1	2000/12/21	3/11/2011	3732	10.22	32208
1FPPOOL	F1P24	1F1	2000/12/21	3/11/2011	3732	10.22	32186
1FPPOOL	F1P25	1F1	2000/12/21	3/11/2011	3732	10.22	35260
1FPPOOL	F1P26	1F1	2000/12/21	3/11/2011	3732	10.22	35260
1FPPOOL	F1P27	1F1	2000/12/21	3/11/2011	3732	10.22	35260
1FPPOOL	F1P28	1F1	2000/12/21	3/11/2011	3732	10.22	35233
1FPPOOL	F1P29	1F1	2000/12/21	3/11/2011	3732	10.22	35192
1FPPOOL	F1P3	1F1	2000/12/21	3/11/2011	3732	10.22	32007
1FPPOOL	F1P30	1F1	2000/12/21	3/11/2011	3732	10.22	35214
1FPPOOL	F1P31	1F1	2000/12/21	3/11/2011	3732	10.22	35257
1FPPOOL	F1P32	1F1	2000/12/21	3/11/2011	3732	10.22	35250
1FPPOOL	F1P33	1F1	2000/12/21	3/11/2011	3732	10.22	33162
1FPPOOL	F1P34	1F1	2000/12/21	3/11/2011	3732	10.22	33281
1FPPOOL	F1P35	1F1	2000/12/21	3/11/2011	3732	10.22	33250
1FPPOOL	F1P36	1F1	2000/12/21	3/11/2011	3732	10.22	33136
1FPPOOL	F1P37	1F1	2000/12/21	3/11/2011	3732	10.22	33966
1FPPOOL	F1P38	1F1	2000/12/21	3/11/2011	3732	10.22	34093
1FPPOOL	F1P39	1F1	2000/12/21	3/11/2011	3732	10.22	34074
1FPPOOL	F1P4	1F1	2000/12/21	3/11/2011	3732	10.22	31892
1FPPOOL	F1P40	1F1	2000/12/21	3/11/2011	3732	10.22	34002
1FPPOOL	F1P5	1F1	2000/12/21	3/11/2011	3732	10.22	31129
1FPPOOL	F1P6	1F1	2000/12/21	3/11/2011	3732	10.22	31309
1FPPOOL	F1P61	1F1	2000/12/21	3/11/2011	3732	10.22	31758
1FPPOOL	F1P62	1F1	2000/12/21	3/11/2011	3732	10.22	31990
1FPPOOL	F1P63	1F1	2000/12/21	3/11/2011	3732	10.22	31813
1FPPOOL	F1P64	1F1	2000/12/21	3/11/2011	3732	10.22	31843
1FPPOOL	F1P69	1F1	2000/12/21	3/11/2011	3732	10.22	34634
1FPPOOL	F1P7	1F1	2000/12/21	3/11/2011	3732	10.22	31225
1FPPOOL	F1P70	1F1	2000/12/21	3/11/2011	3732	10.22	34693
1FPPOOL	F1P71	1F1	2000/12/21	3/11/2011	3732	10.22	34608
1FPPOOL	F1P72	1F1	2000/12/21	3/11/2011	3732	10.22	34590
1FPPOOL	F1P77	1F1	2000/12/21	3/11/2011	3732	10.22	33997
1FPPOOL	F1P78	1F1	2000/12/21	3/11/2011	3732	10.22	34096
1FPPOOL	F1P79	1F1	2000/12/21	3/11/2011	3732	10.22	33933
1FPPOOL	F1P8	1F1	2000/12/21	3/11/2011	3732	10.22	31234
1FPPOOL	F1P80	1F1	2000/12/21	3/11/2011	3732	10.22	33937
1FPPOOL	F1R10	1F1	2000/12/21	3/11/2011	3732	10.22	36635
1FPPOOL	F1R11	1F1	2000/12/21	3/11/2011	3732	10.22	36505
1FPPOOL	F1R12	1F1	2000/12/21	3/11/2011	3732	10.22	36540
1FPPOOL	F1R13	1F1	2000/12/21	3/11/2011	3732	10.22	35180
1FPPOOL	F1R14	1F1	2000/12/21	3/11/2011	3732	10.22	35202

1FPPOOL	F1R15	1F1	2000/12/21	3/11/2011	3732	10.22	35104
1FPPOOL	F1R16	1F1	2000/12/21	3/11/2011	3732	10.22	35120
1FPPOOL	F1R9	1F1	2000/12/21	3/11/2011	3732	10.22	36621
1FPPOOL	F1SN5	1F1	2000/12/21	3/11/2011	3732	10.22	36581
1FPPOOL	F1SN6	1F1	2000/12/21	3/11/2011	3732	10.22	36643
1FPPOOL	F6N97	1F6	2000/11/8	3/11/2011	3775	10.34	37052
1FPPOOL	F6N98	1F6	2000/11/8	3/11/2011	3775	10.34	37183
1FPPOOL	F6N99	1F6	2000/11/8	3/11/2011	3775	10.34	37134
1FPPOOL	F1S5	1F1	2000/12/21	3/11/2011	3732	10.22	35662
1FPPOOL	F1S6	1F1	2000/12/21	3/11/2011	3732	10.22	35657
1FPPOOL	F1S7	1F1	2000/12/21	3/11/2011	3732	10.22	35627
1FPPOOL	F1S8	1F1	2000/12/21	3/11/2011	3732	10.22	35554
1FPPOOL	F1S9	1F1	2000/12/21	3/11/2011	3732	10.22	35151
1FPPOOL	F1S10	1F1	2000/12/21	3/11/2011	3732	10.22	35248
1FPPOOL	F1S11	1F1	2000/12/21	3/11/2011	3732	10.22	35182
1FPPOOL	F1S12	1F1	2000/12/21	3/11/2011	3732	10.22	35244
1FPPOOL	F1SN7	1F1	2000/12/21	3/11/2011	3732	10.22	36585
1FPPOOL	F1SN8	1F1	2000/12/21	3/11/2011	3732	10.22	36574
1FPPOOL	F6K206	1F6	2000/11/8	3/11/2011	3775	10.34	36356
1FPPOOL	F6K226	1F6	2000/11/8	3/11/2011	3775	10.34	36096
1FPPOOL	F6K248	1F6	2000/11/8	3/11/2011	3775	10.34	36325
1FPPOOL	F6L50	1F6	2000/11/8	3/11/2011	3775	10.34	37242
1FPPOOL	F6L51	1F6	2000/11/8	3/11/2011	3775	10.34	37702
1FPPOOL	F3R25	1F3	2001/4/3	3/11/2011	3629	9.94	41622
1FPPOOL	F3R108	1F3	2001/4/3	3/11/2011	3629	9.94	39136
1FPPOOL	F3R26	1F3	2001/4/3	3/11/2011	3629	9.94	41635
1FPPOOL	F3R109	1F3	2001/4/3	3/11/2011	3629	9.94	39312
1FPPOOL	F3R110	1F3	2001/4/3	3/11/2011	3629	9.94	39294
1FPPOOL	F3R111	1F3	2001/4/3	3/11/2011	3629	9.94	39314
1FPPOOL	F3R112	1F3	2001/4/3	3/11/2011	3629	9.94	39297
1FPPOOL	F3R113	1F3	2001/4/3	3/11/2011	3629	9.94	37443
1FPPOOL	F3R114	1F3	2001/4/3	3/11/2011	3629	9.94	37403
1FPPOOL	F3R115	1F3	2001/4/3	3/11/2011	3629	9.94	37450
1FPPOOL	F3R116	1F3	2001/4/3	3/11/2011	3629	9.94	37402
1FPPOOL	F3R117	1F3	2001/4/3	3/11/2011	3629	9.94	37354
1FPPOOL	F3R118	1F3	2001/4/3	3/11/2011	3629	9.94	37398
1FPPOOL	F3R119	1F3	2001/4/3	3/11/2011	3629	9.94	37361
1FPPOOL	F3R120	1F3	2001/4/3	3/11/2011	3629	9.94	37390
1FPPOOL	F3R141	1F3	2001/4/3	3/11/2011	3629	9.94	37488
1FPPOOL	F3R142	1F3	2001/4/3	3/11/2011	3629	9.94	37514
1FPPOOL	F3R143	1F3	2001/4/3	3/11/2011	3629	9.94	37503
1FPPOOL	F3R144	1F3	2001/4/3	3/11/2011	3629	9.94	37515
1FPPOOL	F3R153	1F3	2001/4/3	3/11/2011	3629	9.94	37056
1FPPOOL	F3R154	1F3	2001/4/3	3/11/2011	3629	9.94	37077
1FPPOOL	F3R155	1F3	2001/4/3	3/11/2011	3629	9.94	37050
1FPPOOL	F3R156	1F3	2001/4/3	3/11/2011	3629	9.94	37074
1FPPOOL	F3R157	1F3	2001/4/3	3/11/2011	3629	9.94	36833
1FPPOOL	F3R158	1F3	2001/4/3	3/11/2011	3629	9.94	36938
1FPPOOL	F3R159	1F3	2001/4/3	3/11/2011	3629	9.94	36821
1FPPOOL	F3R160	1F3	2001/4/3	3/11/2011	3629	9.94	36914
1FPPOOL	F3R161	1F3	2001/4/3	3/11/2011	3629	9.94	36943
1FPPOOL	F3R162	1F3	2001/4/3	3/11/2011	3629	9.94	36847
1FPPOOL	F3R163	1F3	2001/4/3	3/11/2011	3629	9.94	36946

1FPPOOL	F3R164	1F3	2001/4/3	3/11/2011	3629	9.94	36839
1FPPOOL	F3R165	1F3	2001/4/3	3/11/2011	3629	9.94	37137
1FPPOOL	F3R166	1F3	2001/4/3	3/11/2011	3629	9.94	36951
1FPPOOL	F3R167	1F3	2001/4/3	3/11/2011	3629	9.94	37134
1FPPOOL	F3R168	1F3	2001/4/3	3/11/2011	3629	9.94	36958
1FPPOOL	F3R17	1F3	2001/4/3	3/11/2011	3629	9.94	36865
1FPPOOL	F3R18	1F3	2001/4/3	3/11/2011	3629	9.94	36689
1FPPOOL	F3R19	1F3	2001/4/3	3/11/2011	3629	9.94	36864
1FPPOOL	F3R2	1F3	2001/4/3	3/11/2011	3629	9.94	40279
1FPPOOL	F3R20	1F3	2001/4/3	3/11/2011	3629	9.94	36675
1FPPOOL	F3R27	1F3	2001/4/3	3/11/2011	3629	9.94	41638
1FPPOOL	F3R28	1F3	2001/4/3	3/11/2011	3629	9.94	41653
1FPPOOL	F3R29	1F3	2001/4/3	3/11/2011	3629	9.94	40733
1FPPOOL	F3R3	1F3	2001/4/3	3/11/2011	3629	9.94	40326
1FPPOOL	F3R30	1F3	2001/4/3	3/11/2011	3629	9.94	40738
1FPPOOL	F3R31	1F3	2001/4/3	3/11/2011	3629	9.94	40743
1FPPOOL	F3R32	1F3	2001/4/3	3/11/2011	3629	9.94	40741
1FPPOOL	F3R33	1F3	2001/4/3	3/11/2011	3629	9.94	40644
1FPPOOL	F3R34	1F3	2001/4/3	3/11/2011	3629	9.94	40566
1FPPOOL	F3R35	1F3	2001/4/3	3/11/2011	3629	9.94	40630
1FPPOOL	F3R36	1F3	2001/4/3	3/11/2011	3629	9.94	40571
1FPPOOL	F3R37	1F3	2001/4/3	3/11/2011	3629	9.94	36109
1FPPOOL	F3R38	1F3	2001/4/3	3/11/2011	3629	9.94	36094
1FPPOOL	F3R39	1F3	2001/4/3	3/11/2011	3629	9.94	36095
1FPPOOL	F3R4	1F3	2001/4/3	3/11/2011	3629	9.94	40284
1FPPOOL	F3R40	1F3	2001/4/3	3/11/2011	3629	9.94	36102
1FPPOOL	F3R41	1F3	2001/4/3	3/11/2011	3629	9.94	37170
1FPPOOL	F3R42	1F3	2001/4/3	3/11/2011	3629	9.94	37151
1FPPOOL	F3R43	1F3	2001/4/3	3/11/2011	3629	9.94	37171
1FPPOOL	F3R44	1F3	2001/4/3	3/11/2011	3629	9.94	37194
1FPPOOL	F3R53	1F3	2001/4/3	3/11/2011	3629	9.94	36911
1FPPOOL	F3R54	1F3	2001/4/3	3/11/2011	3629	9.94	37115
1FPPOOL	F3R55	1F3	2001/4/3	3/11/2011	3629	9.94	36905
1FPPOOL	F3R56	1F3	2001/4/3	3/11/2011	3629	9.94	37120
1FPPOOL	F3R57	1F3	2001/4/3	3/11/2011	3629	9.94	37205
1FPPOOL	F3R58	1F3	2001/4/3	3/11/2011	3629	9.94	37145
1FPPOOL	F3R59	1F3	2001/4/3	3/11/2011	3629	9.94	37193
1FPPOOL	F3R60	1F3	2001/4/3	3/11/2011	3629	9.94	37154
1FPPOOL	F3R65	1F3	2001/4/3	3/11/2011	3629	9.94	41281
1FPPOOL	F3R66	1F3	2001/4/3	3/11/2011	3629	9.94	41227
1FPPOOL	F3R67	1F3	2001/4/3	3/11/2011	3629	9.94	41270
1FPPOOL	F3R68	1F3	2001/4/3	3/11/2011	3629	9.94	41223
1FPPOOL	F3R69	1F3	2001/4/3	3/11/2011	3629	9.94	36116
1FPPOOL	F3R70	1F3	2001/4/3	3/11/2011	3629	9.94	36097
1FPPOOL	F3R71	1F3	2001/4/3	3/11/2011	3629	9.94	36105
1FPPOOL	F3R72	1F3	2001/4/3	3/11/2011	3629	9.94	36093
1FPPOOL	F3R73	1F3	2001/4/3	3/11/2011	3629	9.94	36204
1FPPOOL	F3R74	1F3	2001/4/3	3/11/2011	3629	9.94	36227
1FPPOOL	F3R75	1F3	2001/4/3	3/11/2011	3629	9.94	36202
1FPPOOL	F3R76	1F3	2001/4/3	3/11/2011	3629	9.94	36225
1FPPOOL	F3R81	1F3	2001/4/3	3/11/2011	3629	9.94	36804
1FPPOOL	F3R82	1F3	2001/4/3	3/11/2011	3629	9.94	36883
1FPPOOL	F3R83	1F3	2001/4/3	3/11/2011	3629	9.94	36795

1FPPOOL	F3R84	1F3	2001/4/3	3/11/2011	3629	9.94	36880
1FPPOOL	F3R85	1F3	2001/4/3	3/11/2011	3629	9.94	39739
1FPPOOL	F3R86	1F3	2001/4/3	3/11/2011	3629	9.94	39771
1FPPOOL	F3R87	1F3	2001/4/3	3/11/2011	3629	9.94	39730
1FPPOOL	F3R88	1F3	2001/4/3	3/11/2011	3629	9.94	39777
1FPPOOL	F3R89	1F3	2001/4/3	3/11/2011	3629	9.94	36415
1FPPOOL	F3R90	1F3	2001/4/3	3/11/2011	3629	9.94	36416
1FPPOOL	F3R91	1F3	2001/4/3	3/11/2011	3629	9.94	36400
1FPPOOL	F3R92	1F3	2001/4/3	3/11/2011	3629	9.94	36418
1FPPOOL	F3R93	1F3	2001/4/3	3/11/2011	3629	9.94	36364
1FPPOOL	F3R94	1F3	2001/4/3	3/11/2011	3629	9.94	36351
1FPPOOL	F3R95	1F3	2001/4/3	3/11/2011	3629	9.94	36358
1FPPOOL	F3R96	1F3	2001/4/3	3/11/2011	3629	9.94	36352
1FPPOOL	F3R97	1F3	2001/4/3	3/11/2011	3629	9.94	39680
1FPPOOL	F3R98	1F3	2001/4/3	3/11/2011	3629	9.94	39688
1FPPOOL	F3R99	1F3	2001/4/3	3/11/2011	3629	9.94	39702
1FPPOOL	F3S17	1F3	2001/4/3	3/11/2011	3629	9.94	38722
1FPPOOL	F3S18	1F3	2001/4/3	3/11/2011	3629	9.94	38749
1FPPOOL	F3S19	1F3	2001/4/3	3/11/2011	3629	9.94	38723
1FPPOOL	F3S20	1F3	2001/4/3	3/11/2011	3629	9.94	38742
1FPPOOL	F3S33	1F3	2001/4/3	3/11/2011	3629	9.94	37329
1FPPOOL	F3S34	1F3	2001/4/3	3/11/2011	3629	9.94	37343
1FPPOOL	F3S35	1F3	2001/4/3	3/11/2011	3629	9.94	37324
1FPPOOL	F3S36	1F3	2001/4/3	3/11/2011	3629	9.94	37341
1FPPOOL	F3S37	1F3	2001/4/3	3/11/2011	3629	9.94	37290
1FPPOOL	F3S38	1F3	2001/4/3	3/11/2011	3629	9.94	37299
1FPPOOL	F3S39	1F3	2001/4/3	3/11/2011	3629	9.94	37273
1FPPOOL	F3S40	1F3	2001/4/3	3/11/2011	3629	9.94	37281
1FPPOOL	F3R107	1F3	2001/4/3	3/11/2011	3629	9.94	39127
1FPPOOL	F3R1	1F3	2001/4/3	3/11/2011	3629	9.94	40271
1FPPOOL	F3R100	1F3	2001/4/3	3/11/2011	3629	9.94	39711
1FPPOOL	F3R101	1F3	2001/4/3	3/11/2011	3629	9.94	39201
1FPPOOL	F3R102	1F3	2001/4/3	3/11/2011	3629	9.94	39207
1FPPOOL	F3R103	1F3	2001/4/3	3/11/2011	3629	9.94	39182
1FPPOOL	F3R104	1F3	2001/4/3	3/11/2011	3629	9.94	39191
1FPPOOL	F3R105	1F3	2001/4/3	3/11/2011	3629	9.94	39121
1FPPOOL	F3R106	1F3	2001/4/3	3/11/2011	3629	9.94	39146
1FPPOOL	F3S77	1F3	2001/4/3	3/11/2011	3629	9.94	37384
1FPPOOL	F3S78	1F3	2001/4/3	3/11/2011	3629	9.94	37342
1FPPOOL	F3S79	1F3	2001/4/3	3/11/2011	3629	9.94	37382
1FPPOOL	F3S80	1F3	2001/4/3	3/11/2011	3629	9.94	37342
1FPPOOL	F2RN19	1F2	2001/12/2	3/11/2011	3386	9.28	44961
1FPPOOL	F2RN2	1F2	2001/12/2	3/11/2011	3386	9.28	44839
1FPPOOL	F2RN20	1F2	2001/12/2	3/11/2011	3386	9.28	41774
1FPPOOL	F2RN21	1F2	2001/12/2	3/11/2011	3386	9.28	39198
1FPPOOL	F2RN23	1F2	2001/12/2	3/11/2011	3386	9.28	41609
1FPPOOL	F2RN24	1F2	2001/12/2	3/11/2011	3386	9.28	37942
1FPPOOL	F2RN25	1F2	2001/12/2	3/11/2011	3386	9.28	41672
1FPPOOL	F2RN26	1F2	2001/12/2	3/11/2011	3386	9.28	44904
1FPPOOL	F2RN27	1F2	2001/12/2	3/11/2011	3386	9.28	36250
1FPPOOL	F2RN28	1F2	2001/12/2	3/11/2011	3386	9.28	41516
1FPPOOL	F2RN29	1F2	2001/12/2	3/11/2011	3386	9.28	41461
1FPPOOL	F2RN32	1F2	2001/12/2	3/11/2011	3386	9.28	41358

1FPPOOL	F2RN33	1F2	2001/12/2	3/11/2011	3386	9.28	41615
1FPPOOL	F2RN34	1F2	2001/12/2	3/11/2011	3386	9.28	36190
1FPPOOL	F2RN35	1F2	2001/12/2	3/11/2011	3386	9.28	44995
1FPPOOL	F2RN36	1F2	2001/12/2	3/11/2011	3386	9.28	41642
1FPPOOL	F2RN38	1F2	2001/12/2	3/11/2011	3386	9.28	41718
1FPPOOL	F2RN39	1F2	2001/12/2	3/11/2011	3386	9.28	41343
1FPPOOL	F2RN40	1F2	2001/12/2	3/11/2011	3386	9.28	39170
1FPPOOL	F2RN41	1F2	2001/12/2	3/11/2011	3386	9.28	41796
1FPPOOL	F2RN42	1F2	2001/12/2	3/11/2011	3386	9.28	44866
1FPPOOL	F2RN44	1F2	2001/12/2	3/11/2011	3386	9.28	42124
1FPPOOL	F2RN45	1F2	2001/12/2	3/11/2011	3386	9.28	41643
1FPPOOL	F2RN46	1F2	2001/12/2	3/11/2011	3386	9.28	41467
1FPPOOL	F2RN47	1F2	2001/12/2	3/11/2011	3386	9.28	41902
1FPPOOL	F2RN48	1F2	2001/12/2	3/11/2011	3386	9.28	37477
1FPPOOL	F2RN49	1F2	2001/12/2	3/11/2011	3386	9.28	39349
1FPPOOL	F2RN51	1F2	2001/12/2	3/11/2011	3386	9.28	41799
1FPPOOL	F2RN52	1F2	2001/12/2	3/11/2011	3386	9.28	42068
1FPPOOL	F2RN53	1F2	2001/12/2	3/11/2011	3386	9.28	41873
1FPPOOL	F2RN54	1F2	2001/12/2	3/11/2011	3386	9.28	41668
1FPPOOL	F2RN59	1F2	2001/12/2	3/11/2011	3386	9.28	45040
1FPPOOL	F2RN60	1F2	2001/12/2	3/11/2011	3386	9.28	44987
1FPPOOL	F2RN7	1F2	2001/12/2	3/11/2011	3386	9.28	41721
1FPPOOL	F2RN8	1F2	2001/12/2	3/11/2011	3386	9.28	41843
1FPPOOL	F2RN9	1F2	2001/12/2	3/11/2011	3386	9.28	42132
1FPPOOL	F2RN10	1F2	2001/12/2	3/11/2011	3386	9.28	41917
1FPPOOL	F2RN12	1F2	2001/12/2	3/11/2011	3386	9.28	39272
1FPPOOL	F2RN14	1F2	2001/12/2	3/11/2011	3386	9.28	41933
1FPPOOL	F2RN15	1F2	2001/12/2	3/11/2011	3386	9.28	41526
1FPPOOL	F2RN16	1F2	2001/12/2	3/11/2011	3386	9.28	41605
1FPPOOL	F2P75	1F2	2001/12/2	3/11/2011	3386	9.28	41429
1FPPOOL	F2P76	1F2	2001/12/2	3/11/2011	3386	9.28	42024
1FPPOOL	F2P77	1F2	2001/12/2	3/11/2011	3386	9.28	42180
1FPPOOL	F2P78	1F2	2001/12/2	3/11/2011	3386	9.28	41470
1FPPOOL	F2P81	1F2	2001/12/2	3/11/2011	3386	9.28	36801
1FPPOOL	F2P58	1F2	2001/12/2	3/11/2011	3386	9.28	36942
1FPPOOL	F2P63	1F2	2001/12/2	3/11/2011	3386	9.28	41530
1FPPOOL	F2P64	1F2	2001/12/2	3/11/2011	3386	9.28	42100
1FPPOOL	F2P65	1F2	2001/12/2	3/11/2011	3386	9.28	41968
1FPPOOL	F2P66	1F2	2001/12/2	3/11/2011	3386	9.28	41406
1FPPOOL	F2P67	1F2	2001/12/2	3/11/2011	3386	9.28	37184
1FPPOOL	F2P69	1F2	2001/12/2	3/11/2011	3386	9.28	37021
1FPPOOL	F2P70	1F2	2001/12/2	3/11/2011	3386	9.28	37480
1FPPOOL	F2P74	1F2	2001/12/2	3/11/2011	3386	9.28	37052
1FPPOOL	F2P83	1F2	2001/12/2	3/11/2011	3386	9.28	37064
1FPPOOL	F2PN25	1F2	2001/12/2	3/11/2011	3386	9.28	41799
1FPPOOL	F2PN26	1F2	2001/12/2	3/11/2011	3386	9.28	41408
1FPPOOL	F2PN27	1F2	2001/12/2	3/11/2011	3386	9.28	41606
1FPPOOL	F2PN28	1F2	2001/12/2	3/11/2011	3386	9.28	41839
1FPPOOL	F2R11	1F2	2001/12/2	3/11/2011	3386	9.28	37358
1FPPOOL	F2R12	1F2	2001/12/2	3/11/2011	3386	9.28	37480
1FPPOOL	F2R15	1F2	2001/12/2	3/11/2011	3386	9.28	37398
1FPPOOL	F2R16	1F2	2001/12/2	3/11/2011	3386	9.28	37333
1FPPOOL	F2R17	1F2	2001/12/2	3/11/2011	3386	9.28	39122

1FPPOOL	F2R18	1F2	2001/12/2	3/11/2011	3386	9.28	38874
1FPPOOL	F2R19	1F2	2001/12/2	3/11/2011	3386	9.28	44732
1FPPOOL	F2R2	1F2	2001/12/2	3/11/2011	3386	9.28	37183
1FPPOOL	F2R20	1F2	2001/12/2	3/11/2011	3386	9.28	38914
1FPPOOL	F2R21	1F2	2001/12/2	3/11/2011	3386	9.28	37961
1FPPOOL	F2R23	1F2	2001/12/2	3/11/2011	3386	9.28	39212
1FPPOOL	F2R25	1F2	2001/12/2	3/11/2011	3386	9.28	37138
1FPPOOL	F2R26	1F2	2001/12/2	3/11/2011	3386	9.28	39140
1FPPOOL	F2R29	1F2	2001/12/2	3/11/2011	3386	9.28	38863
1FPPOOL	F2R3	1F2	2001/12/2	3/11/2011	3386	9.28	38975
1FPPOOL	F2R30	1F2	2001/12/2	3/11/2011	3386	9.28	44750
1FPPOOL	F2R31	1F2	2001/12/2	3/11/2011	3386	9.28	38942
1FPPOOL	F2R32	1F2	2001/12/2	3/11/2011	3386	9.28	39110
1FPPOOL	F2R33	1F2	2001/12/2	3/11/2011	3386	9.28	37377
1FPPOOL	F2R34	1F2	2001/12/2	3/11/2011	3386	9.28	37465
1FPPOOL	F2R38	1F2	2001/12/2	3/11/2011	3386	9.28	37292
1FPPOOL	F2R40	1F2	2001/12/2	3/11/2011	3386	9.28	39401
1FPPOOL	F2R41	1F2	2001/12/2	3/11/2011	3386	9.28	38816
1FPPOOL	F2R43	1F2	2001/12/2	3/11/2011	3386	9.28	44898
1FPPOOL	F2R44	1F2	2001/12/2	3/11/2011	3386	9.28	38890
1FPPOOL	F2R46	1F2	2001/12/2	3/11/2011	3386	9.28	39229
1FPPOOL	F2R47	1F2	2001/12/2	3/11/2011	3386	9.28	37205
1FPPOOL	F2R5	1F2	2001/12/2	3/11/2011	3386	9.28	38928
1FPPOOL	F2R6	1F2	2001/12/2	3/11/2011	3386	9.28	44741
1FPPOOL	F2R8	1F2	2001/12/2	3/11/2011	3386	9.28	38840
1FPPOOL	F2R9	1F2	2001/12/2	3/11/2011	3386	9.28	39186
1FPPOOL	F2RN1	1F2	2001/12/2	3/11/2011	3386	9.28	45052
1FPPOOL	F2RN17	1F2	2001/12/2	3/11/2011	3386	9.28	42157
1FPPOOL	F2RN18	1F2	2001/12/2	3/11/2011	3386	9.28	38163
1FPPOOL	F2RN22	1F2	2001/12/2	3/11/2011	3386	9.28	41209
1FPPOOL	F3S23	1F3	2002/7/18	3/11/2011	3158	8.65	39297
1FPPOOL	F3S24	1F3	2002/7/18	3/11/2011	3158	8.65	39269
1FPPOOL	F3S25	1F3	2002/7/18	3/11/2011	3158	8.65	44941
1FPPOOL	F3S26	1F3	2002/7/18	3/11/2011	3158	8.65	44941
1FPPOOL	F3S3	1F3	2002/7/18	3/11/2011	3158	8.65	45076
1FPPOOL	F3S30	1F3	2002/7/18	3/11/2011	3158	8.65	44781
1FPPOOL	F3S31	1F3	2002/7/18	3/11/2011	3158	8.65	44768
1FPPOOL	F3S32	1F3	2002/7/18	3/11/2011	3158	8.65	44782
1FPPOOL	F3S4	1F3	2002/7/18	3/11/2011	3158	8.65	44943
1FPPOOL	F3T107	1F3	2002/7/18	3/11/2011	3158	8.65	35657
1FPPOOL	F3T108	1F3	2002/7/18	3/11/2011	3158	8.65	35626
1FPPOOL	F3T109	1F3	2002/7/18	3/11/2011	3158	8.65	36609
1FPPOOL	F3S44	1F3	2002/7/18	3/11/2011	3158	8.65	44278
1FPPOOL	F3S45	1F3	2002/7/18	3/11/2011	3158	8.65	39366
1FPPOOL	F3S46	1F3	2002/7/18	3/11/2011	3158	8.65	39417
1FPPOOL	F3S47	1F3	2002/7/18	3/11/2011	3158	8.65	39392
1FPPOOL	F3S48	1F3	2002/7/18	3/11/2011	3158	8.65	39407
1FPPOOL	F3S49	1F3	2002/7/18	3/11/2011	3158	8.65	39348
1FPPOOL	F3S5	1F3	2002/7/18	3/11/2011	3158	8.65	44990
1FPPOOL	F3S50	1F3	2002/7/18	3/11/2011	3158	8.65	39321
1FPPOOL	F3S51	1F3	2002/7/18	3/11/2011	3158	8.65	39327
1FPPOOL	F3S52	1F3	2002/7/18	3/11/2011	3158	8.65	39320
1FPPOOL	F3S53	1F3	2002/7/18	3/11/2011	3158	8.65	39026

1FPPOOL	F3S54	1F3	2002/7/18	3/11/2011	3158	8.65	39031
1FPPOOL	F3S55	1F3	2002/7/18	3/11/2011	3158	8.65	39011
1FPPOOL	F3S56	1F3	2002/7/18	3/11/2011	3158	8.65	39028
1FPPOOL	F3S57	1F3	2002/7/18	3/11/2011	3158	8.65	40230
1FPPOOL	F3S58	1F3	2002/7/18	3/11/2011	3158	8.65	40166
1FPPOOL	F3S59	1F3	2002/7/18	3/11/2011	3158	8.65	40222
1FPPOOL	F3S6	1F3	2002/7/18	3/11/2011	3158	8.65	45121
1FPPOOL	F3S60	1F3	2002/7/18	3/11/2011	3158	8.65	40163
1FPPOOL	F3S61	1F3	2002/7/18	3/11/2011	3158	8.65	39521
1FPPOOL	F3S62	1F3	2002/7/18	3/11/2011	3158	8.65	39529
1FPPOOL	F3S63	1F3	2002/7/18	3/11/2011	3158	8.65	39504
1FPPOOL	F3S64	1F3	2002/7/18	3/11/2011	3158	8.65	39528
1FPPOOL	F3S65	1F3	2002/7/18	3/11/2011	3158	8.65	38868
1FPPOOL	F3S66	1F3	2002/7/18	3/11/2011	3158	8.65	38880
1FPPOOL	F3S67	1F3	2002/7/18	3/11/2011	3158	8.65	38896
1FPPOOL	F3S68	1F3	2002/7/18	3/11/2011	3158	8.65	38892
1FPPOOL	F3S69	1F3	2002/7/18	3/11/2011	3158	8.65	38925
1FPPOOL	F3S7	1F3	2002/7/18	3/11/2011	3158	8.65	44990
1FPPOOL	F3S70	1F3	2002/7/18	3/11/2011	3158	8.65	38948
1FPPOOL	F3S71	1F3	2002/7/18	3/11/2011	3158	8.65	38953
1FPPOOL	F3S72	1F3	2002/7/18	3/11/2011	3158	8.65	38954
1FPPOOL	F3S73	1F3	2002/7/18	3/11/2011	3158	8.65	44366
1FPPOOL	F3S74	1F3	2002/7/18	3/11/2011	3158	8.65	44463
1FPPOOL	F3S75	1F3	2002/7/18	3/11/2011	3158	8.65	44372
1FPPOOL	F3S76	1F3	2002/7/18	3/11/2011	3158	8.65	44453
1FPPOOL	F3S8	1F3	2002/7/18	3/11/2011	3158	8.65	45114
1FPPOOL	F3S81	1F3	2002/7/18	3/11/2011	3158	8.65	39876
1FPPOOL	F3S82	1F3	2002/7/18	3/11/2011	3158	8.65	39866
1FPPOOL	F3S83	1F3	2002/7/18	3/11/2011	3158	8.65	39857
1FPPOOL	F3S84	1F3	2002/7/18	3/11/2011	3158	8.65	39879
1FPPOOL	F3S85	1F3	2002/7/18	3/11/2011	3158	8.65	39062
1FPPOOL	F3S86	1F3	2002/7/18	3/11/2011	3158	8.65	39017
1FPPOOL	F3S87	1F3	2002/7/18	3/11/2011	3158	8.65	39062
1FPPOOL	F3S88	1F3	2002/7/18	3/11/2011	3158	8.65	39029
1FPPOOL	F3S89	1F3	2002/7/18	3/11/2011	3158	8.65	42760
1FPPOOL	F3S9	1F3	2002/7/18	3/11/2011	3158	8.65	43038
1FPPOOL	F3S90	1F3	2002/7/18	3/11/2011	3158	8.65	42711
1FPPOOL	F3S91	1F3	2002/7/18	3/11/2011	3158	8.65	42778
1FPPOOL	F3S92	1F3	2002/7/18	3/11/2011	3158	8.65	42734
1FPPOOL	F3S93	1F3	2002/7/18	3/11/2011	3158	8.65	38857
1FPPOOL	F3S94	1F3	2002/7/18	3/11/2011	3158	8.65	38896
1FPPOOL	F3S95	1F3	2002/7/18	3/11/2011	3158	8.65	38840
1FPPOOL	F3S96	1F3	2002/7/18	3/11/2011	3158	8.65	38927
1FPPOOL	F3S97	1F3	2002/7/18	3/11/2011	3158	8.65	35591
1FPPOOL	F3S98	1F3	2002/7/18	3/11/2011	3158	8.65	35578
1FPPOOL	F3S99	1F3	2002/7/18	3/11/2011	3158	8.65	35575
1FPPOOL	F3T105	1F3	2002/7/18	3/11/2011	3158	8.65	35653
1FPPOOL	F3T106	1F3	2002/7/18	3/11/2011	3158	8.65	35652
1FPPOOL	F3T110	1F3	2002/7/18	3/11/2011	3158	8.65	36659
1FPPOOL	F3T111	1F3	2002/7/18	3/11/2011	3158	8.65	36616
1FPPOOL	F3T112	1F3	2002/7/18	3/11/2011	3158	8.65	36655
1FPPOOL	F3T35	1F3	2002/7/18	3/11/2011	3158	8.65	36594
1FPPOOL	F3T36	1F3	2002/7/18	3/11/2011	3158	8.65	36580

1FPPOOL	F3T33	1F3	2002/7/18	3/11/2011	3158	8.65	36593
1FPPOOL	F3T34	1F3	2002/7/18	3/11/2011	3158	8.65	36586
1FPPOOL	F6M101	1F6	2002/4/7	3/11/2011	3260	8.93	40280
1FPPOOL	F6M106	1F6	2002/4/7	3/11/2011	3260	8.93	40711
1FPPOOL	F6M133	1F6	2002/4/7	3/11/2011	3260	8.93	43748
1FPPOOL	F6M134	1F6	2002/4/7	3/11/2011	3260	8.93	43784
1FPPOOL	F6M135	1F6	2002/4/7	3/11/2011	3260	8.93	43373
1FPPOOL	F6M136	1F6	2002/4/7	3/11/2011	3260	8.93	43598
1FPPOOL	F6M137	1F6	2002/4/7	3/11/2011	3260	8.93	37757
1FPPOOL	F6M138	1F6	2002/4/7	3/11/2011	3260	8.93	37885
1FPPOOL	F6M139	1F6	2002/4/7	3/11/2011	3260	8.93	37666
1FPPOOL	F6M140	1F6	2002/4/7	3/11/2011	3260	8.93	37885
1FPPOOL	F6M141	1F6	2002/4/7	3/11/2011	3260	8.93	41077
1FPPOOL	F6M142	1F6	2002/4/7	3/11/2011	3260	8.93	41183
1FPPOOL	F6M143	1F6	2002/4/7	3/11/2011	3260	8.93	41295
1FPPOOL	F6M144	1F6	2002/4/7	3/11/2011	3260	8.93	40978
1FPPOOL	F6M145	1F6	2002/4/7	3/11/2011	3260	8.93	40616
1FPPOOL	F6M146	1F6	2002/4/7	3/11/2011	3260	8.93	40912
1FPPOOL	F6M147	1F6	2002/4/7	3/11/2011	3260	8.93	39781
1FPPOOL	F6M148	1F6	2002/4/7	3/11/2011	3260	8.93	40883
1FPPOOL	F6M23	1F6	2002/4/7	3/11/2011	3260	8.93	39980
1FPPOOL	F6M28	1F6	2002/4/7	3/11/2011	3260	8.93	40083
1FPPOOL	F6M32	1F6	2002/4/7	3/11/2011	3260	8.93	44732
1FPPOOL	F6M33	1F6	2002/4/7	3/11/2011	3260	8.93	44683
1FPPOOL	F6M37	1F6	2002/4/7	3/11/2011	3260	8.93	44716
1FPPOOL	F6M40	1F6	2002/4/7	3/11/2011	3260	8.93	44870
1FPPOOL	F6M89	1F6	2002/4/7	3/11/2011	3260	8.93	44681
1FPPOOL	F6M92	1F6	2002/4/7	3/11/2011	3260	8.93	45290
1FPPOOL	F6M96	1F6	2002/4/7	3/11/2011	3260	8.93	44631
1FPPOOL	F6M97	1F6	2002/4/7	3/11/2011	3260	8.93	45305
1FPPOOL	F6N1	1F6	2002/4/7	3/11/2011	3260	8.93	38379
1FPPOOL	F6N10	1F6	2002/4/7	3/11/2011	3260	8.93	38810
1FPPOOL	F6N101	1F6	2002/4/7	3/11/2011	3260	8.93	39382
1FPPOOL	F6N105	1F6	2002/4/7	3/11/2011	3260	8.93	37642
1FPPOOL	F6N106	1F6	2002/4/7	3/11/2011	3260	8.93	38051
1FPPOOL	F6N107	1F6	2002/4/7	3/11/2011	3260	8.93	37462
1FPPOOL	F6N108	1F6	2002/4/7	3/11/2011	3260	8.93	37759
1FPPOOL	F6N109	1F6	2002/4/7	3/11/2011	3260	8.93	37501
1FPPOOL	F6N11	1F6	2002/4/7	3/11/2011	3260	8.93	38654
1FPPOOL	F6N110	1F6	2002/4/7	3/11/2011	3260	8.93	38208
1FPPOOL	F6N111	1F6	2002/4/7	3/11/2011	3260	8.93	37865
1FPPOOL	F6N112	1F6	2002/4/7	3/11/2011	3260	8.93	37786
1FPPOOL	F6N181	1F6	2002/4/7	3/11/2011	3260	8.93	43456
1FPPOOL	F6N187	1F6	2002/4/7	3/11/2011	3260	8.93	39932
1FPPOOL	F6N188	1F6	2002/4/7	3/11/2011	3260	8.93	40443
1FPPOOL	F6N189	1F6	2002/4/7	3/11/2011	3260	8.93	42690
1FPPOOL	F6N190	1F6	2002/4/7	3/11/2011	3260	8.93	43125
1FPPOOL	F6N191	1F6	2002/4/7	3/11/2011	3260	8.93	42752
1FPPOOL	F6N178	1F6	2002/4/7	3/11/2011	3260	8.93	45090
1FPPOOL	F6N179	1F6	2002/4/7	3/11/2011	3260	8.93	44111
1FPPOOL	F6N180	1F6	2002/4/7	3/11/2011	3260	8.93	44866
1FPPOOL	F6N182	1F6	2002/4/7	3/11/2011	3260	8.93	44191
1FPPOOL	F6N183	1F6	2002/4/7	3/11/2011	3260	8.93	43962

1FPPOOL	F6N184	1F6	2002/4/7	3/11/2011	3260	8.93	43600
1FPPOOL	F6N185	1F6	2002/4/7	3/11/2011	3260	8.93	39996
1FPPOOL	F6N186	1F6	2002/4/7	3/11/2011	3260	8.93	40572
1FPPOOL	F6N192	1F6	2002/4/7	3/11/2011	3260	8.93	42928
1FPPOOL	F6N193	1F6	2002/4/7	3/11/2011	3260	8.93	40146
1FPPOOL	F6N194	1F6	2002/4/7	3/11/2011	3260	8.93	41198
1FPPOOL	F6N195	1F6	2002/4/7	3/11/2011	3260	8.93	39888
1FPPOOL	F6N196	1F6	2002/4/7	3/11/2011	3260	8.93	40867
1FPPOOL	F6N197	1F6	2002/4/7	3/11/2011	3260	8.93	38531
1FPPOOL	F6N198	1F6	2002/4/7	3/11/2011	3260	8.93	39037
1FPPOOL	F6N199	1F6	2002/4/7	3/11/2011	3260	8.93	38601
1FPPOOL	F6N2	1F6	2002/4/7	3/11/2011	3260	8.93	38622
1FPPOOL	F6N200	1F6	2002/4/7	3/11/2011	3260	8.93	38770
1FPPOOL	F6N201	1F6	2002/4/7	3/11/2011	3260	8.93	38302
1FPPOOL	F6N202	1F6	2002/4/7	3/11/2011	3260	8.93	39072
1FPPOOL	F6N203	1F6	2002/4/7	3/11/2011	3260	8.93	38728
1FPPOOL	F6N204	1F6	2002/4/7	3/11/2011	3260	8.93	38913
1FPPOOL	F6N21	1F6	2002/4/7	3/11/2011	3260	8.93	38482
1FPPOOL	F6N22	1F6	2002/4/7	3/11/2011	3260	8.93	38445
1FPPOOL	F6N23	1F6	2002/4/7	3/11/2011	3260	8.93	38306
1FPPOOL	F6N24	1F6	2002/4/7	3/11/2011	3260	8.93	38398
1FPPOOL	F6N25	1F6	2002/4/7	3/11/2011	3260	8.93	37041
1FPPOOL	F6N26	1F6	2002/4/7	3/11/2011	3260	8.93	37293
1FPPOOL	F6N27	1F6	2002/4/7	3/11/2011	3260	8.93	37245
1FPPOOL	F6N28	1F6	2002/4/7	3/11/2011	3260	8.93	37160
1FPPOOL	F6N29	1F6	2002/4/7	3/11/2011	3260	8.93	38306
1FPPOOL	F6N3	1F6	2002/4/7	3/11/2011	3260	8.93	38351
1FPPOOL	F6N30	1F6	2002/4/7	3/11/2011	3260	8.93	38737
1FPPOOL	F6N31	1F6	2002/4/7	3/11/2011	3260	8.93	38500
1FPPOOL	F6N32	1F6	2002/4/7	3/11/2011	3260	8.93	38555
1FPPOOL	F6N33	1F6	2002/4/7	3/11/2011	3260	8.93	39148
1FPPOOL	F6N34	1F6	2002/4/7	3/11/2011	3260	8.93	39769
1FPPOOL	F6N35	1F6	2002/4/7	3/11/2011	3260	8.93	39206
1FPPOOL	F6N36	1F6	2002/4/7	3/11/2011	3260	8.93	39817
1FPPOOL	F6N37	1F6	2002/4/7	3/11/2011	3260	8.93	39007
1FPPOOL	F6N38	1F6	2002/4/7	3/11/2011	3260	8.93	39499
1FPPOOL	F6N39	1F6	2002/4/7	3/11/2011	3260	8.93	39406
1FPPOOL	F6N4	1F6	2002/4/7	3/11/2011	3260	8.93	38592
1FPPOOL	F6N40	1F6	2002/4/7	3/11/2011	3260	8.93	39641
1FPPOOL	F6N44	1F6	2002/4/7	3/11/2011	3260	8.93	45894
1FPPOOL	F6N47	1F6	2002/4/7	3/11/2011	3260	8.93	45242
1FPPOOL	F6N5	1F6	2002/4/7	3/11/2011	3260	8.93	43003
1FPPOOL	F6N57	1F6	2002/4/7	3/11/2011	3260	8.93	38104
1FPPOOL	F6N58	1F6	2002/4/7	3/11/2011	3260	8.93	38027
1FPPOOL	F6N59	1F6	2002/4/7	3/11/2011	3260	8.93	38360
1FPPOOL	F6N6	1F6	2002/4/7	3/11/2011	3260	8.93	43191
1FPPOOL	F6N60	1F6	2002/4/7	3/11/2011	3260	8.93	37950
1FPPOOL	F6N61	1F6	2002/4/7	3/11/2011	3260	8.93	38908
1FPPOOL	F6N62	1F6	2002/4/7	3/11/2011	3260	8.93	39309
1FPPOOL	F6N63	1F6	2002/4/7	3/11/2011	3260	8.93	39234
1FPPOOL	F6N64	1F6	2002/4/7	3/11/2011	3260	8.93	39211
1FPPOOL	F6N65	1F6	2002/4/7	3/11/2011	3260	8.93	38935
1FPPOOL	F6N66	1F6	2002/4/7	3/11/2011	3260	8.93	45519

1FPPOOL	F6N67	1F6	2002/4/7	3/11/2011	3260	8.93	39558
1FPPOOL	F6N68	1F6	2002/4/7	3/11/2011	3260	8.93	39004
1FPPOOL	F6N69	1F6	2002/4/7	3/11/2011	3260	8.93	38820
1FPPOOL	F6N118	1F6	2002/4/7	3/11/2011	3260	8.93	44941
1FPPOOL	F6N125	1F6	2002/4/7	3/11/2011	3260	8.93	40694
1FPPOOL	F6N126	1F6	2002/4/7	3/11/2011	3260	8.93	41548
1FPPOOL	F6N127	1F6	2002/4/7	3/11/2011	3260	8.93	40591
1FPPOOL	F6N128	1F6	2002/4/7	3/11/2011	3260	8.93	41422
1FPPOOL	F6N113	1F6	2002/4/7	3/11/2011	3260	8.93	45316
1FPPOOL	F6N114	1F6	2002/4/7	3/11/2011	3260	8.93	45279
1FPPOOL	F6N116	1F6	2002/4/7	3/11/2011	3260	8.93	45502
1FPPOOL	F6N117	1F6	2002/4/7	3/11/2011	3260	8.93	45949
1FPPOOL	F6N119	1F6	2002/4/7	3/11/2011	3260	8.93	46151
1FPPOOL	F6N12	1F6	2002/4/7	3/11/2011	3260	8.93	38754
1FPPOOL	F6N120	1F6	2002/4/7	3/11/2011	3260	8.93	45702
1FPPOOL	F6N122	1F6	2002/4/7	3/11/2011	3260	8.93	36985
1FPPOOL	F6N157	1F6	2002/4/7	3/11/2011	3260	8.93	38684
1FPPOOL	F6N158	1F6	2002/4/7	3/11/2011	3260	8.93	38448
1FPPOOL	F6N159	1F6	2002/4/7	3/11/2011	3260	8.93	38664
1FPPOOL	F6N160	1F6	2002/4/7	3/11/2011	3260	8.93	38369
1FPPOOL	F6N161	1F6	2002/4/7	3/11/2011	3260	8.93	38373
1FPPOOL	F6N162	1F6	2002/4/7	3/11/2011	3260	8.93	38111
1FPPOOL	F6N163	1F6	2002/4/7	3/11/2011	3260	8.93	38158
1FPPOOL	F6N164	1F6	2002/4/7	3/11/2011	3260	8.93	38357
1FPPOOL	F6N165	1F6	2002/4/7	3/11/2011	3260	8.93	44610
1FPPOOL	F6N166	1F6	2002/4/7	3/11/2011	3260	8.93	44929
1FPPOOL	F6N167	1F6	2002/4/7	3/11/2011	3260	8.93	44954
1FPPOOL	F6N168	1F6	2002/4/7	3/11/2011	3260	8.93	45263
1FPPOOL	F6N169	1F6	2002/4/7	3/11/2011	3260	8.93	45246
1FPPOOL	F6N170	1F6	2002/4/7	3/11/2011	3260	8.93	45303
1FPPOOL	F6N171	1F6	2002/4/7	3/11/2011	3260	8.93	45112
1FPPOOL	F6N172	1F6	2002/4/7	3/11/2011	3260	8.93	45585
1FPPOOL	F6N173	1F6	2002/4/7	3/11/2011	3260	8.93	44441
1FPPOOL	F6N174	1F6	2002/4/7	3/11/2011	3260	8.93	44802
1FPPOOL	F6N175	1F6	2002/4/7	3/11/2011	3260	8.93	44422
1FPPOOL	F6N176	1F6	2002/4/7	3/11/2011	3260	8.93	44665
1FPPOOL	F6N177	1F6	2002/4/7	3/11/2011	3260	8.93	44626
1FPPOOL	F1R26	1F1	2002/10/26	3/11/2011	3058	8.38	37010
1FPPOOL	F1R27	1F1	2002/10/26	3/11/2011	3058	8.38	36946
1FPPOOL	F1R28	1F1	2002/10/26	3/11/2011	3058	8.38	36876
1FPPOOL	F1R5	1F1	2002/10/26	3/11/2011	3058	8.38	38520
1FPPOOL	F1S18	1F1	2002/10/26	3/11/2011	3058	8.38	36875
1FPPOOL	F1S19	1F1	2002/10/26	3/11/2011	3058	8.38	36846
1FPPOOL	F6P25	1F6	2002/4/7	3/11/2011	3260	8.93	37229
1FPPOOL	F6P26	1F6	2002/4/7	3/11/2011	3260	8.93	37139
1FPPOOL	F6P27	1F6	2002/4/7	3/11/2011	3260	8.93	36895
1FPPOOL	F6P28	1F6	2002/4/7	3/11/2011	3260	8.93	37267
1FPPOOL	F6N72	1F6	2002/4/7	3/11/2011	3260	8.93	39374
1FPPOOL	F6N84	1F6	2002/4/7	3/11/2011	3260	8.93	46052
1FPPOOL	F6N85	1F6	2002/4/7	3/11/2011	3260	8.93	45368
1FPPOOL	F6N87	1F6	2002/4/7	3/11/2011	3260	8.93	45907
1FPPOOL	F6N88	1F6	2002/4/7	3/11/2011	3260	8.93	45804
1FPPOOL	F6N89	1F6	2002/4/7	3/11/2011	3260	8.93	45345

1FPPOOL	F6N9	1F6	2002/4/7	3/11/2011	3260	8.93	38640
1FPPOOL	F1R6	1F1	2002/10/26	3/11/2011	3058	8.38	38512
1FPPOOL	F1R7	1F1	2002/10/26	3/11/2011	3058	8.38	38508
1FPPOOL	F1R8	1F1	2002/10/26	3/11/2011	3058	8.38	38441
1FPPOOL	F1S13	1F1	2002/10/26	3/11/2011	3058	8.38	38772
1FPPOOL	F1S14	1F1	2002/10/26	3/11/2011	3058	8.38	38917
1FPPOOL	F1S15	1F1	2002/10/26	3/11/2011	3058	8.38	38800
1FPPOOL	F1S16	1F1	2002/10/26	3/11/2011	3058	8.38	38737
1FPPOOL	F1S17	1F1	2002/10/26	3/11/2011	3058	8.38	36928
1FPPOOL	F1S41	1F1	2002/10/26	3/11/2011	3058	8.38	39668
1FPPOOL	F1S42	1F1	2002/10/26	3/11/2011	3058	8.38	39668
1FPPOOL	F1S43	1F1	2002/10/26	3/11/2011	3058	8.38	39670
1FPPOOL	F1S44	1F1	2002/10/26	3/11/2011	3058	8.38	39628
1FPPOOL	F1SN1	1F1	2002/10/26	3/11/2011	3058	8.38	38589
1FPPOOL	F1SN10	1F1	2002/10/26	3/11/2011	3058	8.38	37441
1FPPOOL	F1SN11	1F1	2002/10/26	3/11/2011	3058	8.38	37216
1FPPOOL	F1SN12	1F1	2002/10/26	3/11/2011	3058	8.38	37217
1FPPOOL	F1SN13	1F1	2002/10/26	3/11/2011	3058	8.38	36850
1FPPOOL	F1SN14	1F1	2002/10/26	3/11/2011	3058	8.38	36945
1FPPOOL	F1SN15	1F1	2002/10/26	3/11/2011	3058	8.38	36899
1FPPOOL	F1SN2	1F1	2002/10/26	3/11/2011	3058	8.38	38725
1FPPOOL	F1SN21	1F1	2002/10/26	3/11/2011	3058	8.38	38613
1FPPOOL	F1SN22	1F1	2002/10/26	3/11/2011	3058	8.38	38765
1FPPOOL	F1SN23	1F1	2002/10/26	3/11/2011	3058	8.38	38777
1FPPOOL	F1SN24	1F1	2002/10/26	3/11/2011	3058	8.38	38653
1FPPOOL	F1SN3	1F1	2002/10/26	3/11/2011	3058	8.38	38649
1FPPOOL	F1SN34	1F1	2002/10/26	3/11/2011	3058	8.38	36871
1FPPOOL	F6N7	1F6	2002/4/7	3/11/2011	3260	8.93	43122
1FPPOOL	F6N70	1F6	2002/4/7	3/11/2011	3260	8.93	39333
1FPPOOL	F6N71	1F6	2002/4/7	3/11/2011	3260	8.93	39430
1FPPOOL	F6N76	1F6	2002/4/7	3/11/2011	3260	8.93	45952
1FPPOOL	F6N81	1F6	2002/4/7	3/11/2011	3260	8.93	45534
1FPPOOL	F6N83	1F6	2002/4/7	3/11/2011	3260	8.93	41236
1FPPOOL	F6N90	1F6	2002/4/7	3/11/2011	3260	8.93	46568
1FPPOOL	F6N91	1F6	2002/4/7	3/11/2011	3260	8.93	44600
1FPPOOL	F6N92	1F6	2002/4/7	3/11/2011	3260	8.93	46083
1FPPOOL	F6N93	1F6	2002/4/7	3/11/2011	3260	8.93	45332
1FPPOOL	F6N94	1F6	2002/4/7	3/11/2011	3260	8.93	46343
1FPPOOL	F6N95	1F6	2002/4/7	3/11/2011	3260	8.93	45654
1FPPOOL	F6N96	1F6	2002/4/7	3/11/2011	3260	8.93	46378
1FPPOOL	F6P10	1F6	2002/4/7	3/11/2011	3260	8.93	36580
1FPPOOL	F6P11	1F6	2002/4/7	3/11/2011	3260	8.93	36491
1FPPOOL	F6P12	1F6	2002/4/7	3/11/2011	3260	8.93	36831
1FPPOOL	F1SN4	1F1	2002/10/26	3/11/2011	3058	8.38	38551
1FPPOOL	F1SN9	1F1	2002/10/26	3/11/2011	3058	8.38	37225
1FPPOOL	F1T25	1F1	2002/10/26	3/11/2011	3058	8.38	37412
1FPPOOL	F1T26	1F1	2002/10/26	3/11/2011	3058	8.38	37386
1FPPOOL	F1T27	1F1	2002/10/26	3/11/2011	3058	8.38	37384
1FPPOOL	F1T28	1F1	2002/10/26	3/11/2011	3058	8.38	37386
1FPPOOL	F1T29	1F1	2002/10/26	3/11/2011	3058	8.38	39379
1FPPOOL	F1T30	1F1	2002/10/26	3/11/2011	3058	8.38	39441
1FPPOOL	F1T31	1F1	2002/10/26	3/11/2011	3058	8.38	39418
1FPPOOL	F1T32	1F1	2002/10/26	3/11/2011	3058	8.38	39498

1FPPOOL	F1T33	1F1	2002/10/26	3/11/2011	3058	8.38	39041
1FPPOOL	F1T34	1F1	2002/10/26	3/11/2011	3058	8.38	39067
1FPPOOL	F1T35	1F1	2002/10/26	3/11/2011	3058	8.38	39107
1FPPOOL	F1T36	1F1	2002/10/26	3/11/2011	3058	8.38	38960
1FPPOOL	F1T41	1F1	2002/10/26	3/11/2011	3058	8.38	38609
1FPPOOL	F1T42	1F1	2002/10/26	3/11/2011	3058	8.38	38645
1FPPOOL	F1T43	1F1	2002/10/26	3/11/2011	3058	8.38	38576
1FPPOOL	F1T44	1F1	2002/10/26	3/11/2011	3058	8.38	38546
1FPPOOL	F1T45	1F1	2002/10/26	3/11/2011	3058	8.38	38739
1FPPOOL	F1T46	1F1	2002/10/26	3/11/2011	3058	8.38	38677
1FPPOOL	F1T47	1F1	2002/10/26	3/11/2011	3058	8.38	38692
1FPPOOL	F1T48	1F1	2002/10/26	3/11/2011	3058	8.38	38678
1FPPOOL	F1T5	1F1	2002/10/26	3/11/2011	3058	8.38	37573
1FPPOOL	F1T6	1F1	2002/10/26	3/11/2011	3058	8.38	37639
1FPPOOL	F1T7	1F1	2002/10/26	3/11/2011	3058	8.38	37488
1FPPOOL	F1T8	1F1	2002/10/26	3/11/2011	3058	8.38	37572
1FPPOOL	F6P41	1F6	2002/4/7	3/11/2011	3260	8.93	36872
1FPPOOL	F6P42	1F6	2002/4/7	3/11/2011	3260	8.93	37511
1FPPOOL	F6P43	1F6	2002/4/7	3/11/2011	3260	8.93	36614
1FPPOOL	F6P44	1F6	2002/4/7	3/11/2011	3260	8.93	37257
1FPPOOL	F6P46	1F6	2002/4/7	3/11/2011	3260	8.93	37383
1FPPOOL	F6P47	1F6	2002/4/7	3/11/2011	3260	8.93	36868
1FPPOOL	F6P48	1F6	2002/4/7	3/11/2011	3260	8.93	36791
1FPPOOL	F6P73	1F6	2002/4/7	3/11/2011	3260	8.93	36601
1FPPOOL	F6P76	1F6	2002/4/7	3/11/2011	3260	8.93	36604
1FPPOOL	F6P82	1F6	2002/4/7	3/11/2011	3260	8.93	36616
1FPPOOL	F6P9	1F6	2002/4/7	3/11/2011	3260	8.93	36690
1FPPOOL	F3R121	1F3	2002/7/18	3/11/2011	3158	8.65	38879
1FPPOOL	F3R122	1F3	2002/7/18	3/11/2011	3158	8.65	38888
1FPPOOL	F3R123	1F3	2002/7/18	3/11/2011	3158	8.65	38863
1FPPOOL	F3R124	1F3	2002/7/18	3/11/2011	3158	8.65	38888
1FPPOOL	F3R125	1F3	2002/7/18	3/11/2011	3158	8.65	40432
1FPPOOL	F3R126	1F3	2002/7/18	3/11/2011	3158	8.65	40537
1FPPOOL	F3R127	1F3	2002/7/18	3/11/2011	3158	8.65	40420
1FPPOOL	F3R128	1F3	2002/7/18	3/11/2011	3158	8.65	40535
1FPPOOL	F3R129	1F3	2002/7/18	3/11/2011	3158	8.65	42876
1FPPOOL	F3R130	1F3	2002/7/18	3/11/2011	3158	8.65	42808
1FPPOOL	F3R131	1F3	2002/7/18	3/11/2011	3158	8.65	42878
1FPPOOL	F3R132	1F3	2002/7/18	3/11/2011	3158	8.65	42812
1FPPOOL	F3R133	1F3	2002/7/18	3/11/2011	3158	8.65	42962
1FPPOOL	F3R134	1F3	2002/7/18	3/11/2011	3158	8.65	43023
1FPPOOL	F3R135	1F3	2002/7/18	3/11/2011	3158	8.65	42963
1FPPOOL	F3R136	1F3	2002/7/18	3/11/2011	3158	8.65	43020
1FPPOOL	F3R137	1F3	2002/7/18	3/11/2011	3158	8.65	38987
1FPPOOL	F3R138	1F3	2002/7/18	3/11/2011	3158	8.65	39021
1FPPOOL	F3R139	1F3	2002/7/18	3/11/2011	3158	8.65	38993
1FPPOOL	F3R140	1F3	2002/7/18	3/11/2011	3158	8.65	39024
1FPPOOL	F3R145	1F3	2002/7/18	3/11/2011	3158	8.65	44252
1FPPOOL	F3R146	1F3	2002/7/18	3/11/2011	3158	8.65	44296
1FPPOOL	F3R147	1F3	2002/7/18	3/11/2011	3158	8.65	44260
1FPPOOL	F3R148	1F3	2002/7/18	3/11/2011	3158	8.65	44279
1FPPOOL	F3R149	1F3	2002/7/18	3/11/2011	3158	8.65	39234
1FPPOOL	F3R150	1F3	2002/7/18	3/11/2011	3158	8.65	39234

1FPPOOL	F3R151	1F3	2002/7/18	3/11/2011	3158	8.65	39219
1FPPOOL	F3R152	1F3	2002/7/18	3/11/2011	3158	8.65	39223
1FPPOOL	F3R21	1F3	2002/7/18	3/11/2011	3158	8.65	40265
1FPPOOL	F3R22	1F3	2002/7/18	3/11/2011	3158	8.65	40303
1FPPOOL	F3R23	1F3	2002/7/18	3/11/2011	3158	8.65	40251
1FPPOOL	F3R24	1F3	2002/7/18	3/11/2011	3158	8.65	40327
1FPPOOL	F3R61	1F3	2002/7/18	3/11/2011	3158	8.65	40397
1FPPOOL	F3R62	1F3	2002/7/18	3/11/2011	3158	8.65	40441
1FPPOOL	F3R63	1F3	2002/7/18	3/11/2011	3158	8.65	40404
1FPPOOL	F3R64	1F3	2002/7/18	3/11/2011	3158	8.65	40424
1FPPOOL	F3R77	1F3	2002/7/18	3/11/2011	3158	8.65	40685
1FPPOOL	F3R78	1F3	2002/7/18	3/11/2011	3158	8.65	40627
1FPPOOL	F3R79	1F3	2002/7/18	3/11/2011	3158	8.65	40686
1FPPOOL	F3R80	1F3	2002/7/18	3/11/2011	3158	8.65	40644
1FPPOOL	F3S1	1F3	2002/7/18	3/11/2011	3158	8.65	45080
1FPPOOL	F3S10	1F3	2002/7/18	3/11/2011	3158	8.65	42822
1FPPOOL	F3S100	1F3	2002/7/18	3/11/2011	3158	8.65	35571
1FPPOOL	F3S101	1F3	2002/7/18	3/11/2011	3158	8.65	35566
1FPPOOL	F3S102	1F3	2002/7/18	3/11/2011	3158	8.65	35594
1FPPOOL	F3S103	1F3	2002/7/18	3/11/2011	3158	8.65	35553
1FPPOOL	F3S104	1F3	2002/7/18	3/11/2011	3158	8.65	35577
1FPPOOL	F3S11	1F3	2002/7/18	3/11/2011	3158	8.65	43028
1FPPOOL	F3S12	1F3	2002/7/18	3/11/2011	3158	8.65	42818
1FPPOOL	F3S13	1F3	2002/7/18	3/11/2011	3158	8.65	42633
1FPPOOL	F3S14	1F3	2002/7/18	3/11/2011	3158	8.65	42851
1FPPOOL	F3S15	1F3	2002/7/18	3/11/2011	3158	8.65	42656
1FPPOOL	F3S16	1F3	2002/7/18	3/11/2011	3158	8.65	42862
1FPPOOL	F3S2	1F3	2002/7/18	3/11/2011	3158	8.65	44942
1FPPOOL	F3S21	1F3	2002/7/18	3/11/2011	3158	8.65	39311
1FPPOOL	F3S22	1F3	2002/7/18	3/11/2011	3158	8.65	39260
1FPPOOL	F3S27	1F3	2002/7/18	3/11/2011	3158	8.65	44921
1FPPOOL	F3S28	1F3	2002/7/18	3/11/2011	3158	8.65	44940
1FPPOOL	F3S29	1F3	2002/7/18	3/11/2011	3158	8.65	44767
1FPPOOL	F3S41	1F3	2002/7/18	3/11/2011	3158	8.65	44352
1FPPOOL	F3S42	1F3	2002/7/18	3/11/2011	3158	8.65	44271
1FPPOOL	F3S43	1F3	2002/7/18	3/11/2011	3158	8.65	44347
1FPPOOL	F6P94	1F6	2003/9/30	3/11/2011	2719	7.45	38740
1FPPOOL	F6P96	1F6	2003/9/30	3/11/2011	2719	7.45	38465
1FPPOOL	F6P97	1F6	2003/9/30	3/11/2011	2719	7.45	38496
1FPPOOL	F6P98	1F6	2003/9/30	3/11/2011	2719	7.45	39331
1FPPOOL	F6P99	1F6	2003/9/30	3/11/2011	2719	7.45	38700
1FPPOOL	F2P61	1F2	2003/3/31	3/11/2011	2902	7.95	38561
1FPPOOL	F2P86	1F2	2003/3/31	3/11/2011	2902	7.95	42293
1FPPOOL	F2P87	1F2	2003/3/31	3/11/2011	2902	7.95	42355
1FPPOOL	F2P88	1F2	2003/3/31	3/11/2011	2902	7.95	42159
1FPPOOL	F2P89	1F2	2003/3/31	3/11/2011	2902	7.95	42249
1FPPOOL	F2P90	1F2	2003/3/31	3/11/2011	2902	7.95	42415
1FPPOOL	F2P91	1F2	2003/3/31	3/11/2011	2902	7.95	42271
1FPPOOL	F2P92	1F2	2003/3/31	3/11/2011	2902	7.95	42083
1FPPOOL	F2R39	1F2	2003/3/31	3/11/2011	2902	7.95	39570
1FPPOOL	F2RN31	1F2	2003/3/31	3/11/2011	2902	7.95	38672
1FPPOOL	F2S1	1F2	2003/3/31	3/11/2011	2902	7.95	39365
1FPPOOL	F2S100	1F2	2003/3/31	3/11/2011	2902	7.95	40453

1FPPOOL	F2S101	1F2	2003/3/31	3/11/2011	2902	7.95	39912
1FPPOOL	F2S103	1F2	2003/3/31	3/11/2011	2902	7.95	40452
1FPPOOL	F2S104	1F2	2003/3/31	3/11/2011	2902	7.95	40478
1FPPOOL	F2S109	1F2	2003/3/31	3/11/2011	2902	7.95	38409
1FPPOOL	F2S116	1F2	2003/3/31	3/11/2011	2902	7.95	39885
1FPPOOL	F2S108	1F2	2003/3/31	3/11/2011	2902	7.95	38413
1FPPOOL	F2S120	1F2	2003/3/31	3/11/2011	2902	7.95	43071
1FPPOOL	F2S121	1F2	2003/3/31	3/11/2011	2902	7.95	41441
1FPPOOL	F2S128	1F2	2003/3/31	3/11/2011	2902	7.95	42257
1FPPOOL	F2S130	1F2	2003/3/31	3/11/2011	2902	7.95	38355
1FPPOOL	F2S135	1F2	2003/3/31	3/11/2011	2902	7.95	42317
1FPPOOL	F2S138	1F2	2003/3/31	3/11/2011	2902	7.95	43023
1FPPOOL	F2S17	1F2	2003/3/31	3/11/2011	2902	7.95	41451
1FPPOOL	F2S18	1F2	2003/3/31	3/11/2011	2902	7.95	40512
1FPPOOL	F2S19	1F2	2003/3/31	3/11/2011	2902	7.95	39620
1FPPOOL	F2S28	1F2	2003/3/31	3/11/2011	2902	7.95	38769
1FPPOOL	F2S33	1F2	2003/3/31	3/11/2011	2902	7.95	42171
1FPPOOL	F2S35	1F2	2003/3/31	3/11/2011	2902	7.95	39616
1FPPOOL	F2S4	1F2	2003/3/31	3/11/2011	2902	7.95	41383
1FPPOOL	F2S40	1F2	2003/3/31	3/11/2011	2902	7.95	39700
1FPPOOL	F2S41	1F2	2003/3/31	3/11/2011	2902	7.95	42131
1FPPOOL	F2S43	1F2	2003/3/31	3/11/2011	2902	7.95	39460
1FPPOOL	F2S5	1F2	2003/3/31	3/11/2011	2902	7.95	39291
1FPPOOL	F2S6	1F2	2003/3/31	3/11/2011	2902	7.95	39226
1FPPOOL	F2S77	1F2	2003/3/31	3/11/2011	2902	7.95	41345
1FPPOOL	F2S79	1F2	2003/3/31	3/11/2011	2902	7.95	42940
1FPPOOL	F2S81	1F2	2003/3/31	3/11/2011	2902	7.95	43261
1FPPOOL	F2S84	1F2	2003/3/31	3/11/2011	2902	7.95	40008
1FPPOOL	F2S85	1F2	2003/3/31	3/11/2011	2902	7.95	38335
1FPPOOL	F2S88	1F2	2003/3/31	3/11/2011	2902	7.95	38561
1FPPOOL	F2S89	1F2	2003/3/31	3/11/2011	2902	7.95	42164
1FPPOOL	F2S9	1F2	2003/3/31	3/11/2011	2902	7.95	39750
1FPPOOL	F2S92	1F2	2003/3/31	3/11/2011	2902	7.95	43189
1FPPOOL	F2S94	1F2	2003/3/31	3/11/2011	2902	7.95	38727
1FPPOOL	F2S96	1F2	2003/3/31	3/11/2011	2902	7.95	41331
1FPPOOL	F2S97	1F2	2003/3/31	3/11/2011	2902	7.95	43129
1FPPOOL	F5P51	1F5	2003/2/11	3/11/2011	2950	8.08	37906
1FPPOOL	F5P52	1F5	2003/2/11	3/11/2011	2950	8.08	37917
1FPPOOL	F5P53	1F5	2003/2/11	3/11/2011	2950	8.08	37836
1FPPOOL	F5P54	1F5	2003/2/11	3/11/2011	2950	8.08	37833
1FPPOOL	F5PN69	1F5	2003/2/11	3/11/2011	2950	8.08	37194
1FPPOOL	F5PN70	1F5	2003/2/11	3/11/2011	2950	8.08	37217
1FPPOOL	F5PN71	1F5	2003/2/11	3/11/2011	2950	8.08	37549
1FPPOOL	F5PN72	1F5	2003/2/11	3/11/2011	2950	8.08	37544
1FPPOOL	F5PN73	1F5	2003/2/11	3/11/2011	2950	8.08	37392
1FPPOOL	F5PN74	1F5	2003/2/11	3/11/2011	2950	8.08	37390
1FPPOOL	F5R114	1F5	2003/2/11	3/11/2011	2950	8.08	37673
1FPPOOL	F5R115	1F5	2003/2/11	3/11/2011	2950	8.08	37580
1FPPOOL	F5R116	1F5	2003/2/11	3/11/2011	2950	8.08	37615
1FPPOOL	F5R113	1F5	2003/2/11	3/11/2011	2950	8.08	37656
1FPPOOL	F5R13	1F5	2003/2/11	3/11/2011	2950	8.08	37152
1FPPOOL	F5R14	1F5	2003/2/11	3/11/2011	2950	8.08	37166
1FPPOOL	F5R15	1F5	2003/2/11	3/11/2011	2950	8.08	37197

1FPPOOL	F5R16	1F5	2003/2/11	3/11/2011	2950	8.08	37213
1FPPOOL	F5R25	1F5	2003/2/11	3/11/2011	2950	8.08	46063
1FPPOOL	F5R27	1F5	2003/2/11	3/11/2011	2950	8.08	46022
1FPPOOL	F5R28	1F5	2003/2/11	3/11/2011	2950	8.08	46062
1FPPOOL	F5R33	1F5	2003/2/11	3/11/2011	2950	8.08	37248
1FPPOOL	F5R34	1F5	2003/2/11	3/11/2011	2950	8.08	37265
1FPPOOL	F5R35	1F5	2003/2/11	3/11/2011	2950	8.08	37388
1FPPOOL	F5R36	1F5	2003/2/11	3/11/2011	2950	8.08	37439
1FPPOOL	F5R61	1F5	2003/2/11	3/11/2011	2950	8.08	37344
1FPPOOL	F5R62	1F5	2003/2/11	3/11/2011	2950	8.08	37360
1FPPOOL	F5R63	1F5	2003/2/11	3/11/2011	2950	8.08	37383
1FPPOOL	F5R64	1F5	2003/2/11	3/11/2011	2950	8.08	37379
1FPPOOL	F5R73	1F5	2003/2/11	3/11/2011	2950	8.08	45567
1FPPOOL	F5R74	1F5	2003/2/11	3/11/2011	2950	8.08	45580
1FPPOOL	F5R76	1F5	2003/2/11	3/11/2011	2950	8.08	45514
1FPPOOL	F5R77	1F5	2003/2/11	3/11/2011	2950	8.08	45608
1FPPOOL	F5R78	1F5	2003/2/11	3/11/2011	2950	8.08	45631
1FPPOOL	F5R79	1F5	2003/2/11	3/11/2011	2950	8.08	45756
1FPPOOL	F5R80	1F5	2003/2/11	3/11/2011	2950	8.08	45739
1FPPOOL	F5R81	1F5	2003/2/11	3/11/2011	2950	8.08	37195
1FPPOOL	F5R82	1F5	2003/2/11	3/11/2011	2950	8.08	37209
1FPPOOL	F5R83	1F5	2003/2/11	3/11/2011	2950	8.08	37160
1FPPOOL	F5R84	1F5	2003/2/11	3/11/2011	2950	8.08	37205
1FPPOOL	F5R85	1F5	2003/2/11	3/11/2011	2950	8.08	37522
1FPPOOL	F5R86	1F5	2003/2/11	3/11/2011	2950	8.08	37534
1FPPOOL	F6N121	1F6	2003/9/30	3/11/2011	2719	7.45	40203
1FPPOOL	F6N123	1F6	2003/9/30	3/11/2011	2719	7.45	40182
1FPPOOL	F6N124	1F6	2003/9/30	3/11/2011	2719	7.45	40280
1FPPOOL	F6N129	1F6	2003/9/30	3/11/2011	2719	7.45	38417
1FPPOOL	F6N13	1F6	2003/9/30	3/11/2011	2719	7.45	39145
1FPPOOL	F6N130	1F6	2003/9/30	3/11/2011	2719	7.45	38894
1FPPOOL	F6N131	1F6	2003/9/30	3/11/2011	2719	7.45	38692
1FPPOOL	F6N132	1F6	2003/9/30	3/11/2011	2719	7.45	38663
1FPPOOL	F6N133	1F6	2003/9/30	3/11/2011	2719	7.45	39972
1FPPOOL	F6N134	1F6	2003/9/30	3/11/2011	2719	7.45	40463
1FPPOOL	F6N135	1F6	2003/9/30	3/11/2011	2719	7.45	42849
1FPPOOL	F6N136	1F6	2003/9/30	3/11/2011	2719	7.45	40526
1FPPOOL	F6N137	1F6	2003/9/30	3/11/2011	2719	7.45	39966
1FPPOOL	F6N138	1F6	2003/9/30	3/11/2011	2719	7.45	40422
1FPPOOL	F6N14	1F6	2003/9/30	3/11/2011	2719	7.45	39450
1FPPOOL	F6N140	1F6	2003/9/30	3/11/2011	2719	7.45	40636
1FPPOOL	F6N144	1F6	2003/9/30	3/11/2011	2719	7.45	41699
1FPPOOL	F6N149	1F6	2003/9/30	3/11/2011	2719	7.45	40650
1FPPOOL	F6N15	1F6	2003/9/30	3/11/2011	2719	7.45	39619
1FPPOOL	F6N150	1F6	2003/9/30	3/11/2011	2719	7.45	41187
1FPPOOL	F6N151	1F6	2003/9/30	3/11/2011	2719	7.45	41624
1FPPOOL	F6N152	1F6	2003/9/30	3/11/2011	2719	7.45	41416
1FPPOOL	F6N153	1F6	2003/9/30	3/11/2011	2719	7.45	40105
1FPPOOL	F6N154	1F6	2003/9/30	3/11/2011	2719	7.45	40855
1FPPOOL	F6N156	1F6	2003/9/30	3/11/2011	2719	7.45	41099
1FPPOOL	F6N16	1F6	2003/9/30	3/11/2011	2719	7.45	39901
1FPPOOL	F6N17	1F6	2003/9/30	3/11/2011	2719	7.45	39217
1FPPOOL	F6N18	1F6	2003/9/30	3/11/2011	2719	7.45	39354

1FPPOOL	F6N19	1F6	2003/9/30	3/11/2011	2719	7.45	39549
1FPPOOL	F6N20	1F6	2003/9/30	3/11/2011	2719	7.45	39298
1FPPOOL	F6P100	1F6	2003/9/30	3/11/2011	2719	7.45	39009
1FPPOOL	F6P101	1F6	2003/9/30	3/11/2011	2719	7.45	40943
1FPPOOL	F6P102	1F6	2003/9/30	3/11/2011	2719	7.45	41471
1FPPOOL	F6P103	1F6	2003/9/30	3/11/2011	2719	7.45	41097
1FPPOOL	F6P104	1F6	2003/9/30	3/11/2011	2719	7.45	41593
1FPPOOL	F6P112	1F6	2003/9/30	3/11/2011	2719	7.45	38769
1FPPOOL	F6P117	1F6	2003/9/30	3/11/2011	2719	7.45	42338
1FPPOOL	F5S35	1F5	2003/2/11	3/11/2011	2950	8.08	37160
1FPPOOL	F5S36	1F5	2003/2/11	3/11/2011	2950	8.08	37157
1FPPOOL	F6P110	1F6	2003/9/30	3/11/2011	2719	7.45	39167
1FPPOOL	F6P111	1F6	2003/9/30	3/11/2011	2719	7.45	38790
1FPPOOL	F6P171	1F6	2003/9/30	3/11/2011	2719	7.45	39015
1FPPOOL	F6P172	1F6	2003/9/30	3/11/2011	2719	7.45	39305
1FPPOOL	F6P30	1F6	2003/9/30	3/11/2011	2719	7.45	39650
1FPPOOL	F6P31	1F6	2003/9/30	3/11/2011	2719	7.45	42323
1FPPOOL	F6P32	1F6	2003/9/30	3/11/2011	2719	7.45	42278
1FPPOOL	F6P35	1F6	2003/9/30	3/11/2011	2719	7.45	42801
1FPPOOL	F6P4	1F6	2003/9/30	3/11/2011	2719	7.45	42848
1FPPOOL	F6P45	1F6	2003/9/30	3/11/2011	2719	7.45	40513
1FPPOOL	F6P5	1F6	2003/9/30	3/11/2011	2719	7.45	42038
1FPPOOL	F6P55	1F6	2003/9/30	3/11/2011	2719	7.45	38869
1FPPOOL	F6P57	1F6	2003/9/30	3/11/2011	2719	7.45	41505
1FPPOOL	F6P59	1F6	2003/9/30	3/11/2011	2719	7.45	39246
1FPPOOL	F6P6	1F6	2003/9/30	3/11/2011	2719	7.45	42821
1FPPOOL	F6P69	1F6	2003/9/30	3/11/2011	2719	7.45	42160
1FPPOOL	F6P71	1F6	2003/9/30	3/11/2011	2719	7.45	42380
1FPPOOL	F6P83	1F6	2003/9/30	3/11/2011	2719	7.45	43848
1FPPOOL	F6P74	1F6	2003/9/30	3/11/2011	2719	7.45	40385
1FPPOOL	F6P119	1F6	2003/9/30	3/11/2011	2719	7.45	42143
1FPPOOL	F6P13	1F6	2003/9/30	3/11/2011	2719	7.45	41972
1FPPOOL	F6P15	1F6	2003/9/30	3/11/2011	2719	7.45	42167
1FPPOOL	F6P165	1F6	2003/9/30	3/11/2011	2719	7.45	41679
1FPPOOL	F6P166	1F6	2003/9/30	3/11/2011	2719	7.45	42247
1FPPOOL	F6P167	1F6	2003/9/30	3/11/2011	2719	7.45	42032
1FPPOOL	F6P168	1F6	2003/9/30	3/11/2011	2719	7.45	42238
1FPPOOL	F6P169	1F6	2003/9/30	3/11/2011	2719	7.45	39256
1FPPOOL	F6P170	1F6	2003/9/30	3/11/2011	2719	7.45	39364
1FPPOOL	F6P176	1F6	2003/9/30	3/11/2011	2719	7.45	43650
1FPPOOL	F6P177	1F6	2003/9/30	3/11/2011	2719	7.45	42842
1FPPOOL	F6P18	1F6	2003/9/30	3/11/2011	2719	7.45	38453
1FPPOOL	F3T90	1F3	2004/8/6	3/11/2011	2408	6.60	42862
1FPPOOL	F3T91	1F3	2004/8/6	3/11/2011	2408	6.60	42663
1FPPOOL	F3T92	1F3	2004/8/6	3/11/2011	2408	6.60	42860
1FPPOOL	F3T93	1F3	2004/8/6	3/11/2011	2408	6.60	42976
1FPPOOL	F3T95	1F3	2004/8/6	3/11/2011	2408	6.60	42977
1FPPOOL	F3T96	1F3	2004/8/6	3/11/2011	2408	6.60	42804
1FPPOOL	F3T97	1F3	2004/8/6	3/11/2011	2408	6.60	39594
1FPPOOL	F3T98	1F3	2004/8/6	3/11/2011	2408	6.60	39586
1FPPOOL	F3T86	1F3	2004/8/6	3/11/2011	2408	6.60	42817
1FPPOOL	F3T87	1F3	2004/8/6	3/11/2011	2408	6.60	42856
1FPPOOL	F3T88	1F3	2004/8/6	3/11/2011	2408	6.60	42819

1FPPOOL	F3T89	1F3	2004/8/6	3/11/2011	2408	6.60	42670
1FPPOOL	F3T94	1F3	2004/8/6	3/11/2011	2408	6.60	42821
1FPPOOL	F3T99	1F3	2004/8/6	3/11/2011	2408	6.60	39586
1FPPOOL	F3T25	1F3	2004/8/6	3/11/2011	2408	6.60	42117
1FPPOOL	F3T26	1F3	2004/8/6	3/11/2011	2408	6.60	42083
1FPPOOL	F3T27	1F3	2004/8/6	3/11/2011	2408	6.60	42118
1FPPOOL	F3T100	1F3	2004/8/6	3/11/2011	2408	6.60	39586
1FPPOOL	F3T121	1F3	2004/8/6	3/11/2011	2408	6.60	39073
1FPPOOL	F3T122	1F3	2004/8/6	3/11/2011	2408	6.60	39121
1FPPOOL	F3T124	1F3	2004/8/6	3/11/2011	2408	6.60	39115
1FPPOOL	F3T125	1F3	2004/8/6	3/11/2011	2408	6.60	39080
1FPPOOL	F3T28	1F3	2004/8/6	3/11/2011	2408	6.60	42074
1FPPOOL	F3T37	1F3	2004/8/6	3/11/2011	2408	6.60	41641
1FPPOOL	F3T38	1F3	2004/8/6	3/11/2011	2408	6.60	41652
1FPPOOL	F3T39	1F3	2004/8/6	3/11/2011	2408	6.60	41642
1FPPOOL	F3T40	1F3	2004/8/6	3/11/2011	2408	6.60	41650
1FPPOOL	F3T41	1F3	2004/8/6	3/11/2011	2408	6.60	42271
1FPPOOL	F3T42	1F3	2004/8/6	3/11/2011	2408	6.60	42267
1FPPOOL	F3T43	1F3	2004/8/6	3/11/2011	2408	6.60	42275
1FPPOOL	F3T44	1F3	2004/8/6	3/11/2011	2408	6.60	42265
1FPPOOL	F3T5	1F3	2004/8/6	3/11/2011	2408	6.60	39420
1FPPOOL	F3T6	1F3	2004/8/6	3/11/2011	2408	6.60	39340
1FPPOOL	F3T61	1F3	2004/8/6	3/11/2011	2408	6.60	43294
1FPPOOL	F3T62	1F3	2004/8/6	3/11/2011	2408	6.60	43284
1FPPOOL	F3T63	1F3	2004/8/6	3/11/2011	2408	6.60	43322
1FPPOOL	F3T64	1F3	2004/8/6	3/11/2011	2408	6.60	43313
1FPPOOL	F3T65	1F3	2004/8/6	3/11/2011	2408	6.60	42115
1FPPOOL	F3T66	1F3	2004/8/6	3/11/2011	2408	6.60	42137
1FPPOOL	F3T67	1F3	2004/8/6	3/11/2011	2408	6.60	42205
1FPPOOL	F3T68	1F3	2004/8/6	3/11/2011	2408	6.60	42225
1FPPOOL	F3T7	1F3	2004/8/6	3/11/2011	2408	6.60	39422
1FPPOOL	F3T73	1F3	2004/8/6	3/11/2011	2408	6.60	41440
1FPPOOL	F3T75	1F3	2004/8/6	3/11/2011	2408	6.60	41376
1FPPOOL	F3T78	1F3	2004/8/6	3/11/2011	2408	6.60	41366
1FPPOOL	F3T8	1F3	2004/8/6	3/11/2011	2408	6.60	39331
1FPPOOL	F3T80	1F3	2004/8/6	3/11/2011	2408	6.60	41339
1FPPOOL	F3T81	1F3	2004/8/6	3/11/2011	2408	6.60	42991
1FPPOOL	F3T82	1F3	2004/8/6	3/11/2011	2408	6.60	42963
1FPPOOL	F3T83	1F3	2004/8/6	3/11/2011	2408	6.60	42958
1FPPOOL	F3T84	1F3	2004/8/6	3/11/2011	2408	6.60	42982
1FPPOOL	F3T85	1F3	2004/8/6	3/11/2011	2408	6.60	42876
1FPPOOL	F2R14	1F2	2005/4/18	3/11/2011	2153	5.90	39361
1FPPOOL	F2P79	1F2	2005/4/18	3/11/2011	2153	5.90	40948
1FPPOOL	F2S105	1F2	2005/4/18	3/11/2011	2153	5.90	40187
1FPPOOL	F2S107	1F2	2005/4/18	3/11/2011	2153	5.90	40427
1FPPOOL	F2S112	1F2	2005/4/18	3/11/2011	2153	5.90	40162
1FPPOOL	F2S12	1F2	2005/4/18	3/11/2011	2153	5.90	40720
1FPPOOL	F2S131	1F2	2005/4/18	3/11/2011	2153	5.90	40298
1FPPOOL	F2S132	1F2	2005/4/18	3/11/2011	2153	5.90	40848
1FPPOOL	F2S2	1F2	2005/4/18	3/11/2011	2153	5.90	38815
1FPPOOL	F2S36	1F2	2005/4/18	3/11/2011	2153	5.90	41475
1FPPOOL	F2S67	1F2	2005/4/18	3/11/2011	2153	5.90	41359
1FPPOOL	F2S70	1F2	2005/4/18	3/11/2011	2153	5.90	41472

1FPPOOL	F2S74	1F2	2005/4/18	3/11/2011	2153	5.90	41401
1FPPOOL	F2S75	1F2	2005/4/18	3/11/2011	2153	5.90	41334
1FPPOOL	F2S86	1F2	2005/4/18	3/11/2011	2153	5.90	40216
1FPPOOL	F2S87	1F2	2005/4/18	3/11/2011	2153	5.90	41122
1FPPOOL	F2S98	1F2	2005/4/18	3/11/2011	2153	5.90	39027
1FPPOOL	F2S99	1F2	2005/4/18	3/11/2011	2153	5.90	40475
1FPPOOL	F2T28	1F2	2005/4/18	3/11/2011	2153	5.90	38331
1FPPOOL	F2T19	1F2	2005/4/18	3/11/2011	2153	5.90	38381
1FPPOOL	F2T23	1F2	2005/4/18	3/11/2011	2153	5.90	38395
1FPPOOL	F2T24	1F2	2005/4/18	3/11/2011	2153	5.90	38235
1FPPOOL	F2T26	1F2	2005/4/18	3/11/2011	2153	5.90	38402
1FPPOOL	F2T33	1F2	2005/4/18	3/11/2011	2153	5.90	40695
1FPPOOL	F2T46	1F2	2005/4/18	3/11/2011	2153	5.90	38178
1FPPOOL	F2T50	1F2	2005/4/18	3/11/2011	2153	5.90	38142
1FPPOOL	F2T72	1F2	2005/4/18	3/11/2011	2153	5.90	38028
1FPPOOL	F2TN20	1F2	2005/4/18	3/11/2011	2153	5.90	39683
1FPPOOL	F2TN12	1F2	2005/4/18	3/11/2011	2153	5.90	37658
1FPPOOL	F2TN14	1F2	2005/4/18	3/11/2011	2153	5.90	39709
1FPPOOL	F2TN16	1F2	2005/4/18	3/11/2011	2153	5.90	39725
1FPPOOL	F2TN18	1F2	2005/4/18	3/11/2011	2153	5.90	39621
1FPPOOL	F2TN30	1F2	2005/4/18	3/11/2011	2153	5.90	37992
1FPPOOL	F2TN31	1F2	2005/4/18	3/11/2011	2153	5.90	38286
1FPPOOL	F2TN34	1F2	2005/4/18	3/11/2011	2153	5.90	37957
1FPPOOL	F2TN35	1F2	2005/4/18	3/11/2011	2153	5.90	38234
1FPPOOL	F2TN46	1F2	2005/4/18	3/11/2011	2153	5.90	39831
1FPPOOL	F2TN48	1F2	2005/4/18	3/11/2011	2153	5.90	39828
1FPPOOL	F2TN50	1F2	2005/4/18	3/11/2011	2153	5.90	39822
1FPPOOL	F2TN52	1F2	2005/4/18	3/11/2011	2153	5.90	39833
1FPPOOL	F2TN8	1F2	2005/4/18	3/11/2011	2153	5.90	37656
1FPPOOL	F6P137	1F6	2005/12/21	3/11/2011	1906	5.22	39847
1FPPOOL	F6P64	1F6	2005/12/21	3/11/2011	1906	5.22	42386
1FPPOOL	F6P91	1F6	2005/12/21	3/11/2011	1906	5.22	44971
1FPPOOL	F6R15	1F6	2005/12/21	3/11/2011	1906	5.22	42671
1FPPOOL	F6R3	1F6	2005/12/21	3/11/2011	1906	5.22	39854
1FPPOOL	F6R5	1F6	2005/12/21	3/11/2011	1906	5.22	39843
1FPPOOL	F6R74	1F6	2005/12/21	3/11/2011	1906	5.22	39845
1FPPOOL	F6RN2	1F6	2005/12/21	3/11/2011	1906	5.22	39801
1FPPOOL	F6RN32	1F6	2005/12/21	3/11/2011	1906	5.22	39989
1FPPOOL	F6RN56	1F6	2005/12/21	3/11/2011	1906	5.22	42897
1FPPOOL	F6R91	1F6	2005/12/21	3/11/2011	1906	5.22	39865
1FPPOOL	F6R97	1F6	2005/12/21	3/11/2011	1906	5.22	39857
1FPPOOL	F6RN66	1F6	2005/12/21	3/11/2011	1906	5.22	42685
1FPPOOL	F3T139	1F3	2006/2/22	3/11/2011	1843	5.05	41149
1FPPOOL	F3T140	1F3	2006/2/22	3/11/2011	1843	5.05	39786
1FPPOOL	F3T141	1F3	2006/2/22	3/11/2011	1843	5.05	39847
1FPPOOL	F3T142	1F3	2006/2/22	3/11/2011	1843	5.05	41097
1FPPOOL	F3T143	1F3	2006/2/22	3/11/2011	1843	5.05	39837
1FPPOOL	F3T144	1F3	2006/2/22	3/11/2011	1843	5.05	41130
1FPPOOL	F3T45	1F3	2006/2/22	3/11/2011	1843	5.05	40712
1FPPOOL	F3T47	1F3	2006/2/22	3/11/2011	1843	5.05	40716
1FPPOOL	F3T50	1F3	2006/2/22	3/11/2011	1843	5.05	40661
1FPPOOL	F3T52	1F3	2006/2/22	3/11/2011	1843	5.05	40644
1FPPOOL	F3T74	1F3	2006/2/22	3/11/2011	1843	5.05	40375

1FPPOOL	F3T76	1F3	2006/2/22	3/11/2011	1843	5.05	40334
1FPPOOL	F3T77	1F3	2006/2/22	3/11/2011	1843	5.05	40235
1FPPOOL	F3T79	1F3	2006/2/22	3/11/2011	1843	5.05	40253
1FPPOOL	F3U105	1F3	2006/2/22	3/11/2011	1843	5.05	41057
1FPPOOL	F3U106	1F3	2006/2/22	3/11/2011	1843	5.05	41156
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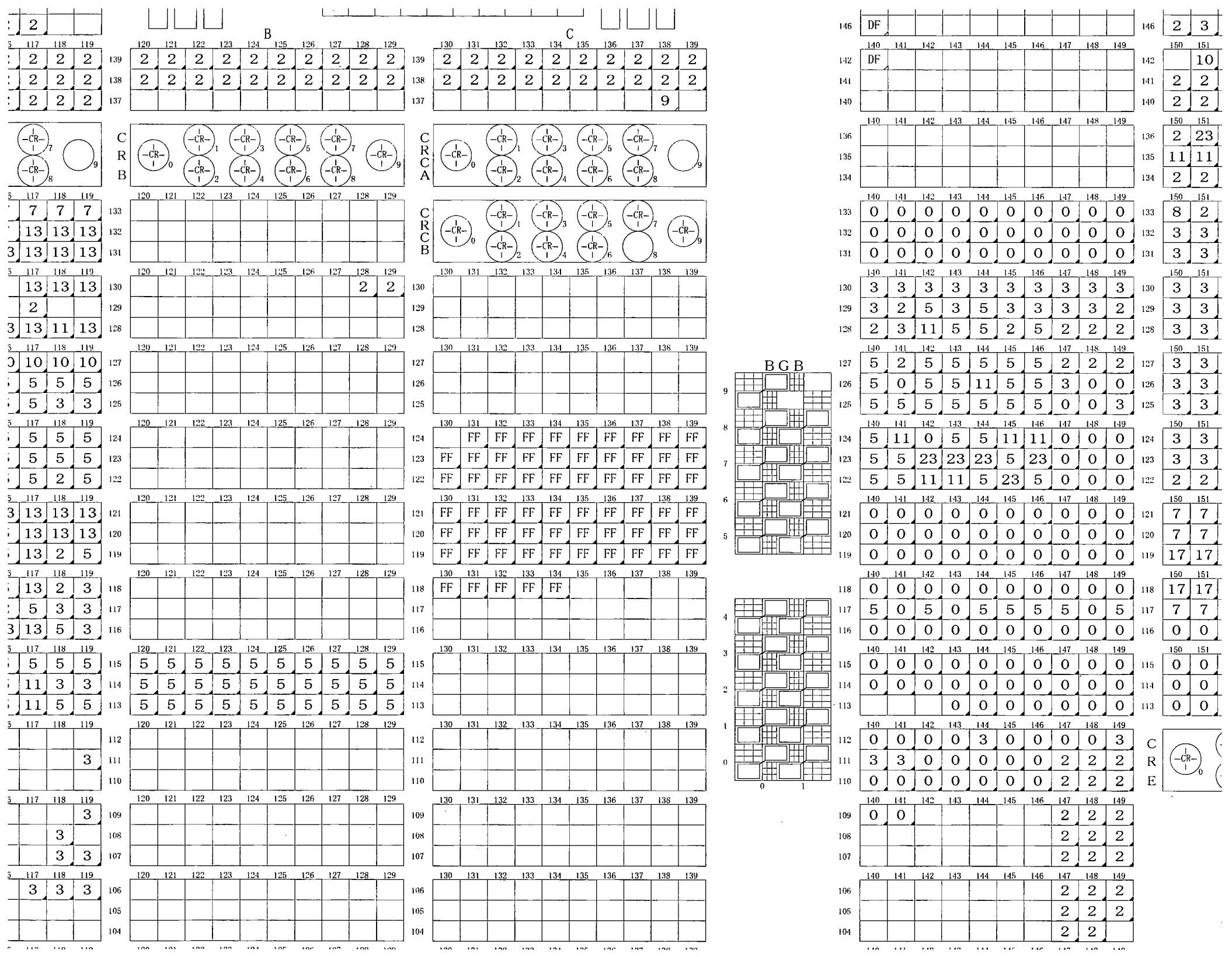
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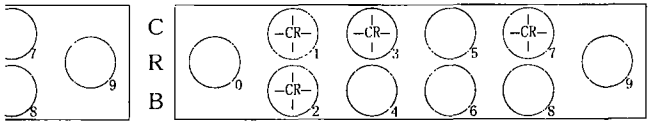

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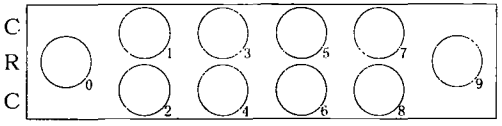

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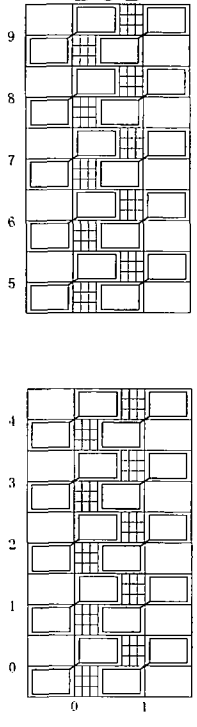

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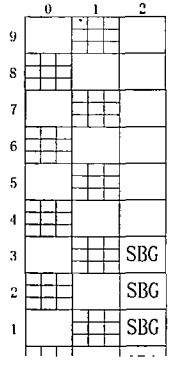

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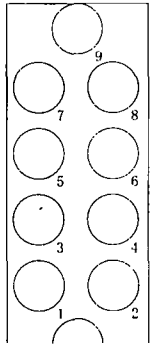

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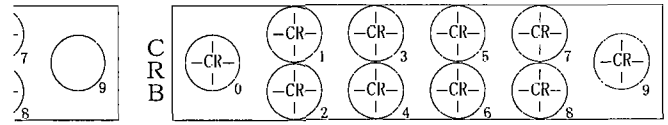

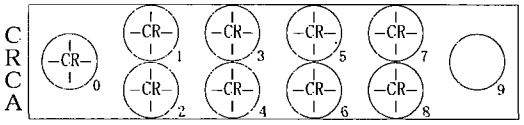

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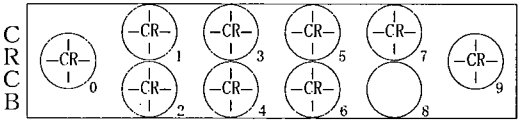

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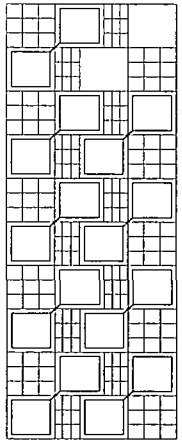

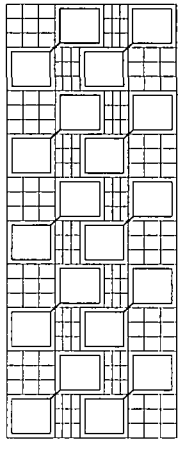

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130	F6SN 84	F6SN 27	F6SN 42	F6SN 113	F6SN 76	F6SN 116	F6P 90	F6SN 127	F6SN 43	F6SN 72
129	F6SN 184	F6TN 22	F6N 148	F6SN 56	F6P 150	F6SN 41	F6SN 115	F6SN 94	F6SN 78	F6TN 102
128	F6TN 4	F6SN 54	F6J 30	F6P 151	F6RN 23	F6TN 101	F6P 22	F6TN 103	F6TN 74	F6TN 3

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127	F6RN 43	F6TN 75	F6P 68	F6N 145	F6RN 24	F6P 65	F6P 127	F6TN 73	F6TN 41	F6TN 2
126	F6P 186	F6TN 96	F6P 85	F6P 128	F6K 240	F6P 159	F6RN 22	F6P 190	F6SN 136	F6TN 160
125	F6P 67	F6P 87	F6P 121	F6RN 14	F6P 123	F6P 125	F6RN 65	F6TN 136	F6TN 158	F6R 39

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124	F6P 49	F6J 26	F6TN 93	F6P 188	F6P 88	F6K 214	F6J 28	F6TN 95	F6UN 33	F6TN 40
123	F6P 149	F6P 124	F6B 147	F6B 154	F6B 243	F6P 181	F6B 148	F6UN 36	F6TN 159	F6TN 157
122	F6RN 15	F6P 162	F6K 238	F6K 216	F6RN 28	F6B 249	F6P 185	F6UN 35	F6UN 34	F6UN 68

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117	F6P 148	F6TN 171	F6RN 26	F6TN 169	F6P 160	F6P 78	F6P 161	F6R 70	F6TN 143	F6P 52
116	F6UN 22	F6UN 165	F6UN 166	F6UN 37	F6TN 28	F6UN 129	F6UN 167	F6UN 131	F6TN 32	F6UN 38

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113				F6UN 55	F6TN 67	F6TN 179	F6UN 3	F6TN 11	F6TN 54	F6TN 58

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111	F6R 77	F6R 79	F6UN 18	F6UN 155	F6UN 39	F6TN 38	F6TN 78	F6SN 48	F6SN 165	F6TN 126
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108								F6TN 127	F6SN 66	F6SN 80
107								F6SN 52	F6TN 138	F6SN 31

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106								F6SN 117	F6TN 88	F6TN 137
105								F6TN 48	F6SN 79	F6SN 45

	150	15
146	F6TN 85	F6 8
142		F6 2
141	F6TN 86	F6 6
140	F6SN 18	F6 8
136	F6SN 159	F6 2
135	F6J 20	F6 3
134	F6TN 45	F6 4
133	F6N 8	F6 1
132	F6R 86	F6 8
131	F6P 154	F6 5
130	F6SN 12	F6 1
129	F6P 191	F6 4
128	F6SN 143	F6 1
127	F6RN 51	F6 8
126	F6SN 26	F6 1
125	F6SN 25	F6 1
124	F6SN 44	F6 9
123	F6R 59	F6 2
122	F6TN 24	F6 4
121	F6P 75	F6 3
120	F6P 179	F6 3
119	F6G 36	F6 3
118	F6G 93	F6 1
117	F6P 178	F6 1
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115	F6TN 7	F6 2
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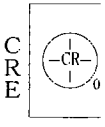

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24	C	C	C	C	C					DF
23	SBG	SBG	SBG	SBG						DF

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21	F2T 67	F2T 16	F2UN 74	F2UN 96						
20	F2T 6	F2T 69								
19	F2T 73			F2RN 30						
18	F2T 10	F2T 47	F2R 7	F2S 123	F2S 44	F2S 127	F2S 126	F2S 90	F2RN 4	F2RN 57
17	F2S 129	F2R 42	F2S 91	F2S 49	F2S 119	F2P 68	F2P 73	F2RN 58	F2RN 3	F2S 21
16	F2P 82	F2RN 43	F2S 53	F2S 51	F2RN 37	F2RN 55	F2R 45	F2P 59	F2T 29	F2S 65
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7	F2ABN 21	~~F2R 13~~	F2ABN 22	~~F2S 34~~	F2ABN 23	F2ABN 24	F2ABN 25	F2ABN 26	F2ABN 27	F2ABN 28
6							F2ABN 17	F2ABN 18	F2ABN 19	F2ABN 20
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8	F2T 45	F2T 8								
7	F2S 50	F2T 49								
6	F2S 52	F2S 57								
5	F2T 64	F2T 62								
4	F2TN 24	F2T 59								

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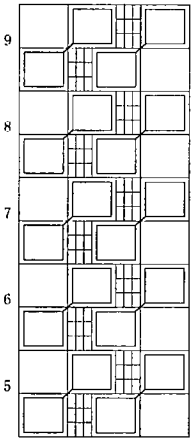

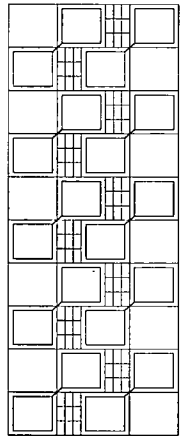

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28	F2UN 80	F2UN 84	F2UN 25	F2UN 29	F2UN 91	F2UN 105			F2VN 13	F2VN 14
27	F2UN 53	F2UN 18	F2UN 107	F2UN 102	F2UN 87	F2UN 56				F2S 20
26	F2UN 7	F2UN 66	F2UN 54	F2UN 55	F2UN 2	F2VN 83	F2VN 84	F2VN 82	F2VN 81	F2UN 124
25	F2WN 50	F2WN 78	F2WN 79	F2WN 77						
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23					F2VN 58	F2VN 95	F2VN 60	F2VN 59	F2VN 67	F2VN 57
22	F2T 52	F2T 25	F2T 27	F2TN 29	F2T 17	F2TN 33	F2T 21	F2S 55	F2S 26	F2S 23
21	F2T 20	F2T 32	F2T 36	F2T 70	F2T 74	F2TN 36	F2TN 32	F2T 48	F2T 18	F2T 22
20										
19	F2UN 4	F2UN 22	F2UN 43	F2S 69	F2T 76	F2R 35	F2S 29	F2S 47	F2S 110	F2UN 121
18	F2R 4	F2P 85	F2S 27	F2S 46	F2S 7	F2S 22	F2S 3	F2RN 11	F2UN 122	F2VN 86
17	F2UN 63	F2UN 93	F2RN 13	F2R 37	F2P 84	F2P 71	F2P 57	F2RN 50	F2R 28	F2RN 6
16	F2UN 46	F2UN 98	F2UN 57	F2UN 11	F2UN 16	F2UN 52	F2S 11	F2S 38	F2S 16	F2S 82
15	F2UN 103	F2UN 6								
14										
13	F2UN 27	F2UN 82	F2UN 97	F2UN 83	F2UN 26	F2UN 12	F2S 115	F2S 102	F2S 136	F2S 78
12	F2UN 1	F2UN 108	F2UN 60	F2UN 79	F2UN 41	F2UN 68	F2UN 76	F2R 27	F2P 72	F2UN 123
11	F2S 139	F2S 125	F2R 1	F2R 48	F2R 22	F2VN 85	F2VN 87	F2VN 88	F2UN 128	F2UN 127
10	F2UN 126	F2UN 125	F2VN 24	F2VN 21	F2UN 114	F2VN 23	F2VN 22	F2UN 113	F2UN 115	F2UN 116
9	F2UN 106	F2UN 33	F2UN 30	F2UN 3	F2UN 49	F2UN 21	F2UN 88	F2UN 101	F2UN 77	F2UN 58
8	F2UN 8	F2UN 32	F2UN 89	F2UN 85	F2UN 51	F2UN 24	F2UN 81	F2UN 39	F2UN 70	F2UN 61
7	F2UN 20	F2UN 75	F2UN 48	F2UN 28	F2UN 140	F2UN 138	F2UN 139	F2UN 137	F2VN 92	F2S 66
6	F2UN 34	F2UN 94	F2VN 91	F2VN 90	F2VN 64	F2UN 73	F2S 68	F2VN 89	F2VN 62	
5	F2UN 86	F2UN 23	F2UN 14	F2VN 61	F2VN 63	F2UN 95	F2UN 36	F2VN 75	F2S 37	F2P 80
4	F2VN 76	F2VN 74	F2S 76	F2S 13	F2T 35	F2VN 73	F2S 15	F2R 36	F2P 62	F2VN 28

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28	F2WN 80	F2W 51								
27	F2WN 108	F2W 105								
26	F2VN 10	F2V 12								
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23	F2VN 108	F2W 1								
22	F2S 83	F2S 95								
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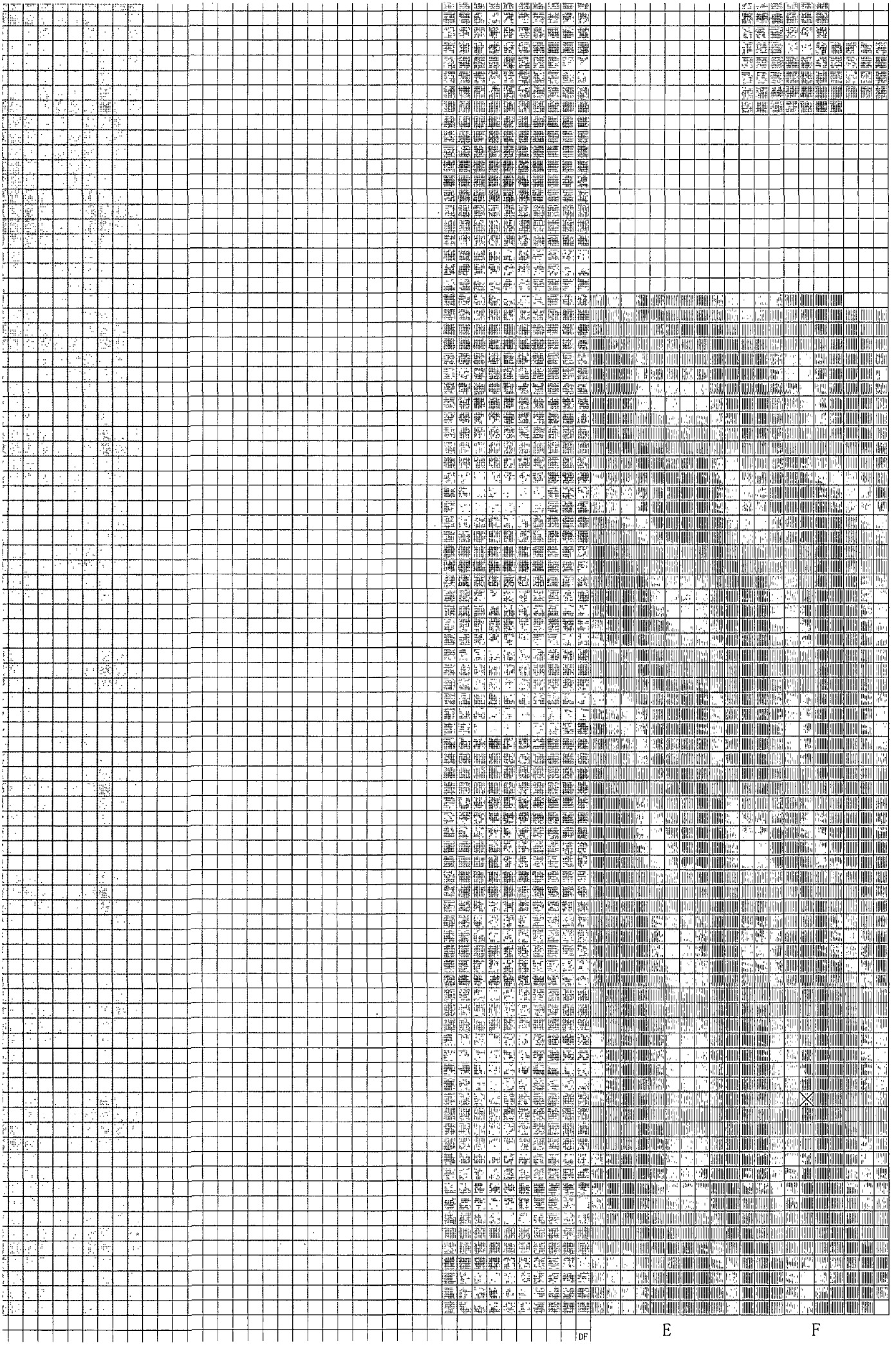

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From: Sheron, Brian
Sent: Thursday, March 24, 2011 1:19 PM
To: ET05 Hoc; Lee, Richard
Cc: OST02 HOC; FOIA Response.hoc Resource
Subject: RE:

Got it, thanks.

From: ET05 Hoc
Sent: Thursday, March 24, 2011 11:49 AM
To: Sheron, Brian; Lee, Richard
Cc: OST02 HOC; FOIA Response.hoc Resource
Subject:

Please find attached the current version of the RST assessment. It is currently being updated. This is to support Brian Sheron's participation in 1500 Congressional Call and RES staff's participation in DOE call at 1700.

PPP/480

From: Weber, Michael
Sent: Thursday, March 24, 2011 2:19 PM
To: PMT01 Hoc
Cc: LIA06 Hoc; LIA08 Hoc; ET05 Hoc; ET07 Hoc; OST02 HOC; FOIA Response.hoc Resource
Subject: FYI - EPA/NRC Press Release

From: Hayden, Elizabeth
Sent: Thursday, March 24, 2011 1:57 PM
To: Weber, Michael
Cc: Brenner, Eliot
Subject: EPA/NRC Press Release

Heard about a possible press release with EPA on radiation readings showing up at plants around the U.S. Our message should be something along the lines of we are aware that minute amounts of element=-XYZ have been detected at the very sensitive monitoring equipment at a number of operating nuclear plants. Nothing detected so far comes anywhere near a level that might concern us. We remain convinced there will be no health impact on the United States.
Please keep us in the loop. Thanks.

Beth

PPP/481

From: SHIMASAKI SEIICHI <seiichi.shimasaki@mofa.go.jp>
Sent: Thursday, March 24, 2011 2:58 PM
To: LIA03 Hoc
Cc: Emche, Danielle
Subject: RE: Number of NRC experts in Japan (on duty)

Thanks, and also thanks for your supports.

Best,
Shima

From: LIA03 Hoc [mailto:LIA03.Hoc@nrc.gov]
Sent: Thursday, March 24, 2011 2:44 PM
To: SHIMASAKI SEIICHI
Cc: Emche, Danielle
Subject: RE: Number of NRC experts in Japan (on duty)

Dear Shima,

NRC currently has 11 experts that have been in Japan since the 16th of March. A new team of 12 experts will replace the first team this week, and are expected to be in place by March 25th. The NRC has no objection to this information being released to the Japanese public.

I hope this helps.

Best Regards,
Lance

From: SHIMASAKI SEIICHI [mailto:seiichi.shimasaki@mofa.go.jp]
Sent: Thursday, March 24, 2011 2:12 PM
To: LIA03 Hoc
Cc: Emche, Danielle
Subject: Q: Number of NRC experts in Japan (on duty)

Dear NRC Staff,

Hi, it's been a tough and long days.
I'm preparing my ambassador's public statement fact sheet.

I understand, currently 13 NRC experts are in Japan and more (7 on 25th and 2 on Sunday) will come and some will leave.

As for the statement, which number of experts should be on the public?

"over 10 experts" or "around 10 experts" would be acceptable?

Please advise me which number should we use for public statement.

All the Best,
Shima

PPP/482

****
Seiichi SHIMASAKI (SHIMA)

First Secretary, Nuclear Energy Attache / Science Section
EMBASSY OF JAPAN
Phone: 202-238-6921 E-mail: seiichi.shimasaki@mofa.go.jp
****

From: LIA03 Hoc [mailto:LIA03.Hoc@nrc.gov]
Sent: Tuesday, March 22, 2011 7:07 PM
To: SHIMASAKI SEIICHI
Subject: RE: Arrival Times

Douitashimashite!

Lauren

From: SHIMASAKI SEIICHI [mailto:seiichi.shimasaki@mofa.go.jp]
Sent: Tuesday, March 22, 2011 7:04 PM
To: LIA03 Hoc
Subject: RE: Arrival Times

Grazzie,

Shima

From: LIA03 Hoc [mailto:LIA03.Hoc@nrc.gov]
Sent: Tuesday, March 22, 2011 7:04 PM
To: SHIMASAKI SEIICHI
Subject: RE: Arrival Times

He will arrive at 3:30 PM today.

From: SHIMASAKI SEIICHI [mailto:seiichi.shimasaki@mofa.go.jp]
Sent: Tuesday, March 22, 2011 7:02 PM
To: LIA03 Hoc
Subject: RE: Arrival Times

By the way, when Mr. Bramey will arrive at Tokyo?
I assume soon, but please le me clarify.
Thanks.

Shima

From: LIA03 Hoc [mailto:LIA03.Hoc@nrc.gov]
Sent: Tuesday, March 22, 2011 6:51 PM
To: SHIMASAKI SEIICHI
Subject: RE: Arrival Times

I am so sorry Shimasaki-San...I am too tired! Yes, Mr. Blamey will be arriving at 3:30 PM on March 23rd. There are a total of 11 staff now on the ground in Tokyo. One of the original 11 went home sick a few days ago, Mr. Kolb.

From: SHIMASAKI SEIICHI [mailto:seiichi.shimasaki@mofa.go.jp]
Sent: Tuesday, March 22, 2011 6:43 PM

To: LIA03 Hoc
Subject: RE: Arrival Times

What about Mr. Blamey?
Is he going to Japan?

In addition, could you give me the exact number of NRC people now in Japan? I think it's 12 now.

If you can spare time, please call me.

Best,
Shima

From: LIA03 Hoc [mailto:LIA03.Hoc@nrc.gov]
Sent: Tuesday, March 22, 2011 6:36 PM
To: SHIMASAKI SEIICHI
Subject: RE: Arrival Times

My apologies – I overlooked those three travelers. In addition to the 6 I listed in my previous email:

Mr. Dorman already arrived in Japan on the 20th. Mr. Scott will arrive March 23rd at 2:30 PM. Mr. Jackson will arrive March 25th at 2:15 PM.

Some of the people already in Japan are scheduled to come back at the end of this week. However, we are still working out their travel arrangements.

From: SHIMASAKI SEIICHI [mailto:seiichi.shimasaki@mofa.go.jp]
Sent: Tuesday, March 22, 2011 6:27 PM
To: LIA03 Hoc
Subject: RE: Arrival Times

Thanks, Danielle,

So, I understand 11 NRC personnel are already in Japan, and 6 more will come to Tokyo?

- Mr. Ulses
- Mr. Trapp

- Mr. Casto
- Mr. Monninger
- Mr. Nakanishi
- Mr. Kolb
- Mr. Foster
- Mr. Smith
- Mr. Foggie
- Mr. Devercelly
- Mr. Cook

How about these 3 people which are listed in the bio. Are they also coming to Tokyo?

Mr. Scott
Mr. Jackson
Mr. Dorman

Above are the following the 6 people on March 25th?

Please let me clarify.

Best,
Shima

From: LIA03 Hoc [mailto:LIA03.Hoc@nrc.gov]
Sent: Tuesday, March 22, 2011 6:11 PM
To: SHIMASAKI SEIICHI
Cc: LIA02 Hoc
Subject: Arrival Times

Hello Shimasaki-San,

Here is the arrival times for the next wave of NRC team members:

1) John Giessner – Arriving 2:15 PM March 25th
2) Robert Taylor – Arriving 4:35 PM March 25th
3) Ralph Way – Arriving 4:35 PM March 25th
4) Syed Ali – Arriving 4:35 PM March 25th
5) Abdul Sheikh – Arriving 4:35 PM March 25th
6) Marie Miller – Arriving 2:15 PM March 25th

Please let us know if you will need any additional information.

NRC International Liaison Team

From: LIA04 Hoc
Sent: Wednesday, March 23, 2011 9:22 PM
To: Virgilio, Rosetta
Cc: Turtil, Richard; OST05 Hoc
Subject: RE: Question: NRC COMMUNICATIONS REGARDING ELEVATED RADIATION LEVELS AT NRC LICENSED NPPs

LT director just said it was okay to contact EPA per ET discussion at ~8:00 pm. Will ensure the appropriate individuals are on cc:

From: Virgilio, Rosetta
Sent: Wednesday, March 23, 2011 9:06 PM
To: LIA04 Hoc
Cc: Turtil, Richard; OST05 Hoc
Subject: RE: Question: NRC COMMUNICATIONS REGARDING ELEVATED RADIATION LEVELS AT NRC LICENSED NPPs

As provided below, would advise to follow LT direction and share info with Federal Liaison and OPA. If not resolved tonight, would need to inform next shift.

From: LIA04 Hoc
Sent: Wednesday, March 23, 2011 8:09 PM
To: Virgilio, Rosetta
Cc: Turtil, Richard; OST05 Hoc; LIA04 Hoc
Subject: Question: NRC COMMUNICATIONS REGARDING ELEVATED RADIATION LEVELS AT NRC LICENSED NPPs

FYI – PMT provided me a contact name at EPA who had me speak with Alisha Johnson - part of their public relations team earlier. We discussed the EPA press release regarding the West Coast plants and air samples but the new issue was rainfall samples at three East Coast plants. Alisha said she would talk to the Emergency Operations Center there but asked for a short write-up. The LT Director asked that I hold off on that follow-up communication because while I was on the phone, PMT was briefing the ET who said the Chairman needed to be informed and a plan of what analysis we would be doing and how to provide the information was needed before we provided information outside the NRC. [RI was also looking for permission to send out a heads up email to the States of the positive samples.

How should the follow-up with EPA be handled? The concern was that the data was from our nuclear power plants and so the perception was that we should be the ones providing a response. PMT is working on the data/NEI part. Federal Liaison had sent me over to PMT initially.

From: Virgilio, Rosetta
Sent: Wednesday, March 23, 2011 7:17 PM
To: Nelson, Robert; Harrington, Holly; Nguyen, Quynh
Cc: Turtil, Richard; LIA04 Hoc; OST05 Hoc
Subject: NRC COMMUNICATIONS REGARDING ELEVATED RADIATION LEVELS AT NRC LICENSED NPPs
Importance: High

Nelson/Holly/Quynh –

What is NRC saying, if anything, with regard to **current** reports of elevated radiation levels found at NRC licensed facilities?

We understand NRR was working on an IN and also heard NEI offered to collect data from licensees.

PPP/483

We anticipate news of elevated levels will hit the streets soon and are looking for an approved NRC message that addresses the issue. Please advise. Thanks much.

Rosetta

From: Virgilio, Rosetta
Sent: Thursday, March 24, 2011 4:00 PM
To: Harrington, Holly
Cc: Turtil, Richard; LIA04 Hoc; OST05 Hoc; Nelson, Robert; Nguyen, Quynh; Barker, Allan; Maier, Bill; Tifft, Doug; Woodruff, Gena; Logaras, Harral; McNamara, Nancy; Trojanowski, Robert; /o=USNRC/ou=First Administrative Group/cn=Recipients/cn=6bd3eb76-62865841-d1d223b9-1e5f5439; Browder, Rachel; Erickson, Randy; Janda, Donna; Lynch, James; Orendi, Monica
Subject: RE: NRC COMMUNICATIONS REGARDING ELEVATED RADIATION LEVELS AT NRC LICENSED NPPs

Thanks, Holly

From: Harrington, Holly
Sent: Thursday, March 24, 2011 3:12 PM
To: Virgilio, Rosetta; Nelson, Robert; Nguyen, Quynh
Cc: Turtil, Richard; LIA04 Hoc; OST05 Hoc
Subject: RE: NRC COMMUNICATIONS REGARDING ELEVATED RADIATION LEVELS AT NRC LICENSED NPPs

Per Eliot, we can say this:

We are aware that minute amounts of radioactive elements have been detected at the very sensitive monitoring equipment at a number of privately owned nuclear plants. The US Government is looking at the best vehicle for reporting to the public this and any other data gathered by government. Nothing detected so far comes anywhere near a level that might concern us. We remain convinced there will be no health impact on the United States.

From: Virgilio, Rosetta
Sent: Wednesday, March 23, 2011 7:17 PM
To: Nelson, Robert; Harrington, Holly; Nguyen, Quynh
Cc: Turtil, Richard; LIA04 Hoc; OST05 Hoc
Subject: NRC COMMUNICATIONS REGARDING ELEVATED RADIATION LEVELS AT NRC LICENSED NPPs
Importance: High

Nelson/Holly/Quynh –

What is NRC saying, if anything, with regard to **current** reports of elevated radiation levels found at NRC licensed facilities?

We understand NRR was working on an IN and also heard NEI offered to collect data from licensees.

We anticipate news of elevated levels will hit the streets soon and are looking for an approved NRC message that addresses the issue. Please advise. Thanks much.

Rosetta

PPP/484

From: LIA02 Hoc
Sent: Thursday, March 24, 2011 10:25 AM
To: LIA03 Hoc; Masse, Todd
Subject: Travelers to Japan

Below is information on travelers to Japan, those there and those going.

Jim Trapp Chief,
Tony Ulses Chief, Reactor Systems Branch
Chuck Casto Deputy Regional Administrator, Region II
John Monninger Deputy Chief-of-Staff, Office of the Chairman
Tony Nakanishi Reactor Systems Engineer, Reactor Systems Branch
Tim Kolb Senior Reactor Engineer, Operator Licensing and Training Branch
Jack Foster Chief, Licensing Branch (FSME)
Bill Cook Senior Reactor Analyst
Richard Devercelly Reactor Technology Instructor, Technical Training Center
Kirk Foggie International Relations Officer

PPP/485

Brooke Smith
International Policy Analyst

RELIEF TEAM - NRC TRAVELERS IN JAPAN

Name
Dan Dorman Deputy Director, NMSS - leaves 3/19
Mike Scott (Acting) Deputy Director, Division of Systems Analysis, RES Leaves 3/22
Alan Blamey, RII Chief of Construction Project Branch Leaves 3/22
Jack Giessner, RIII Branch Chief Division of Reactor Projects Leaves 3/24
Rob Taylor SG Tube Integrity and Chemical Engineering Branch, NRR Leaves 3/24
Todd Jackson Commercial and R&D Branch, DNMS, RI Leaves 3/24
Marie Miller Chief, Material Security and Industrial Branch, RI Leaves 3/24
Syed Ali Senior Level Advisor, Div of Engineering, RES Leaves 3/24
Abdul Sheikh, NRR Leaves 3/24
Ralph Way, Sr Level Advisor, Division of Security Operations, NSIR Leaves 3/24
Danielle Emche, International Relations Specialist, OIP Leaves 3/26

Eric Stahl, International Relations Specialist, OIP
Leaves 3/28

Steve

From: O'Donnell, John
Sent: Thursday, March 24, 2011 12:25 PM
To: LIA03 Hoc
Subject: RE: JAPANESE TRAVELER INFORMATION.docx

Thanks

From: LIA03 Hoc
Sent: Thursday, March 24, 2011 12:17 PM
To: Stahl, Eric; Emche, Danielle; O'Donnell, John
Subject: JAPANESE TRAVELER INFORMATION.docx

As requested,

Lance

PPP 486

From: Leeds, Eric
To: Brown, Frederick
Subject: RE: Presentation from Japan Nuclear Technology Institute to NRR today
Date: Friday, March 25, 2011 6:28:00 PM

Thanks, Fred!

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Brown, Frederick
Sent: Friday, March 25, 2011 5:11 PM
To: RST01 Hoc
Cc: Ruland, William; Skeen, David; Hiland, Patrick; Case, Michael; Dudes, Laura; Uhle, Jennifer; Holian, Brian; Hoc, PMT12
Subject: Presentation from Japan Nuclear Technology Institute to NRR today

RST coordinator – please have these files added to the RST chronology for preservation. PMT may be interested in the second power point presentation.

There are some movies that are too large to e-mail, I'll try to figure out how to transfer them (currently on NRR G: drive in folder "Temp").

They note a large U-3 PV/RCS pressure spike on 3/13 and a primary containment pressure spike on 3/14.

They said that U-1 (none of the units) had a concrete roof – our understanding of the rubble on U-1 is apparently incorrect.

They said that TEPCO does not normally use a checkerboard fuel arrangement for the hot fuel in the pool.

U-1 thru 4 EDGs and switch gear located in ocean side of turbine building in rooms below grade. Totally flooded. The Unit 6 EDG that continued to operate is an air cooled unit. They do not know if the Rx Buildings had any actual flooding.

My impression is that they relied on elevation for flood control (no discussion of water-tight boundaries).

The SW pumps were apparently exposed (tsunami was estimated at 14 meters, with a design basis of 10)

U-1 did have an isolation condenser and no RCIC, the other units did have RCIC. Batteries for RCIC lasted 10 hours.

They believe U-4 explosion from H2, and they have a heat-up "plot" for the SFP showing saturation temperature in less than 2 days from loss of power. They also believe that some reflood would have occurred to refueling gate damage. That said, with this heat-up

PPP 1487

curve, that water would not have lasted long either? They believe that picture 2-17 shows a flooded pool after the explosion.

They were equivocal on the containment vent path used and the "hardened" nature of the vent. The stack is where the venting should have occurred, but they understand that something does not make sense.

They had B5b-like connections that they used for the temporary fire pump tie-in to the primary systems.

Published on Mar.18.2011 : The Denki shinbun(The Electric Daily News)

Dr. Michio Ishikawa
Chief Adviser (Former President & CEO)
Japan Nuclear Technology Institute(JANTI)

Estimation of "Status of reactor cores at Fukushima"

This is my emergency estimation about what could be happening at reactor cores at Fukushima, what could happen next and what actions can be taken, based on the facts and developments at the time of the Three Mile Island nuclear accident.

Please bear in mind that I live in the quake-affected city of Hitachinaka. Three whole days of power blackouts up until March 14 left me incommunicado with the outside world. The only source of information was radio broadcast. I had no idea what was happening in the world until the television came on finally in the evening of March 14. Hence, I am a little short on facts and figures. This article describes a scenario that I have put together based on limited facts. Please excuse me for any minor mistakes.

First of all, the state of reactor cores. Knowledge from the TMI accident indicates that reactor cores behave very differently depending on whether they are under or above the water level. This is a relevant point for Fukushima, so let me go into more detail.

The submerged part of the fuel rods is cooled with water, and can maintain a sound state. There is no argument on this point.

On the other hand, the exposed part of the fuel rods is surrounded by steam, and in a poor condition for heat removal. With the temperature increasing gradually with decay heat, the fuel rods begin reacting with steam at around 900 degrees Celsius, oxidizing claddings. This reaction generates strong heat, causing a localized increase of temperature in the immediate area. At around 1300 degrees Celsius, the reaction becomes more active, and the temperature rise on the claddings becomes unstoppable. The claddings become coated with thin oxide film (zirconium dioxide) on the outside, as well as on the inside due to oxygen removal from fuel pellets (uranium dioxide).

In other words, thin oxide film coats the claddings, made of zircaloy, both inside and out. It should be noted that the oxide film has a higher fusing point than the

cladding material, zircaloy, whose fusing point is approx. 1800 degrees Celsius. When zircaloy melts, it drips down between the films to form a puddle. The oxide films on both sides become fused together and pressed onto fuel pellets with the pressure of the reactor. At this stage, a fuel rod can be likened to fuel pellets wrapped in cling wrap. Oxide film is resilient at high temperature, and seals in radiation even with some disfigurement to the fuel rods, keeping them upright in water. This is why no radiation was released from exposed fuel rods at Fukushima. It was no case of measurement error.

This condition changes at the moment when water is added to the core. Oxide film becomes weaker as the temperature drops, and shrinks when cooled down. Fuel rods disintegrate into individual fuel pellets and collapse (not melting), scattering in the reactor water as if a toy box is tipped over. They can stay scattered in water because the submerged part of fuel rods is still sound. This is what happened at the reactor core in the TMI accident.

Collapsed fuel rods are cooled as long as they are submerged in water, thanks to the cooling effect of water flowing through the debris (communication path). Consequently, fuel pellets stay in the state of debris without melting.

Summing up, the exposed top part of fuel rods generated hydrogen and collapsed, but the debris was kept cool, retaining the pellets' radiation containing effect.

The problem lied with the submerged part of the fuel. Water turns into steam as it cools fuel rods. However, in this case, the flow of steam was blocked with the debris, and could not escape, forming a steam zone immediately below the debris. This created a condition similar to the exposed fuel above water. Under water, heat dissipation performance was substantially worse. Heat from cladding oxidization built up and melted fuel rods, initiating meltdown. However, the meltdown temperature was believed to be around 2300 degrees Celsius, which was the fusing point of the ternary alloy of uranium, zirconium and oxygen, rather than the uranium dioxide's fusing point of 2800 degrees Celsius. This meltdown temperature was not high enough to melt concrete, and therefore could not cause a "China Syndrome" scenario.

Since the underside of the meltdown was touching cooling water, it turned into a hard crust state, much like cast iron. Yet, immediately above that, melted fuel flowed in the side direction, came in contact with the core shroud, made of thin stainless steel, and put holes through it. Fuel that dripped from the holes formed balls measuring 15–20 centimeters in diameter, which were later found at the

bottom of the reactor core.

This is how the core meltdown occurred at TMI. The Fukushima plants are showing similar core behaviors. One of the similarities is the fact that the top 2 meters of fuel rods have become exposed above the reactor water for an extended period of time. Cesium and other fission products were released as a result of fuel rods disintegrating upon the injection of seawater. The formation of hydrogen led to explosions, as has widely been reported. The reactor core at TMI was cooled and stabilized after one week. Fukushima will also be successfully brought under control.

The difference between TMI and Fukushima is the existence of a steam-water separator at the top part of the reactor core, because Fukushima uses the BWR system. This structure serves as resistance to releasing steam from the core to the top part of the pressure vessel. It therefore keeps steam in the core, undermining the injection of seawater. Compared to the example of TMI, BWR has a design that may make it difficult to cool the molten core.

Another difference is the use of channel box in nuclear fuel. This could turn out to be a positive or a negative. Yet, it is not a deciding factor, considering that the core has a similar meltdown behavior. In this article, I assume that the positive offsets the negative.

One more major difference is the fact that TMI's reactor core was stabilized with the use of the primary coolant pump (equivalent to the recirculation pump at Fukushima). With PWR, the primary cooling system is clearly separated and insulated from the turbine system. A turbine condenser, which has a high cooling capacity, would never suffer radiation contamination with the activation of a primary coolant pump. This powerful cooling ability successfully halted the meltdown and stabilized the core.

However, with BWR, simply activating a recirculation pump would do no more than agitating the reactor water unless a condenser is also used. The pump alone does not contribute to lowering the core temperature. However, using the condenser runs the risk of sending highly contaminated reactor cooling water to the turbine building, which has only limited shielding facilities. Whether the authorities can make this decision marks a turning point in the on-going efforts to bring the reactors to stability.

The three functions of nuclear safety are to "shut down", "cool down" and "contain". This also represents the order of importance in these safety actions. At Fukushima, all reactors shut down. The next step is to cool them down. For this

purpose, motor power to send water is needed more than anything else. The installation of temporary power source is the task of utmost urgency.

Let me move on to the issue of hydrogen explosions. Such an explosion also rocked the TMI accident. A massive explosion occurred in the containment vessel some ten hours after the accident started. The amount of hydrogen involved in the explosion, according to the post-accident calculation, was equivalent to the amount generated if about half of the fuel claddings became oxidized. This corresponds to the case at Fukushima Daiichi Unit-1 and Unit-3, where fuel rod exposure was reported to be about 50%. In the case of TMI, there was no damage to the containment vessel. In Fukushima, explosions occurred outside the containment vessels, destroying reactor buildings.

In the TMI accident, approx. 1,000 area residents became exposed to radiation at the rate of up to 100 mrem (1 mSv), and 1 mrem (0.01 mSv) on average. The level of radiation when the ventilation operation was conducted to depressurize the containment vessel, was reported to be approx. 1.2 rem (12 mSv) in the skies above the station site, which is similar to the level recorded at the time of ventilation at Fukushima. The radiation dose recorded in the skies above Fukushima Daiichi Unit-4, is said to be 400 mSv. This is because of the loss of water in the spent fuel storage pool, and is set to decrease once the water level is restored. It is still not impossible to keep radiation leak to a minimum in Fukushima, just as in the case with TMI.

Slightly off the topic, there are some people who call the Fukushima case as another Chernobyl. It is unclear what their arguments are. As far as radiation emergency is concerned, there is no possibility that the Fukushima case could cause contamination of the international scale experienced at Chernobyl. This is because of the absence of a graphite fire, which sent radiation high into the air to reach the jet stream. In addition, the low temperature of cooling water means only the radioactive materials with a low boiling point, such as noble gas and iodine, could be released into the atmosphere. The situation is nothing like what happened at Chernobyl.

This summarizes my estimation of the state of accident at Fukushima Daiichi Nuclear Power Station's Units-1–3. I have nothing but respect for all the personnel who continue to fight the desperate fight to bring the plant under control and alleviate the extent of the emergency under the current condition with all power sources swept away in the Tsunami. It is regrettable that the situation has escalated to explosions and damage of reactor buildings. Another task still

remains to stabilize the reactors. I wish to send my support for those people on the frontline. Situations change in emergencies like this every minute. I am prepared to provide as much cooperation as possible despite my old age.

(wrote on Mar.15.2011)

Attachment Accident at Fukushima Daiichi (..1) rev.2 2011.ppt (9298944 Bytes) cannot be converted to PDF format.

Attachment Accident at Fukushima Daiichi (..2) rev.2 2011.ppt (1439744 Bytes) cannot be converted to PDF format.

RFL

From: OPA Resource

To: Ash, Darren; Barkley, Richard; Batkin, Joshua; Bell, Hubert; Belmore, Nancy; Bergman, Thomas; Bollwerk, Paul; Bonaccorso, Amy; Borchardt, Bill; Bozin, Sunny; Brenner, Eliot; Brock, Terry; Brown, Boris; Bubar, Patrice; Burnell, Scott; Burns, Stephen; Carpenter, Cynthia; Chandrathil, Prema; Clark, Theresa; Collins, Elmo; Couret, Ivonne; Crawford, Carrie; Cutler, Iris; Dacus, Eugene; Dapas, Marc; Davis, Roger; Dean, Bill; Decker, David; Dricks, Victor; Droggitis, Spiros; Flory, Shirley; Franovich, Mike; Gibbs, Catina; Haney, Catherine; Hannah, Roger; Harbuck, Craig; Harrington, Holly; Hasan, Nasreen; Hayden, Elizabeth; Holahan, Gary; Holahan, Patricia; Holian, Brian; Jacobssen, Patricia; Jaczko, Gregory; Jasinski, Robert; Jenkins, Verlyn; Johnson, Michael; Jones, Andrea; Kock, Andrea; Kotzalas, Margie; Ledford, Joey; Lee, Samson; Leeds, Eric; Lepre, Janet; Lew, David; Lewis, Antoinette; Loyd, Susan; Magwood, William; McCrary, Cheryl; McGrady-Finneran, Patricia; McIntyre, David; Mensah, Tanya; Mitlyng, Viktoria; Monninger, John; Montes, David; Nieh, Ho; Ordaz, Vonna; Ostendorff, William; Owen, Lucy; Powell, Amy; Quesenberry, Jeannette; Reddick, Darani; Regan, Christopher; Reyes, Luis; Riddick, Nicole; RidsSecyMailCenter Resource; Riley (OCA), Timothy; Rohrer, Shirley; Samuel, Olive; Satorius, Mark; Schaaf, Robert; Schmidt, Rebecca; Scott, Catherine; Screnci, Diane; Shaffer, Vered; Shane, Raeann; Sharkey, Jeffry; Sheehan, Neil; Sheron, Brian; Siurano-Perez, Osiris; Steger (Tucci), Christine; Svinicki, Kristine; Tabatabai, Omid; Tannenbaum, Anita; Taylor, Renee; Temp, WDM; Thomas, Ann; Uhle, Jennifer; Uselding, Lara; Vietti-Cook, Annette; Virgilio, Martin; Virgilio, Rosetta; Walker-Smith, Antoinette; Weaver, Doug; Weber, Michael; Weil, Jenny; Werner, Greg; Wiggins, Jim; Williams, Evelyn; Zimmerman, Roy; Zorn, Jason

Subject: Press Release Being Published Shortly

Date: Sunday, March 13, 2011 2:23:40 PM

Attachments: 11-046.docx

Press Release – NRC Sees No Radiation At Harmful Levels Reaching U.S.

NRC NEWS

U.S. NUCLEAR REGULATORY COMMISSION
Office of Public Affairs Telephone: 301/415-8200
Washington, D.C. 20555-0001
E-mail: opa.resource@nrc.gov Site: www.nrc.gov
Blog: http://public-blog.nrc-gateway.gov

No. 11-046 March 13, 2011

NRC SEES NO RADIATION AT HARMFUL LEVELS REACHING U.S. FROM DAMAGED JAPANESE NUCLEAR POWER PLANTS

The Nuclear Regulatory Commission is coordinating with the Department of Energy and other federal agencies in providing whatever assistance the Japanese government requests as they respond to conditions at several nuclear power plant sites following the March 11 earthquake and tsunami. The NRC has sent two boiling-water reactor experts to Japan as part of a U.S. Agency for International Development team.

In response to nuclear emergencies, the NRC works with other U.S. agencies to monitor radioactive releases and predict their path. All the available information indicates weather conditions have taken the small releases from the Fukushima reactors out to sea away from the population. Given the thousands of miles between the two countries, Hawaii, Alaska, the U.S. Territories and the U.S. West Coast are not expected to experience any harmful levels of radioactivity.

During a nuclear event the NRC has requirements to protect populations around reactors. For instance, the U.S. evacuation standard at 10 miles is roughly equivalent to the 20-kilometer distance recommended in some instances in Japan. The United States also uses sheltering in place and potassium iodide, protective measures also available in Japan.

The NRC will not comment on hour-to-hour developments at the Japanese reactors. This is an ongoing crisis for the Japanese who have primary responsibility.

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News releases are available through a free *listserv* subscription at the following Web address: http://www.nrc.gov/public-involve/listserver.html. The NRC homepage at www.nrc.gov also offers a SUBSCRIBE link. E-mail notifications are sent to subscribers when news releases are posted to NRC's website.

From:	Leeds, Eric
To:	Dean, Bill; Lew, David; McCree, Victor; Wert, Leonard; Satorius, Mark; Pederson, Cynthia; Collins, Elmo; Howell, Art
Cc:	Boger, Bruce; Ruland, William
Subject:	FW: NRR Comm Team SitRep - 3/25
Date:	Friday, March 25, 2011 6:36:00 PM

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

From: Nelson, Robert
Sent: Friday, March 25, 2011 3:58 PM
To: Leeds, Eric; Grobe, Jack; Boger, Bruce; Burnell, Scott; LIA06 Hoc; Roberts, Darrell; Kennedy, Kriss; Lara, Julio; Croteau, Rick; Landau, Mindy; Steger (Tucci), Christine; Bahadur, Sher; Blount, Tom; Brown, Frederick; Cheok, Michael; Evans, Michele; Ferrell, Kimberly; Galloway, Melanie; Giitter, Joseph; Givvines, Mary; Hiland, Patrick; Holian, Brian; Howe, Allen; Lee, Samson; Lubinski, John; McGinty, Tim; Quay, Theodore; Ruland, William; Skeen, David; Thomas, Brian
Cc: West, Steven; Shear, Gary; Craver, Patti; Markley, Michael; Nguyen, Quynh; Meighan, Sean; Oesterle, Eric; Thomas, Eric; Broaddus, Doug; Campbell, Stephen; Carlson, Robert; Chernoff, Harold; Kulesa, Gloria; Pascarelli, Robert; Salgado, Nancy; Simms, Sophonia; Wall, Scott
Subject: FYI: NRR Comm Team SitRep - 3/25

See e-mail below which has been our principal focus over the last two days. In addition:

1. Completed screening of 5 potentially sensitive licensing actions (9 TACs) – result was normal processing for each.
2. Regions have identified a POC in each region for 2.206 petitions
3. Responded to several quick-turnaround Qs & As
4. Based on discussions with Patti Craver, no additional guidance was determined to be necessary for the AP FOIA.

NELSON

From: Oesterle, Eric
Sent: Friday, March 25, 2011 3:04 PM
To: Nelson, Robert
Cc: Markley, Michael
Subject: FYI: NRR Q&A Database Status Update for 3/25/11

Nelson,

1) Q&A Database operational as of 3/25/11; located on NRR/DORL/March 11 Japan Earthquake and Tsunami Sharepoint page (is separate from NRR TA Sharepoint page)
2) Coordinated usability of Q&A Database with OPA..."good start and very helpful"
3) Populated Q&A Database with 34 OPA approved Q&As so far (includes 3/23 file of OPA approved Q&As and 3 additional approved Q&As from 3/25)

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4) Added OPA approved Q&As associated with Price-Anderson Act to NRR Q&A Database
5) Updated WORD document list of OPA approved Q&As under Japan Event Information on NRR Sharepoint page
6) Working on consolidating and categorizing Q&As from OPA Q&As (3/15 file), Chairman's Capitol Hill Briefing (3/17 file), and FAQ's on Japan Event (3/21 file)
7) Working on consolidating Q&As from 3/21 Commission Briefing and getting OPA approval

Eric

Eric R. Oesterle
NRR Communications Team
Senior Policy Analyst (NRO/DNRL)

From: Leeds, Eric
To: Borchardt, Bill; Virgilio, Martin; Weber, Michael
Cc: Holahan, Patricia; Wiggins, Jim; Evans, Michele; Cohen, Miriam
Subject: Closing the loop - addressing PACOM needs
Date: Friday, March 25, 2011 11:47:00 AM

Trish Holahan and I met with several folks from DNI. The short version:

The Pacific Command is charged with evacuating all US personnel from Japan in the highly unlikely scenario that events at Fukushima degrade to that extent. They're looking for a link with the NRC that would provide them the radiological situational awareness/protective action recommendation that will keep them informed. We suggested a daily brief of the PACOM personnel in Hawaii by our PMT Director/staff on the current radiological conditions at Fukushima with projections for the next 24 hours. Of course, we would alert them if the conditions degraded between scheduled calls.

They seemed VERY happy with that arrangement and Trish and her staff will work with them and the PMT Director to set up the call. I informed the current ET Director and he was adding it to the list of daily calls/meetings. No need for the NRC to send anyone to Honolulu.

Let me know if you have questions.

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
301-415-1270

ppp/489

From:	Cheok, Michael
To:	Brown, Frederick; Westreich, Barry; Holian, Brian; Galloway, Melanie; Giitter, Joseph; Nelson, Robert; Howe, Allen; Skeen, David; Hiland, Patrick; Ruland, William; Bahadur, Sher
Cc:	Leeds, Eric
Subject:	Meeting with JANTI (the Japanese version of INPO) at 2:30pm today - participation requested
Date:	Friday, March 25, 2011 1:11:41 PM

Eric will be meeting with members of JANTI today from 2:30 to 3:00pm. Apparently this meeting came about rather abruptly, so the topics of discussion are not known (Japanese earthquake status may be one). Chairman Jaczko may also drop in.

If available, Eric would like one SES member from DIRS, DRA, DLR, DORL, DE and DSS to be present. (If not available, Eric is also OK with this.) The meeting location is O13D20. Thanks.

Mike

PPP/490

From: Nuclear Plant Journal
To: Leeds, Eric
Subject: NPJ E-News March 25, 2011 Fukushima Update
Date: Friday, March 25, 2011 7:21:38 PM

Having trouble viewing this email? Click here

Nuclear Plant Journal E-News

Japan Update
March 25, 2011

Dear ERIC J,
In this issue of NPJ E-News you'll find an update of the Fukushima Nuclear Plants in Japan. Information is current as of March 25, 2011, 17:00 CDT. All items are directly quoted, without any editing.

In this issue

TEPCO Update

IAEA DG Visit

Status Document

NISA Radionuclide Update

TEPCO Update

From the TEPCO website:

- From 7:05 PM to 10:07 PM, Mar 25, water discharge by concrete pumping vehicle to the spent fuel pool of Unit 4 was conducted.
- We measured radioactive materials (iodine etc.) inside of the nuclear power station area (outdoor) by monitoring car and confirmed that radioactive materials level is getting higher than ordinary level. As listed below, we have determined that specific incidents stipulated in article 15, clause 1 of Act on Special Measures Concerning Nuclear Emergency Preparedness (Abnormal increase in radiation dose measured at site boundary) have occurred.

Click for more...

IAEA DG Visit (JAIF)

- On the afternoon of March 18, Director General Yukiya Amano of the International Atomic Energy Agency (IAEA) spoke at the Japan National Press Club. He was making an emergency visit to Japan following the nuclear accidents caused by the Tohoku-Pacific Ocean Earthquake occurred on March 11 and subsequent giant tsunami. Click for more...

PRP/491

JAIF Status Update
A PDF document provides a simple summary of each of the units at Fukushima nuclear power plants. This is a multi-page document that also provides a chronology of events and a map that details the status of each of the Japanese nuclear units.

NISA Nuclear and Industrial Safety Agency

This PDF file provides concentration measurements of radionuclides in the stagnant water on the basement floor of the turbine building of Unit 1 of Fukushima Dai-ichi Nuclear Power Station.

Quick Links...

- NPJ Website
- Cost-free Subscription (to NPJ)
- JAIF
- TEPCO
- NISA
- U.S. NRC Actions on Japan

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From: David Saunders
To: Leeds, Eric
Subject: Nuclear power in the UK; what is the future?
Date: Friday, March 25, 2011 6:38:22 AM

Dear Mr Leeds,

It is too early to know exactly how the crisis in Japan will impact nuclear power in the UK. However there is no doubt that the industry faces some of its most challenging months ahead. While there will be many lessons to learn from recent events, the pressing issues of climate change and energy security have not gone away. It is more important than ever that the nuclear industry is open in its response as it discusses the challenges ahead.

The ***Nuclear Industry Forum*** programme is being updated to address developments in Japan and the response in the UK. It will give you an opportunity to hear from nuclear safety regulators, the Government and all three of the developers of the nuclear new build programme, as well as discuss the important issues of waste management and decommissioning. **View the current conference programme here**.

Speakers include:

- **Humphrey Cadoux-Hudson,** Managing Director Nuclear New Build, **EDF Energy**
- **Alan Raymant,** Chief Operating Officer, **Horizon Nuclear Power**
- Senior representative, **NuGen**
- **Mark Higson,** Chief Executive, **Office for Nuclear Development**
- **Sir Michael Pitt,** Chair, **Infrastructure Planning Commission**
- **Dieter Helm,** Professor of Energy Policy, **University of Oxford**
- **Paul Barclay,** New Builds Executive Vice President, **AREVA**
- **Dr Rita C Bowser,** Vice President, Major Projects (Europe, Middle East and Africa), **Westinghouse**
- **Kevin Allars,** Director for Nuclear New Build, **HSE Nuclear Directorate**
- **Steve Barlow,** Head of Assessments, **NDA**
- **Phil Sprague,** Site Director, Oldbury, **Magnox North**

Register before 6th May and save £150

The *Nuclear Industry Forum* is taking place on 15th & 16th June at the Hilton Tower Bridge, London. For more details, please do not hesitate to contact us:

Telephone:	Email:	Website:
+44 (0) 20 7760 8699	conferences@marketforce.eu.com	www.marketforce.eu.com/nuclear

Or you can arrange for us to call you back.

Kind regards,

David Saunders
Managing Director, **Marketforce**

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From:	Giitter, Joseph
To:	Nelson, Robert
Cc:	Leeds, Eric; Zimmerman, Roy; McDermott, Brian; Boger, Bruce; Grobe, Jack
Subject:	Need your help
Date:	Friday, March 25, 2011 5:44:08 PM

Nelson- The operations center is receiving an increasing number of requests from various sources (site team, Congressional staff, etc.) that are being referred to the line organizations—e.g., questions from Congressional staff on what NRC inspectors are doing to verify licensee walkdowns per the INPO request. We need to come up with a means of transferring those actions to the line organization so that they get prioritized, tracked and closed out. There also need to for a communication loop back to the Op Center on the who has the action for closeout. I would appreciate your thoughts on a process for making this happen. Maybe CPAB could help. Eventually the response to the Fukushima event will transition out from Operations Center to the line organization so it is important that we start to work on this now.

PPP/493

From: Erickson, Randy
Sent: Friday, March 25, 2011 9:01 PM
To: OST05 Hoc
Subject: Out of Office: Revised USNRC Earthquake-Tsunami Update -- 1800 EDT, March 25, 2011

I will be out of the office beginning at 5 pm on Friday, March 25th and won't return until 7 am on Monday, April 11th.

I will be checking email while I'm out and will respond to your messages as I'm available. I will not be checking voice messages.

If you prefer to talk to someone, you can call Rachel Browder at 817-860-8116 or you can email her at Rachel.Browder@nrc.gov.

If Rachel is not available and you can also call Chuck Cain at 817-860-8186 or you can reach him by email at Chuck.Cain@nrc.gov.

If you are unable to reach either of them, you can push "0" and you will be transferred to a secretary who can assist you with reaching someone who can help you.

Lastly, if you are reporting an event or have an emergency situation, please call the Headquarters Operations Officer (HOO) at (301) 816-5100 and they can assist you.

PPP 494

From: Browder, Rachel
Sent: Friday, March 25, 2011 9:01 PM
To: OST05 Hoc
Subject: Out of Office: Revised USNRC Earthquake-Tsunami Update -- 1800 EDT, March 25, 2011

I will be out of the office until Monday, March 28th. If you need immediate assistance, please contact Randy Erickson x143. If he is not available, please press "0" and you'll be transferred to a secretary who can assist you.

ppp/495

From: LIA04 Hoc
Sent: Friday, March 25, 2011 12:47 PM
To: McNamara, Nancy
Subject: RE: Request for Consideration

Nancy,

The request has been discussed with OIP and OPA and it was determined that a Talking Point will not developed.

From: McNamara, Nancy
Sent: Wednesday, March 23, 2011 2:30 PM
To: LIA04 Hoc; OST05 Hoc
Cc: Tifft, Doug; Maier, Bill; Logaras, Harral; Trojanowski, Robert; Barker, Allan; Turtil, Richard
Subject: Request for Consideration

Our states are still struggling with answering questions concerning the NRC making a PAR. One of the many concerns by the States is that during an event in the US, the NRC would publically issue a PAR disagreeing with the State's Protective Action Decision without discussing our disagreement with the State first. We all know that in theory, the expectation during a real event is that when the NRC is informed of the State's PAD and should we disagree with that PAD we would discuss it with the Governor or lead decision maker prior to going to the public.

However, the perception on the recent issuance of the PAR is that the NRC worked in a vacuum and did not coordinate our decision and public issuance with the Japanese Govt. I don't believe this was the case. I understand we had discussions with the Japanese Gov't and there was a mutual understanding between the US and Japan of our intentions.

We believe it would helpful to our States if we can tell them that the process worked the same as would be expected to occur during a US event. Can we do that? If so, what would be the talking point?

PPP/496

From: Turtil, Richard
Sent: Friday, March 25, 2011 3:41 PM
To: Rivera, Alison; Rautzen, William; Maupin, Cardelia; Virgilio, Rosetta; Noonan, Amanda; Lukes, Kim; Flannery, Cindy; Ryan, Michelle; Easson, Stuart; LIA04 Hoc; OST05 Hoc
Cc: Piccone, Josephine; Jackson, Deborah
Subject: RE: State Liaison desk schedule for 3/27-4/9

One caveat... Cindy may try to negotiate with Cardelia to switch Monday and Wed... Cindy has some meetings she believes are important that she attend on Wed. She could take Cardelia's place on Monday, and Cardelia could take the Wed morning shift. But I'll let them confer on this.

Rich

From: Rivera, Alison
Sent: Friday, March 25, 2011 3:18 PM
To: Rautzen, William; Maupin, Cardelia; Virgilio, Rosetta; Turtil, Richard; Noonan, Amanda; Rivera, Alison; Lukes, Kim; Flannery, Cindy; Ryan, Michelle; Easson, Stuart; LIA04 Hoc; OST05 Hoc
Cc: Piccone, Josephine; Jackson, Deborah
Subject: State Liaison desk schedule for 3/27-4/9

Attached please find the current schedule for the State Liaison desk in the Operations Center for the next two weeks.

Thanks, Alison

Alison L. Rivera
Technical Assistant, FSME/DILR
301-415-5108
Office: T8-F36a
Mailstop: T8-F42
Alison.Rivera@nrc.gov

PPP/497

From: PMT11 Hoc
Sent: Friday, March 25, 2011 12:19 PM
To: Nasstrom1@llnl.gov
Cc: Hoc, PMT12
Subject: Assumed Core Inventory for Low Enriched Uranium Fuel Operating Core
Attachments: Assumed Core Inventory for Low Enriched Uranium Fuel Operating Core.pdf

As requested

PPP/498

Assumed Core Inventory for Low Enriched Uranium Fuel Operating Core

Nuclide	Core Inventory Ci/MWt	Inventory for 2350 MWt	Nuclide	Core Inventory Ci/MWt	Inventory for 2350 MWt	Nuclide	Core Inventory Ci/MWt	Inventory for 2350 MWt
Ba-139	4.74e+04	1.11E+08	La-141	4.33e+04	1.02E+08	Te-127	2.36e+03	5.55E+06
Ba-140	4.76e+04	1.12E+08	La-142	4.21e+04	9.89E+07	Te-127m	3.97e+02	9.33E+05
Ce-141	4.39e+04	1.03E+08	Mo-99	5.30e+04	1.25E+08	Te-129	8.26e+03	1.94E+07
Ce-143	4.00e+04	9.40E+07	Nb-95	4.50e+04	1.06E+08	Te-129m	1.68e+03	3.95E+06
Ce-144*	3.54e+04	8.32E+07	Nd-147	1.75e+04	4.11E+07	Te-131m	5.41e+03	1.27E+07
Cm-242	1.12e+03	2.63E+06	Np-239	5.69e+05	1.34E+09	Te-132	3.81e+04	8.95E+07
Cs-134	4.70e+03	1.10E+07	Pr-143	3.96e+04	9.31E+07	Xe-131m	3.65e+02	8.58E+05
Cs-136	1.49e+03	3.50E+06	Pu-241	4.26e+03	1.00E+07	Xe-133	5.43e+04	1.28E+08
Cs-137*	3.25e+03	7.64E+06	Rb-86	5.29e+01	1.24E+05	Xe-133m	1.72e+03	4.04E+06
I-131	2.67e+04	6.27E+07	Rh-105	2.81e+04	6.60E+07	Xe-135	1.42e+04	3.34E+07
I-132	3.88e+04	9.12E+07	Ru-103	4.34e+04	1.02E+08	Xe-135m	1.15e+04	2.70E+07
I-133	5.42e+04	1.27E+08	Ru-105	3.06e+04	7.19E+07	Xe-138	4.56e+04	1.07E+08
I-134	5.98e+04	1.41E+08	Ru-106*	1.55e+04	3.64E+07	Y-90	2.45e+03	5.76E+06
I-135	5.18e+04	1.22E+08	Sb-127	2.39e+03	5.62E+06	Y-91	3.17e+04	7.45E+07
Kr-83m	3.05e+03	7.17E+06	Sb-129	8.68e+03	2.04E+07	Y-92	3.26e+04	7.66E+07
Kr-85	2.78e+02	6.53E+05	Sr-89	2.41e+04	5.66E+07	Y-93	2.52e+04	5.92E+07
Kr-85m	6.17e+03	1.45E+07	Sr-90	2.39e+03	5.62E+06	Zr-95	4.44e+04	1.04E+08
Kr-87	1.23e+04	2.89E+07	Sr-91	3.01e+04	7.07E+07	Zr-97*	4.23e+04	9.94E+07
Kr-88	1.70e+04	4.00E+07	Sr-92	3.24e+04	7.61E+07			
La-140	4.91e+04	1.15E+08	Tc-99m	4.37e+04	1.03E+08			

Source Table 1.1 Assumed Core Inventory During Operation for Low Enriched Uranium Fuel from RASCAL 4: Description of Models and Methods, *corrected for a 2350 MWt core*

From: ET07 Hoc
Sent: Friday, March 25, 2011 1:27 PM
To: Evans, Michele
Subject: RE: staffing

I'll be here. Thanks.

From: Evans, Michele
Sent: Friday, March 25, 2011 1:27 PM
To: ET07 Hoc
Subject: RE: staffing

Ok. I have a 1:30, so 1:45.

From: ET07 Hoc
Sent: Friday, March 25, 2011 1:11 PM
To: Evans, Michele
Subject: staffing

The PMT folks have some concerns on staffing – next time you are in the Ops Center, can you stop by so we can finalize a path forward?

Thanks,
Jane

PPP/499

From: ET07 Hoc
Sent: Friday, March 25, 2011 8:40 AM
To: LIA01 Hoc; Hoc, PMT12; RST01 Hoc
Cc: FOIA Response.hoc Resource
Subject: Saturday expectations (briefing)

The ET has decided to move the CA brief to 8 am, and would like an update from each team director at 7:30 am.

PPP/550