NRC F	DRM 464 Part I U.S. NUCLEAR REGULATORY COMMISSION	FOIA/PA	RESPONSE NUMBER		
(6-1998) - ور	RESPONSE TO FREEDOM OF INFORMATION ACT (FOIA) / PRIVACY ACT (PA) REQUEST	2010-0116	9		
STATE	RESPONSE TO FREEDOM OF				
<u>a</u>	INFORMATION ACT (FOIA) / PRIVACY	RESPONSE FINAL	PARTIAL		
	ACT (PA) REQUEST	TYPE	V / / / / / / /		
REQUE	STER Mary Olson	SEP 2 0 2010			
	PART I INFORMATION RELEASE	ED .			
	No additional agency records subject to the request have been located.		·		
	Requested records are available through another public distribution program.	See Comments section.			
	Agency records subject to the request that are identified in th public inspection and copying at the NRC Public Document R	e listed appendices are alread oom.	y available for		
V	Agency records subject to the request that are identified in the public inspection and copying at the NRC Public Document F	e listed appendices are being oom.	made available for		
	Enclosed is information on how you may obtain access to and the charges fo Document Room, 11555 Rockville Pike, Rockville, MD 20852-2738.	copying records located at th	e NRC Public		
V	APPENDICES P Agency records subject to the request are enclosed.				
	Records subject to the request that contain information originated by or of intereferred to that agency (see comments section) for a disclosure determination	erest to another Federal agend and direct response to you.	cy have been		
V	We are continuing to process your request.				
	See Comments.				
	PART I.A FEES				
	You will be billed by NRC for the amount listed. None. Minimum fee threshold not met.				
L	You will receive a refund for the amount listed. Fees waived. * See comments				
	details				
	PART I.B INFORMATION NOT LOCATED OR WITHHEL	D FROM DISCLOSURE			
	No agency records subject to the request have been located.				
	Certain information in the requested records is being withheld from disclosure the reasons stated in Part II.	,			
	This determination may be appealed within 30 days by writing to the FOIA/PA Washington, DC 20555-0001. Clearly state on the envelope and in the letter	Officer, U.S. Nuclear Regula that it is a "FOIA/PA Appeal."	ory Commission,		
	PART I.C COMMENTS (Use attached Comments contin				
The in	ncoming FOIA/PA-2010-0116 request is located in ADAMS at ML100290	385.			
		,			
SIGNAT	SIGNATURE - FREEDOM OF INFORMATION ACT AND PRIVACY ACT OFFICER				
Donna	Donna L. Sealing				

APPENDIX P RECORDS RELEASED IN THEIR ENTIRETY

<u>NO.</u>	DATE	DESCRIPTION/(PAGE COUNT)/EXEMPTIONS
1	Undated	Exhibit1 Erlin Hime Petro (3 Pages)
2	Undated	5.3 Exhibit 2 ACI 515.1 R (7 Pages)
3	Undated	5.3 Exhibit 3 Item #101 (1Page)
4	Undated	5.6 Exhibit 4 Surveillance (6 Pages)
5	Undated	5.7 Exhibit 1 permeability v w2c (1 Page)
6	Undated	5.8 Exhibit 7 Petrographic CTL (4 Pages)
7	Undated	6.2 Exhibit 1 Subsection IWL (14 Pages)
8	Undated	6.2 Exhibit 2 Wire Material (2 Pages)
9	Undated	6.2 Exhibit 3 Strain Along Wire (1 Page)
10	Undated	Item 136 1992 BS Event Strip Chart (1 Page)
11	Undated	EC ED 62366RO.doc (5 Pages)
12	Undated	SP 178 Rev 28 (1 Page)
13	Undated	SP 178 Rev 28 50.59 (4 Pages)
14	Undated	SP 178 Rev 28 205 (1 Page)
15	Undated	Item 108 Purge Fan Event (5 Pages)
16	Undated	Vacuum Calculation (1 Page)
17	Undated	9.1 Ex 1 FSAR Section 05_2 (6 Pages)
18	Undated	9.3 Exhibit 1 Gilbert Study 1.2.11 (11 Pages)
19	Undated	9.3 Exhibit 2 FSAR CH 2 Selected Pages (9 Pages)
20	Undated	9.3 Exhibit 4 Containment Exterior Surface (4 Pages)
21	Undated	Request #7 NRC SIT (1 page)
22	Undated	Containment Opening Tendon Removal Timeline (2 Pages)
23	Undated	R16 Tendon Detensioning Sequence (1 Page)
24	Undated	Request #9 NRC SIT (2 Pages)
25	Undated	Request #22 NRC SIT (1 Page)
	T-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Engineering Change Package 75220, Rv 0; REACTOR BUILDING
26	Undated	CONCRETE PLACEMENT (321 Pages)
		Engineering Change Package 75218, Rev 0; REACTOR BUILDING
27	Undated	DELAMINATION REPAIR - PHASE 2 DETENSIONING TENDONS
	Ondatoa	(636 Pages)Information blocked out in the record was received
	****	by the NRC with information already removed.
00	Lindoted	Engineering Change Package 75219, Rev 0; REACTOR BUILDING
28	Undated	DELAMINATION REPAIR – PHASE 3 CONCRETE REMOVAL (179
	11 1 1	Pages)
29	Undated	CTMT DETAIL COMPARISON.pdf (3 Pages)
30	Undated	Request 16.docx (1 Page)
31	Undated	Request 10.docx (1 Page)
32	Undated	Request 11.docx (2 Pages)
33	Undated	Petrographic Studies of Concrete for Construction Engineering
<u> </u>		Consultants (5 pages)
34	Undated	Questions pertaining to PGN procedure PT-407T, Reactor Building
L		Concrete Examination and Testin, Revision 2 (2 Pages)
35	Undated	EC 603016 Attachment Z10R24 (1 Page)
36	Undated	NCR 358948 – part (Adverse Cond Correct & Trend Form).doc (1
		Page)
37	Undated	NCR 358724 (Orginal NCR).doc (3 Pages)
38	Undated	PT0407T (Special Procedure – Rx Bldg Concrete Examination & Testing).pdf (37 Pages)
39	Undated	SP0178.pdf (207 Pages)
		Crystal River Unit 3 Containment
.40	Undated	Delamination Investigation Report
,		(20 pages)
41	Undated	Crystal River 3 SGR Action Plan (2 pages)
41	Undated	

		FOIA-2010-0116
42	Undated	Licensee Drawing SC-421-036 (1 page)
43	Undated	Licensee Drawing SC421-032 (1 page)
44	Undated	Permeability FM 5.8 Exhibit 6 (1 page)
45	Undated	Picture of crack on right edge of wall (1 page)
46	3/17/10	5.2 Salt Water Related (1 Page)
47	3/17/10	5.5 Corrosion Rebar (2 Pages)
48	3/17/10	5.7 Physical Attack (2 Pages)
		8.2 Thermal Stresses Containment Spray FSAR Section 5 87 (1
49	3/17/10	Page)
50	3/17/10	8.3 Effect of Faster Pressurization (1 Page)
51	3/17/10	8.4 Inadequate Concrete Structure (1 Page)
52	3/17/10	9.1 Hurricanes or Tornadoes (1 Page)
53	3/17/10	9.2 Seismic Events (1 Page)
54	3/17/10	9.3 Ground Movement (1 Page)
55	3/12/10	7.6 Vibration Due to Cutting Tendons (36 Pages)
56	3/8/10	Mar 8 PNSC De Tensioning Briefing (33 Pages)
57	3/4/10	6.1 Uneven Force Along Tendon (63 Pages)
58	3/3/10	Mar 3 PNSC De Tensioning Briefing P1 (53 Pages)
59	2/25/10	7.11 Added Stress from Pulling Tendons (30 pages)
60	2/23/10	6.3 Thermal Effects of Greasing (71pages)
61	2/19/10	7.9 Inadequate Hydro Blasting Nozzles Rate part 1 (36 pages)
62	2/19/10	7.9 Inadequate Hydro Blasting Nozzles Rate part 2 (11 pages)
63	2/19/10	7.9 Inadequate Hydro Blasting Nozzles Rate part 3 (55 pages)
64	2/19/10	7.10 Hydrodemolition Induced Cracking (80 pages)
65	2/18/10	7.8 Excessive Water Jet Pressure part 1 (34 pages)
66	2/18/10	7.8 Excessive Water Jet Pressure part 2 (18 pages)
67	2/18/10	7.8 Excessive Water Jet Pressure part 3 (53 pages)
68	2/7/10	7.2 Vibration Induced by Hydro Blasting Part 1 (27 pages)
69	2/7/10	7.2 Vibration Induced by Hydro Blasting Part 2 (23 pages)
70	10/6/09	Email – Subject: October 6 2009 Licensee Pictures (17 Pages)
71	2/6/10	6.4 Rigid and Flexible Sleeves (66pages)
72	2/3/10	6.6 Original Tensioning T(2) (71 pages)
73	2/2/10	6.5 Inadequate RetensioningT1 (75 pages)
74	2/1/10	Containment Pressure Testing Method.pdf (1 Page)
75	1/30/10	5.7 Exhibit 7 winter 2002-2010 (7 Pages)
76	1/29/10	Email – Subject: Detensioning sequence spreadsheets (6 Pages)
	11/23/09	2.8 Inadequate Support of Tendons during Pouring (7 pages)
,		Email – From: Dyksterhouse, Don [don.dyksterhouse@pgnmail.com] to: Lake, Louis dated
		Wednesday, January 27, 2010 7:57 AM
		Subject: Design Basis Calculations
78	1/27/10	Attachments: 0102-0135-02 concrete strength and elastic modulus
[r0 final.pdf; 0102-0135-03_r0_final.pdf; 0102-0135-04 FE Model
		Description signed.pdf; 0102-0135-05 Conduit Local Stress Analysis
		signed (2) pdf; 0102-0135-07 concrete moment capacity load r0
	1/00/10	(2).pdf; 0102-0135-08 seismic wind tornado r0.pdf (159 Pages)
79	1/23/10	Subject: FW: Design Basis Calculations (126 pages)
80	1/22/10	Detensioning Sequence – Case 10 (1 page)
81	1/22/10	CTL 059169 Final Report.pdf (102 Pages)
82	1/20/10	2009 NRC Special Information (94 pages)

		FOIA-2010-0116
		Email – From: Miller, Craig L [Craig.Miller@pgnmail.com] to Lake,
		Louis; Thomas, George; Carrion, Robert; 'nausdj@ornl.gov';
		Souther, Martin; 'trowe@wje.com' Cc: Williams, Charles R. dated
		Friday, January 22, 2010 8:53 AM
83	1/21/10	Subject: FW: Failure Mode 5.3 Ready for Review
		Attachments: FM 5.3.Maintenance.pdf; FM 5.3 Exhibit 3 - Item #101
		- Purity of pressure washing water-1.pdf; FM 5.3 Exhibit 1 -
		Interviews regarding Maintenance -1.pdf; FM 5.3 Exhibit 2 - ACI
		515.1R deleterious chemicals-1.pdf (11 Pages)
84	1/20/10	List of all questions (94 Pages)
85	1/21/10	Subject: FW: CTR Level II Schedule (3 pages)
0.5		
86	1/21/10	5.3 Maintenance (1 Page)
		From: Williams, Charles R. [Charles.Williams@pgnmail.com] To:
		Lake, Louis; Thomas, George dated Wednesday, January 20, 2010
87	1/20/10	5:16 PM
01	1/20/10	Subject: FW: 01-21-10 Containment Repair Project Level 3
1		schedule
		Attachments: 01-21-10 Level 3 Rev D - 11x17.pdf (10 Pages)
88	11/23/09	8.1 and 8.5 (3 pages)
89	11/23/09	3.1 Inadequate Air Content (2 pages)
00	10/5/09	Crystal River 3 Nuclear Condition Report Summary – NCRs Initiated
90	10/5/09	Since Sep 28, 2009 (1 page)
04	40/5/00	10/6/09 Crystal River 3 Nuclear Safety Review Committee Handout
91	10/5/09	Page (1 page)
92	1/20/10	5.3 Exhibit 1 Interviews Regarding Maintenance (1 Page)
		Email – From: Williams, Charles R.
		[Charles.Williams@pgnmail.com] to: Lake, Louis; Thomas, George
	4440440	dated Monday, January 18, 2010 4:18 PM
93	1/18/10	Subject: FW: 01-19-10 Containment Repair Project Level 3
		schedule
		Attachments: 01-19-10 Level 3 Rev D - 11x17.pdf (12 Pages)
		Email - From: Williams, Charles R. To: Lake, Louis; Thomas,
		George
	,	[Charles.Williams@pgnmail.com] dated Sunday, January 17, 2010
94	1/17/10	9:28 AM
	1717710	Subject: FW: 01-18-10 Containment Repair Project Level 3
		schedule
		Attachments: 01-18-10 Level 3 Rev D - 11x17.pdf (12 Pages)
		Email - From: Miller, Craig L [Craig.Miller@pgnmail.com] To: Lake,
		Louis; Thomas, George; Carrion, Robert; 'trowe@wje.com'; Sealey,
		Mac Cc: Williams, Charles R. dated Saturday, January 16, 2010
		1:24 PM
0.5	44044	Subject: RE: Failure Mode 2.6 for Review and Commet
95	1/16/10	Attachments: FM 2.6 Exhibit 3 Cylinder Tests exterior wall 28
		days.pdf; FM 2.6 Exhibit 4c Petrographic Mactec 2009-11-11.pdf;
		FM 2.6 Exhibit 4a Petrographic Erlin Hime May 1976.pdf; FM 2.6
		Exhibit 4b Petrographic CTL.PDF; FM 2.6 Exhibit 5 - Strength and
		Modulus of Elasticity-Core Samples.pdf (31 Pages)
		Email - From: Miller, Craig L [Craig.Miller@pgnmail.com] To: Lake,
	1/16/10	Louis; Thomas, George; Carrion, Robert; 'trowe@wje.com'; Sealey,
		Mac Cc: Williams, Charles R. dated Saturday, January 16, 2010
		1:19 PM
96		Subject: Failure Mode 2.6 for Review and Commet
		Attachments: FM 2.6.pdf; FM 2.6 Exhibit 1 - Law Engineering mix
		design tests.pdf; FM 2.6 Exhibit 2 - pour cards from bay RBCN-
		0015.pdf (52 Pages)
	<u> </u>	1 co .o.bo. (oz . ogoo)

		FUIA-2010-0116
		Email – From: Miller, Craig L [Craig.Miller@pgnmail.com] To: Miller,
		Craig L; Lake, Louis; Thomas, George; Carrion, Robert;
		'trowe@wje.com'
97	1/16/10	Cc: Williams, Charles R. dated Saturday, January 16, 2010 1:15 PM
		Subject: RE: Failure Mode 5.1 for Review and Commet
		Attachments: FM 5.1 Exhibit 6a - Petrographic Mactec 2009-12-
		08.pdf (13 Pages)
		From: Miller, Craig L [Craig.Miller@pgnmail.com] to: Miller, Craig L;
		Lake, Louis; Thomas, George; Carrion, Robert; 'trowe@wje.com'
		Cc: Williams, Charles R. dated Saturday, January 16, 2010 1:14 PM
00	1/16/10	Subject: RE: Failure Mode 5.1 for Review and Commet
98	1/16/10	Attachments: FM 5.1 Exhibit 4 -report on concrete placement-
1		Pour528RBElev103.pdf; FM 5.1 Exhibit 5 - Law Engineering Tests
		Aggregates only pdf; FM 5.1 Exhibit 6b - Petrographic Erlin Hime
		June 1976.pdf (7 Pages)
		Email - From: Miller, Craig L [Craig.Miller@pgnmail.com] To: Lake,
		Louis; Thomas, George; Carrion, Robert; 'trowe@wje.com'
		Cc: Williams, Charles R. dated Saturday, January 16, 2010 1:10 PM
99	1/16/10	Subject: RE: Failure Mode 5.1 for Review and Commet
33	1/10/10	Attachments: FM 5.1.pdf; FM 5.1 Exhibit 1 - SP5618 and JAJ-W5
		clean forms.pdf; FM 5.1 Exhibit 2 - QC Procedures_PTL-10.pdf; FM 5.1 Exhibit 3 Pour 5.3 P. N.C. P. 213 cand in joints pdf (12 Pages)
		5.1 Exhibit 3 - Pour528RB-NCR213 sand in joints.pdf (12 Pages)
		Email – From: Miller, Craig L [Craig.Miller@pgnmail.com] to
		Portmann, Rick; Lake, Louis; Thomas, George; Ghosal, Partha S.;
		Carrion, Robert; 'nausdj@ornl.gov'
		Cc: Williams, Charles R. dated Saturday, January 16, 2010 12:53
		PM
100	1/16/10	Subject: Failure Mode 6.2 for Review and Comment
}		Attachments: FM 6.2.pdf; FM 6.2 Exhibit 1 Subsection IWL.pdf; FM
		6.2 Exhibit 2 Wire Material from DBD11-2-1.pdf; FM 6.2 Exhibit 3
		Strain along Wire.pdf; FM 6.2 Exhibit 3 Strain along Wire.pdf; FM
		6.2 Exhibit 4 Wire Surveillances.pdf; FM 6.2 Exhibit 5 Wire Testing-
		1.pdf; FM 6.2 Exhibit 6 atlas 947613_0001.pdf (35 Pages)
		Email - From: Williams, Charles R.
		[Charles Williams@pgnmail.com] to Lake, Louis, Thomas, George
		dated Thursday, January 14, 2010 3:28 PM
101	1/14/10	Subject: FW: 01-15-10 Containment Repair Project Level 3
		schedule
		(11 Pages)
	···	Email – From: Williams, Charles R.
1		[Charles.Williams@pgnmail.com] To: Lake, Louis; Thomas, George
		dated Thursday, January 14, 2010 7:16 AM
102	1/14/10	Subject: FW: 01-14-10 Containment Repair Project Level 3
		schedule
1		
400	. 4/40/40	(13 Pages)
103.	1/13/10	5.1 Contamination during construction (2 pages)
		Email - From: Williams, Charles R. to Lake, Louis; Thomas, George
		[Charles Williams@pgnmail.com] dated Wednesday, January 13,
104	1/13/10	2010 10:46 AM
'57	10, 10	Subject: FW: 01-13-10 Containment Repair Project Level 3
		schedule
		(13 Pages)
		Email - From: Thomas, George To: Naus, Dan J.
105	1/10/10	Cc: Lake, Louis dated Tuesday, January 12, 2010 3:59 PM
105	1/12/10	Subject: FW: Petrographic Report
		(17 Pages)
L	······································	

106	1/12/10	From: Thomas, George to: Naus, Dan J. Cc: Lake, Louis dated Tuesday, January 12, 2010 3:57 PM Subject: FW: Petrographic Report (19 Pages)
107	1/12/10	Email - From Thomas, George to Naus, Dan J. Cc: Lake, Louis dated Tuesday, January 12, 2010 3:56 PM Subject: FW: Petrographic Report Attachments: S&ME Modulus Core 16, 40, 63, 65, 66.pdf; S&ME Density Core 16, 40, 60, 63, 65, 66.pdf; S&ME Compressive Core 31 and 45.pdf; S&ME Compressive Core 59.pdf) (22 Pages)
108	1/11/10	5.4 Concrete Form Release (1 Page)
109	1/11/10	Email – From: Williams, Charles R. [Charles.Williams@pgnmail.com] to Lake, Louis; Thomas, George; 'nausdj@ornl.gov'; Carrion, Robert; Souther, Martin; 'Archer, John C. (Reading)'; 'Wells, Richard P. (Reading)' Cc: Miller, Craig L dated Monday, January 1-1,-2010-5:53-PM Subject: FM 5.8 Ex 5b Draft for Review (8 Pages)
110	1/11/10	Email – From: Williams, Charles R. To: Lake, Louis; Thomas, George; Carrion, Robert; 'nausdj@ornl.gov'; Souther, Martin; 'Archer, John C. (Reading)'; 'Wells, Richard P. (Reading)' Cc: Miller, Craig L [Charles.Williams@pgnmail.com] dated Monday, January 11, 2010 5:49 PM Subject: FM 5.8 Draft for Review Attachments: FM 5.8 Exhibit 3b Petrographic CTL.pdf; FM 5.8 Exhibit 3c Petrographic Mactec 2009-11-11.pdf; FM 5.8 Exhibit 4 WC ratio RB-15.pdf; FM 5.8 Exhibit 5a Petrographic Mactec 2009-12-23.pdf; FM 5.8 Exhibit 6 permeability v w2c from Mehta.pdf; FM 5.8 Exhibit 7 Petrographic CTL.pdf; FM 5.8 Exhibit 8 - ASR test report - PII.pdf; FM 5.8 Exhibit 9 ASTM C1260.pdf; FM 5.8 exhibit 2 Mix Design- from Dome Repair Report-cgp.pdf; FM 5.8 Exhibit 3a Petrographic Erlin Hime May 1976.pdf (32 Pages)
111	1/11/10	Email – From: Williams, Charles R. [Charles.Williams@pgnmail.com] to Lake, Louis; Thomas, George; 'nausdj@ornl.gov'; Carrion, Robert; Souther, Martin; 'trowe@wje.com' dated Monday, January 11, 2010 5:42 PM Subject: FM 5.4 Draft for Review Attachments: FM 5.4 Exhibit 2 - QC Procedures_PTL-10.pdf; FM 5.4 Exhibit 3 - Pour712RBElev210.pdf; FM 5.4.pdf; FM 5.4 Exhibit 1 - Forms - SP5618 Placement of Structural Concrete.pdf (7 Pages)
112	1/11/10	Email – From: Williams, Charles R. To: Lake, Louis; Thomas, George; Carrion, Robert; 'nausdj@ornl.gov'; 'daniel.fiorello@exeloncorp.com'; Lese, Joseph A. Cc: Miller, Craig L [Charles.Williams@pgnmail.com] dated Monday, January 11, 2010 5:38 PM Subject: FM 4.7 Draft for Review Attachments: FM 4.7 Exhibit 4 - Pour Location Drawing Buttress 6-1 and 3-4 color.pdf; FM 4.7.pdf; FM 4.7 Exhibit 1 - Break Test Summary - core v original table.pdf; FM 4.7 Exhibit 2 Cylinder Tests exterior wall 28 days.pdf; FM 4.7 Exhibit 3 - Concrete .pdf (21 Pages)
113	1/8/10	Email - From: Dyksterhouse, Don [don.dyksterhouse@pgnmail.com] To: Thomas, George Cc: Dyksterhouse, Don; Lake, Louis dated Friday, January 08, 2010 8:17 AM Subject: Approved calculations Attachments: 0102-0135-jlh-2 Radial Pressure at Tendons r0_signed.pdf; Approved January 6 0102-0135-01 effective elastic modulus r0.pdf (29 Pages)

		FOIA-2010-0116
114	1/7/10	Email – Subject: Spauling Pictures, Attachments: Spauling 010.jpg; Spauling 001.jpg to Spauling 009.jpg (21 Pages)
		Email - From: Chou, Rich To: Powell, Sid
		Cc: Franke, Mark, Lake, Louis, Sykes, Marvin, Morrissey, Thomas,
115	1/7/10	Reyes, Rogerio dated Thursday, January 07, 2010 11:53 AM
		Subject: FW: Wednesday NCRs
	•	(4 Pages)
		Email – From: Williams, Charles R.
1		[Charles.Williams@pgnmail.com] To: Lake, Louis; Thomas, George;
		'nausdj@ornl.gov'; Carrion, Robert; Souther, Martin;
		'trowe@wje.com'
1		Cc: Miller, Craig L dated Wednesday, January 06, 2010 4:51 PM
]		Subject: FM 5.5 - Corrosion of Rebars and Sleeves
		Attachments: FM 5.5 - Corrosion Rebars and Sleeves.pptx; FM 5.5
116	1/6/10	Exhibit 1 Permeability v w2c from Mehta.pdf; FM 5.5 Exhibit 2 Mix
		Design- from Dome Repair Report-cgp.pdf; FM 5.5 Exhibit 3a
]		Petrographic Erlin Hime May 1976-1.pdf; FM 5.5 Exhibit 3b
		Petrographic CTL.pdf; FM 5.5 Exhibit 3c Petrographic Mactec 2009-
		11-11.pdf; FM 5.5 Exhibit 4 WC ratio RB-15.pdf; FM 5.5 Exhibit 5
		Cover detail - Plan 421-036-SH000.pdf; FM 5.5 Exhibit 6 Cover
		photos.pdf (20 Pages)
		Email – From: Williams, Charles R.
}		[Charles.Williams@pgnmail.com] to Lake, Louis, Thomas, George;
1		'nausdj@ornl.gov'; Carrion, Robert; Worthington, Wayne; 'Archer,
		John C. (Reading)'
]]	1/5/10	Cc: Miller, Craig L, Edwards, Steven dated Tuesday, January 05,
		2010 7:50 AM
		Subject: FW: FM 3.7 - Inadequate Testing
		Attachments: FM 3.7.pptx; FM 3.7 Exhbit 1 - field testing from specs
117		- SP5618.pdf; FM 3.7 Exhibit 2 QC sp5569 Furnishing of Structural
		Concrete.pdf; FM 3.7 Exhibit 3 QC Procedures_PTL-10.pdf; FM 3.7
}		Exhibit 4 QC in Pour712RBElev210.pdf; FM 3.7 Exhibit 5 Pour
		511RB-NCR95 Concrete temperature.pdf; FM 3.7 Exhibit 6 Fc in
		Pour712RBElev210.pdf; FM 3.7 Exhibit 7 tickets for
		Pour712RBElev210.pdf; FM 3.7 Exhibit 8 S00-0047 Concrete
		Strength.pdf; FM 3.7 Exhibit 9 Cylinder Tests exterior wall 28
		days.pdf; FM 3.7 Exhibit 10 - Slump allowed - Final Dome
110		Report.pdf (63 Pages)
118	1/4/10	Email – Subject: Schedule (17 Pages)
119	1/4/10	CR3 Outage Containment Repair Project – Level 3 Schedule (16
		Pages)
120	1/4/10 1/1/10	6.2 Inadequate Tendon (2 Pages)
121 122	1/1/10	5.5 Exhibit 2 Mix Design from Dome Repair (1 Page) 5.5 Exhibit 3a Petrographic Erlin Hime May 19 (3 Pages)
123	1/1/10	5.5 Exhibit 1 Permeability v w2c from Mehta (1 Page)
123	1/1/10	Email – From: Williams, Charles R. Charles.Williams@pgnmail.com]
		To: Lake, Louis; Thomas, George; 'nausdj@ornl.gov'; Carrion,
		Robert; Miller, Craig L dated Thursday, December 31, 2009 5:20
		PM Subject: FM 9.3 Draft and Exhibits for Review
124	12/31/09	Attachments: FM 9.3 Exhibit 2 FSAR Ch 2 Selected Pages.pdf; FM
1 1		9.3 Exhibit 3 Glenn-Craig email.pdf; FM 9.3 Exhibit 4 Containment
		Exterior Surface Survey Data.pdf; FM 9.3.pptx; FM 9.3 Exhibit 1
		Gilbert Study Section 1.2.11.pdf (27 Pages)
		<u> </u>

	FOIA-2010-0116
12/31/09	Email – From: Williams, Charles R. to Lake, Louis; Thomas, George; 'nausdj@ornl.gov'; Carrion, Robert; Pugh, C-Glenn; 'daniel.fiorello@exeloncorp.com' [Charles.Williams@pgnmail.com] dated Thursday, December 31, 2009 4:43 PM Subject: Emailing: FM 1.6 Exhibit 3 FSAR Ch 2 Selected Pages.pdf, FM 1.6.pptx, FM 1.6 Exhibit 1 Gilbert Study Section 1.2.11.pdf, FM 1.6 Exhibit 2 Containment Exterior Surface Survey Data.pdf Attachments: FM 1.6 Exhibit 3 FSAR Ch 2 Selected Pages.pdf; FM 1.6.pptx; FM 1.6 Exhibit 1 Gilbert Study Section 1.2.11.pdf; FM 1.6 Exhibit 2 Containment Exterior Surface Survey Data.pdf (27 Pages)
12/31/09	Email – From: Williams, Charles R. [Charles.Williams@pgnmail.com] to: Lake, Louis; Thomas, George; Carrion, Robert; 'nausdj@ornl.gov'; Pugh, C-Glenn; 'daniel.fiorello@exeloncorp.com' dated Thursday, December 31, 2009 4:37 PM Subject: FM 1.5 Draft for Review Attachments: FM 1.5 pptx; FM 1.5 Exhibit 1 Glenn-Craig email.pdf; FM 1.5 Exhibit 2 Containment Exterior Surface Survey Data.pdf; FM 1.5 Exhibit 3 RB Foundation Settlement discussion per FSAR.pdf (9 Pages)
12/31/09	Email - From: Williams, Charles R. [Charles.Williams@pgnmail.com] to Lake, Louis; Thomas, George; Carrion, Robert dated Thursday, December 31, 2009 2:52 PM Subject: FW: Fm 5.2 Draft for Review Attachments: FM 5.2 Exhibit 2 - Mactec PetrographicReport-Final NO PHOTOS.pdf (17 Pages)
12/31/09	Email – From: Williams, Charles R. [Charles.Williams@pgnmail.com] to: Lake, Louis; Thomas, George; Carrion, Robert dated Thursday, December 31, 2009 2:51 PM Subject: FW: Fm 5.2 Draft for Review Attachments: FM 5.2 pptx; FM 5.2 Exhibit 3 - CTL Petrographic Report.pdf; FM5.2 Exhibit 1 - Erlin Hime Petro report.pdf (16 Pages)
12/29/09	Email – Subject: Revised engineering/repair work flow chart (2 Pages)
12/28/09	Email – From: Thomas, George To: Lake, Louis Cc: Khanna, Meena; Franke, Mark; Farzam, Farhad; Carrion, Robert; Masters, Anthony; nausdj@ornl.gov dated Monday, December 28, 2009 6:15 PM Subject: CR-3 Schedule and Root Cause Failure Modes Update as of 12-28-09 Attachments: 12-28-09 Level 3 Rev D - 11x17.pdf; 12-28-09 Root Cause Update.pdf; Failure Modes CR3, Rev.11 122809.ppt (18 Pages)
	12-28-09 Level 3 Rev D -11x17.pdf (16 Pages)
	Engg Repair Work Flow 12-28-09.pdf (1 Page)
12/23/09	5.8 Exhibit 5a Petrographic (3 Pages)
12/22/09	Email – From: Orf, Tracy to Lake, Louis dated Tuesday, December 22, 2009 6:31 AM Subject: FW: CR3 Updated Root Cause Information Attachments: 2009 Dec 18 - Root Cause Update for NRC.pptx (2 Pages)
12/21/09	Email – Subject: FW: CR3 Containment Repair Project Level 1 Schedule Attachments: 12-16-09 Level 1 Rev C - 11x17.pdf (2 pages)
	12/31/09 12/31/09 12/31/09 12/29/09 12/28/09 12/28/09 12/23/09

From: Miller, Craig L [Craig.Miller@pgnmail.com] To: Lake, Louis; Thomas, George; nausdj@ornl.gov; Carrion, Robert Cc: Williams, Charles R. dated Friday, December 18, 2009 4:47 P Subject: Draft FM 3.5 for Review 136 12/18/09 Attachments: FM 3.5.pptx; FM 3.5 x 1 SP5569 specs admixtures-1.pdf; FM 3.5 x 2 - mix designs -1.pdf; FM 3.5 x 3 - admixtures in pour ticket -1.pdf; FM 3.5 x 4 - Air graph 1.pdf; FM 3.5 x 5 - Erlin Hime Petro report.pdf; FM 3.5 x 6 - CTL Petrographic Report.pdf; FM 3.5 x 7 - Mactec Petrographic Report.pdf (19 Pages) Email – From: Miller, Craig L [Craig.Miller@pgnmail.com] to Lake,	M
Cc: Williams, Charles R. dated Friday, December 18, 2009 4:47 P Subject: Draft FM 3.5 for Review Attachments: FM 3.5.pptx; FM 3.5 x 1 SP5569 specs admixtures-1.pdf; FM 3.5 x 2 - mix designs -1.pdf; FM 3.5 x 3 - admixtures in pour ticket -1.pdf; FM 3.5 x 4 - Air graph 1.pdf; FM 3.5 x 5 - Erlin Hime Petro report.pdf; FM 3.5 x 6 - CTL Petrographic Report.pdf; FM 3.5 x 7 - Mactec Petrographic Report.pdf (19 Pages)	M
Subject: Draft FM 3.5 for Review Attachments: FM 3.5.pptx; FM 3.5 x 1 SP5569 specs admixtures- 1.pdf; FM 3.5 x 2 - mix designs -1.pdf; FM 3.5 x 3 - admixtures in pour ticket -1.pdf; FM 3.5 x 4 - Air graph 1.pdf; FM 3.5 x 5 - Erlin Hime Petro report.pdf; FM 3.5 x 6 - CTL Petrographic Report.pdf; FM 3.5 x 7 - Mactec Petrographic Report.pdf (19 Pages)	M
136 12/18/09 Attachments: FM 3.5.pptx; FM 3.5 x 1 SP5569 specs admixtures- 1.pdf; FM 3.5 x 2 - mix designs -1.pdf; FM 3.5 x 3 - admixtures in pour ticket -1.pdf; FM 3.5 x 4 - Air graph 1.pdf; FM 3.5 x 5 - Erlin Hime Petro report.pdf; FM 3.5 x 6 - CTL Petrographic Report.pdf; FM 3.5 x 7 - Mactec Petrographic Report.pdf (19 Pages)	
1.pdf; FM 3.5 x 2 - mix designs -1.pdf; FM 3.5 x 3 - admixtures in pour ticket -1.pdf; FM 3.5 x 4 - Air graph 1.pdf; FM 3.5 x 5 - Erlin Hime Petro report.pdf; FM 3.5 x 6 - CTL Petrographic Report.pdf; FM 3.5 x 7 - Mactec Petrographic Report.pdf (19 Pages)	
1.pdf; FM 3.5 x 2 - mix designs -1.pdf; FM 3.5 x 3 - admixtures in pour ticket -1.pdf; FM 3.5 x 4 - Air graph 1.pdf; FM 3.5 x 5 - Erlin Hime Petro report.pdf; FM 3.5 x 6 - CTL Petrographic Report.pdf; FM 3.5 x 7 - Mactec Petrographic Report.pdf (19 Pages)	
pour ticket -1.pdf; FM 3.5 x 4 - Air graph 1.pdf; FM 3.5 x 5 - Erlin Hime Petro report.pdf; FM 3.5 x 6 - CTL Petrographic Report.pdf; FM 3.5 x 7 - Mactec Petrographic Report.pdf (19 Pages)	
Hime Petro report.pdf; FM 3.5 x 6 - CTL Petrographic Report.pdf; FM 3.5 x 7 - Mactec Petrographic Report.pdf (19 Pages)	
FM 3.5 x 7 - Mactec Petrographic Report.pdf (19 Pages)	
Louis; Thomas, George; nausdj@ornl.gov; Carrion, Robert	R 4
Cc: Williams, Charles R. dated Friday, December 18, 2009 4:44 P	IVI
Subject: Draft FM 3.2 for Review	
137 12/18/09 Attachments: FM 3.2 pptx; FM 3.2 x 1 - Break Test Summary - co	
v original table.pdf; FM 3.2 x 2 - SP5618 grout specs.pdf; FM 3.2 x	
- grout and concrete batching - FPC Procedure W112 .pdf; FM 3.2	
x4 - Pour data summary CR3.pdf; FM 3.2 x 5 - joint photos.pdf (20)
pages)	
Email – From: Miller, Craig L [Craig.Miller@pgnmail.com] to: Lake	,
Louis; Thomas, George; nausdj@ornl.gov; Carrion, Robert	•
Co: Williams Charles P. dated Friday December 19, 2000 4:41 P	М
138 12/18/09 Subject: Draft FM 2.9 for Review	
Attachments: FM 2.9 x 1 - Pour406RB-NCR98.pdf; FM 2.9.pptx (6	
Pages)	
From: Jones, Tai [Brandy.Jones@pgnmail.com] To: Lake, Louis	
dated Thursday, December 17, 2009 12:44 PM	
Subject: CR3 Open Requests	
Attachments: Open Requests.pdf (65 Pages)	
140 12/28/09 Failure Modes of CR-3 Containment Concrete Delamination Issue	
(16 pages)	
Email – From: Lake, Louis [Louis.Lake@pgnmail.com] To: Lake,	
Louis dated Thursday, December 17, 2009 12:05 PM	
Subject Fvv. CR3 Containment Repair Project Level 1 Schedule	
Attachments: 12-16-09 Level 1 Rev C - 11x17.pdf (2 Pages)	
Email - From: Williams, Charles R. to Lake, Louis; Thomas,	
George; nausdj@ornl.gov; Carrion, Robert	
Cc: Miller, Craig L	
[Charles.Williams@pgnmail.com] dated: Thursday, December 17	
2009 11:19 AM	,
142 12/17/09 Subject: Draft FM 2.2 for Review	
Attachments: FM 2.2 .pptx; FM2.2 x 1 - pump and bucket -	
Pour729RB.pdf; FM2.2 x 2 - SP5618.pdf; FM2.2 x 3 - Pour data	
summary CR3.pdf; FM2.2 x 4 - photos.pdf; FM2.2 x 5 -	
Pour528RBElev103-joints.pdf; FM2.2 x 6 pouring in	
Pour712RBElev210.pdf (18 Pages)	
143 12/28/72 Reactor Equipment Building Access Opening (5 pages)	
Email – From: Fagan, Paul [Paul.Fagan@pgnmail.com] to Lake,	
Louis dated Wednesday, December 16, 2009 6:10 PM	
144 12/16/09 Subject: FW: 12-16-09 Containment Repair Project Level 3	
schedule	
Attachments: 12-16-09 Level 3 Rev B - 11x17.pdf (15,Pages)	
Email – From: Williams, Charles R.	-
[Charles.Williams@pgnmail.com] To: Lake, Louis; Thomas, Georg	ie:
nausdj@ornl.gov; Carrion, Robert	, ,
145 12/15/09 Cc: Miller, Craig L dated Tuesday, December 15, 2009 11:31 AM	
Subject: Draft Refute 9.2 for Review	
Attachments: FM 9.2.ppt; Pages from FSAR Section 05.pdf (2	
Pages)	
l ayes)	

		FOIA-2010-0116
1		Email - From: Williams, Charles R. to Lake, Louis; Thomas, George;
		nausdj@ornl.gov; Carrion, Robert Cc: Miller, Craig L
		[Charles.Williams@pgnmail.com] dated Tuesday, December 15,
146	12/15/09	2009 11:28 AM
	12/10/00	Subject: FM 9.1 Draft for Review
		Attachments: FM 9.1.ppt; Pages from FSAR Section 05_2.pdf (8
		Pages)
		Email - From: Fagan, Paul [Paul.Fagan@pgnmail.com] To:
		'lakelf@bellsouth.net'; Lake, Louis Cc: Miller, Garry dated Monday,
147	12/14/09	December 14, 2009 11:14 AM
''''	12/14/00	Subject: Emailing: 2009 Dec 11 - Root Cause Update for NRC.pptx
		Attachments: 2009 Dec 11 - Root Cause Update for NRC.pptx (3
		Pages)
		Email - From: Franke, Mark to: Lake, Louis dated Monday,
1		December 14, 2009 7:42 AM
148	12/14/09	Subject: FW: CR3 Root Cause Information
		Attachments: 2009 Dec 11 - Root Cause Update for NRC pptx (2
		Pages)
		Email - From: Orf, Tracy to: Lake, Louis dated Monday, December
1		
149	12/14/09	14, 2009 7:32 AM Subject: FW: CR3 Root Cause Information
		Attachments: 2009 Dec 11 - Root Cause Update for NRC.pptx (2
		Pages)
150	1/23/09	2.7 Inadequate Vibration During Pour (3 pages)
		Email - From: Williams, Charles R. to Lake, Louis; Thomas,
		George; nausdj@ornl.gov; Carrion, Robert
1		Cc: Miller, Craig L
		[Charles.Williams@pgnmail.com] dated Friday, December 11, 2009
l		4:14 PM Subject: FM 2.11 for Review
151	12/11/09	Attachments: FM 2.11[1].pptx; FM2.11 x 6 - core strength.pdf;
		FM2.11 x4 - Pour data summary CR3.pdf; FM2.11 x 1 -
		Pour528RBElev103-joints.pdf; FM2.11 x 2 - SP5618 5 01.6.pdf;
ļ .		FM2.11 x 3 - SP5618 4 01.2.pdf; FM2.11 x 5 - photos.pdf (19
450	40/44/00	Pages)
152	12/11/09	5.2 Exhibit 2 Mactec Petrographic (16 Pages)
153	12/11/09	Email – Subject: Information Request #52 (2 Pages)
154	12/11/09	Email – Subject: Emailing: !NRC Request #55 Information.docx
		Attachments: !NRC Request #55 Information.docx (2 pages)
155	Undated	Horizontal Tendons Pages 26-39 (14 pages)
156	9/16/09	PSC Field and Quality Control Manual (130 Pages)
157	12/10/09	2009 NRC Special Inspection – RB Concrete Separation (85 pages)
		Email - Subject: mailing: !Request #7 NRC SIT Question#1
		Information.docx
	12/10/09	Attachments: R16 Tendon Detensiong sequence.pdf;
158		Z23R5 PSC Field and Quality Control Manual1.pdf;
		Containment Opening - Tendon Removal Timeline.xlsx;
	1	
		!Request #7_NRC SIT Question#1 Information.docx (134 Pages)
1		Email - Subject: Emailing: !Request #9_NRC SIT Question#3
159	12/10/09	Information.docx
'00	12, 10,00	Attachments: !Request #9_NRC SIT Question#3 Information.docx
		(3 pages)
		Subject: Emailing: !Request #9_NRC SIT Question#3
1		Information.docx
160	12/10/09	Attachments:
	1	!Request #24_NRC SIT Question#18 Information.docx;
	1	
		!Request #9 NRC SIT Question#3 Information docx (6 pages)
		!Request #9_NRC SIT Question#3 Information.docx (6 pages)
161	12/10/09	Email – Subject: Emailing: NRC Request 12 Response.docx
161	ļ. <u></u>	Email – Subject: Emailing: NRC Request 12 Response.docx Attachments: NRC Request 12 Response.docx (2 pages)
	12/10/09 2/4/09 2/4/09	Email – Subject: Emailing: NRC Request 12 Response.docx

		FUIA-2010-0116
		Email – Subject: Emailing: Response to NRC Request 23.pdf
164	12/10/09	Attachments: NCR 0035872410 text.docx;
		Response to NRC Request 23.pdf (8 pages)
		Email – Subject: Emailing: !Request #25_NRC SIT Question#19
		Information - Rev 1.docx
165	12/10/09	Attachments: RO-16 IWL Exam Reports.pdf;
		!Request #25_NRC SIT Question#19 Information - Rev 1.docx (31
		pages)
		Email - Subject: Emailing: Request 29 Question 23 Response
166	12/10/09	(3).docx
]		Attachments: Request 29 Question 23 Response (3).docx (2 pages)
		Email from Lake, Louis to Dan Naus, Lake, Louis, Masters,
		Anthony, Robert Carrion, Thomas, George, dated Thursday,
167	12/10/09	December 10, 2009, 7:43 AM
		Subject: Emailing: 12-3_All questions.pdf; Attachments: 12-
		3_All questions.pdf (86 pages)
		Email from Lake, Louis to Thomas, George dated Thursday,
	•	December 10, 2009 8:25 AM
168	12/10/09	Subject: FW: Emailing: PresconFieldInstallationManual.tif
		Attachements: PresconFieldInstallationManual.tif (53 pages)
		Email – From: Orf, Tracy to Lake, Louis dated Tuesday, December 08, 2009 6:29 AM
169	12/8/09	,
		Subject: FW: Updated CR3 Root Cause Chart
470	40,10,100	Attachments: Root Cause Update for NRC.pptx (2 Pages)
170	12/8/09	5.1 Exhibit 6A Petrographic Mactec (12 Pages)
171	12/8/09	5.8 Exhibit 5b Petrographic (7 Pages)
172	9/21/07	5.6 Exhibit 3 Grease Replacement (9 Pages)
		Email – From: Souther, Martin [martin.souther@pgnmail.com] to:
		Lake, Louis Cc: Fagan, Paul dated Friday, December 04, 2009
173	12/4/09	12:25 PM
''3		Subject: Requested Information
		Attachments: Request for Information - Core #54 Attachments.pdf;
		Request for Information - Core #54.docx (14 Pages)
174	12/4/09	Email – Subject: Requested Information core #54 (14 Pages)
		Email – Subject: FW: Requested Information, Attachments: Request
175	12/4/09	for Information – Core #54 Attachments.pdf; Request for Information
		- Core #54.docx (14 Pages)
176	12/3/09	Email – Subject Inspection Questions (86 Pages)
		Email From: Chou, Rich to: Lake, Louis Cc: Franke, Mark; Sykes,
		Marvin; Ninh, Son; Morrissey, Thomas; Reyes, Rogerio; Chou, Rich;
	12/2/09	Powell, Sid dated Wednesday, December 02, 2009 9:02 AM
177		Subject: FW: Monday NCRs
		Attachments: 0015_insideAverage Mobility.jpg; Nov 21 markup -
		Containment Unfolded Graphics_IR Mosaic.pdf (4 Pages)
		Email – From : Williams, Charles R.
		[Charles.Williams@pgnmail.com] to Lake, Louis; Thomas, George;
		nausdj@ornl.gov; Carrion, Robert Cc: Miller, Craig L
178.	12/1/09	dated Tuesday, December 01, 2009 4:29 PM
	•	Subject: RE: Draft Refute 8.2 for Review
		Attachments: Pages from FSAR Section 05.pdf (3 Pages) Email – From: Williams, Charles R.
		[Charles.Williams@pgnmail.com] to: Lake, Louis; Thomas, George;
	12/1/09	nausdj@ornl.gov; Carrion, Robert dated Tuesday, December 01,
179		2009 3:01 PM
		Subject: Draft Refute 8.3 for your Review
		Attachments: FM 8.3.pptx; SP-178 Rev 28 (tmp) 205.pdf; Pages
		from SP-178 Rev 28 (tmp) 1.pdf; SP-178 Rev 28 - 50.59
L		Screen.pdf; EC-ED 62366RO.doc (13 Pages)

		FOIA-2010-0116
180	12/1/09	Email – From: Williams, Charles R. [Charles.Williams@pgnmail.com] to Lake, Louis; Thomas, George; nausdj@ornl.gov; Carrion, Robert dated Tuesday, December 01, 2009 2:27 PM Subject: RE: Draft Refute 8.4 For review Attachments: FM 8.4.pptx; Selected Pages from S07-0033.pdf; IWL of 10-25-09.pdf (60 Pages)
181	12/1/09	Email – From: Williams, Charles R. [Charles.Williams@pgnmail.com] To: Lake, Louis; Thomas, George; nausdj@ornl.gov; Carrion, Robert dated Tuesday, December 01, 2009 2:18 PM Subject: Draft Refute 8.2 for Review Attachments: FM 8.2.pptx; Item 176 - 1992 BS event - RB temperature info.pdf; CR3 FSAR Section 5 87.pdf; CR3 FSAR Section 5 86.pdf (5 Pages)
182	12/1/09	Email – From: Chou, Rich To: Powell, Sid Cc: Franke, Mark; Sykes, Marvin; Morrissey, Thomas; Reyes, Rogerio; Lake, Louis; Chou, Rich; Ninh, Son dated Tuesday, December 01, 2009 9:39 AM Subject: FW: Monday NCRs Attachments: 368472.pdf; 368282.pdf; 368351.pdf; 368389.pdf; 368470.pdf (6 Pages)
183	11/30/09	Email – From: Williams, Charles R. To: Lake, Louis; Thomas, George; nausdj@ornl.gov; Carrion, Robert [Charles.Williams@pgnmail.com] dated Monday, November 30, 2009 2:48 PM Subject: RE: Draft Refute 4.2 for Review Attachments: FM4.2 .ppt; Erlin Hime Petro report 05101976.pdf; Core Bore #5 Final CTL Petrographic Report 059169 C856.1.pdf; Pour743RBElev240-daily concrete curing and form removal.pdf; Pour362RB-concrete curing log.pdf; Pour362RB-daily concrete curing and form removal.pdf; Pour522RBElev98-concrete curing log.pdf; Pour528RBElev103-daily concrete curing and form removal.pdf; Pour642RB-concrete curing log.pdf; Pour642RB-curing and form removal.pdf; Pour642RB-concrete curing log.pdf; Pour642RB-curing and form removal record.pdf; Pour743RBElev240-concrete curing log.pdf (28 Pages)
184	11/30/09	Email - From: Williams, Charles R. to Lake, Louis; Thomas, George; nausdj@ornl.gov; Carrion, Robert [Charles.Williams@pgnmail.com] dated Monday, November 30, 2009 2:02 PM Subject: Draft Refute 4.1 for Review Attachments: FM 4.1.pptx; Pour743RBElev240-daily concrete curing and form removal.pdf; Pour362RB-concrete curing log.pdf; Pour362RB-daily concrete curing and form removal.pdf; Pour522RBElev98-concrete curing log.pdf; Pour522RBElev98-curing and form removal record.pdf; Pour528RBElev103-daily concrete curing and form removal.pdf; Pour642RB-concrete curing log.pdf; Pour642RB-curing and form removal record.pdf; Pour743RBElev240-concrete curing log.pdf (11 Pages)
185	11/30/09	Email – From: Williams, Charles R. To: Lake, Louis, Thomas, George; nausdj@ornl.gov; Carrion, Robert [Charles.Williams@pgnmail.com] dated Monday, November 30, 2009 1:23 PM Subject: Draft Refute 2.5 for review Attachments: FM 2.5 pptx; Ambient v concrete temp bay 15 ver 3.pdf; Ambient v concrete temp bay 12 ver 2.pdf; Ice in Pour263RB.pdf; all strength table.pdf; all strength graph.pdf; 7 and 28 day strength.pdf (14 Pages)

		FOIA-2010-0118
186	11/30/09	Email – From: Lake, Louis to Dan naus; Lake, Louis; Masters, Anthony; Carrion, Robert; Thomas, George dated Monday, November 30, 2009 1:17 PM Subject: Emailing: Failure Modes CR3, Rev.6 111809 NRC pkg no Rs.ppt Attachments: Failure Modes CR3, Rev.6 111809 NRC pkg no Rs.ppt (17 Pages)
187	11/30/09	Email - From: Williams, Charles R. To: Lake, Louis; Thomas, George; nausdj@ornl.gov; Carrion, Robert [Charles.Williams@pgnmail.com] dated Monday, November 30, 2009 1:00 PM Subject: Prelim Refute 2.4 Document for Review Attachments: FM 2.4.pptx; Pour743RBElev240-daily concrete curing and form removal.pdf; Pour362RB-concrete curing log.pdf; Pour362RB-daily concrete curing and form removal.pdf; Pour522RBElev98-concrete curing log.pdf; Pour522RBElev98-curing and form removal record.pdf; Pour528RBElev103-daily concrete curing and form removal.pdf; Pour642RB-concrete curing log.pdf; Pour642RB-curing and form removal record.pdf; Pour743RBElev240-concrete curing log.pdf; Fc over time butt 3-4.pdf; Fc develop butt 1-6.pdf; Fc develop butt 3-4.pdf; Fc over time butt 1-6.pdf (11 Pages)
188	11/30/09	Email – Subject: Emailing: Failure Modes CR3, Rev.6 111809 NRC pkg no Rs.ppt Attachments: Failure Modes CR3, Rev.6 111809 NRC pkg no Rs.ppt (17 Pages)
189	11/27/09	Item 176 1992 BS event RB temperature (4 Pages)
190	11/24/09	Email – From: Souther, Martin [martin.souther@pgnmail.com] To: Lake, Louis Cc: Fagan, Paul; Miller, Garry dated Tuesday, November 24, 2009 8:06 AM Subject: 2009 Nov 23 - Containment Unfolded Graphics_IR Mosaic.pptx Attachments: 2009 Nov 23 - Containment Unfolded Graphics_IR Mosaic.pptx (3 Pages)
191	11/24/09	Email – From: Williams, Charles R. to: Lake, Louis; Thomas, George; nausdj@ornl.gov [Charles.Williams@pgnmail.com] dated Tuesday, November 24, 2009 7:19 AM Subject: Refute 8.5 for Review Attachments: FM 8.5.ppt; Vacuum Calculation.doc; Item 108 - Purge Fan Event.pdf (7 Pages)
192	11/24/09	Email – From: Williams, Charles R. [Charles.Williams@pgnmail.com] to: Lake, Louis; Thomas, George; nausdj@ornl.gov dated Tuesday, November 24, 2009 7:17 AM Subject: Refute 8.1 for Review Attachments: FM 8.1.ppt; Item 115 - 1992 BS event.pdf; Item 136 - 1992 BS event - strip chart annotated.pdf; 1992 BS Actuation.pdf (81 Pages)
193	11/24/09	Email – From: Williams, Charles R. [Charles.Williams@pgnmail.com] to: Lake, Louis; Thomas, George; nausdj@ornl.gov dated Tuesday, November 24, 2009 7:16 AM Subject: Refute 3.3 for Review Attachments: FM 3.3.ppt; PTL Test Cement 04011974.pdf; mill cert 04021974.pdf; all strength table.pdf; 7 and 28 day strength.pdf; all strength graph.pdf; Erlin Hime Petro report 05101976.pdf; Core Bore #5 Final CTL Petrographic Report 059169 C856 (2).pdf (27 Pages)

		FUIA-2010-0116
194	11/24/09	Email – From: Williams, Charles R. [Charles.Williams@pgnmail.com] to Lake, Louis; Thomas, George; nausdj@ornl.gov Cc: Herrin, Dennis W. dated Tuesday, November 24, 2009 7:12 AM Subject: Refute 3.1 for Review Attachments: FM 3.1.ppt; Exhibit 4 - Graph of air from tickets.pdf; Exhibit 1 - Erlin Hime Petro report 05101976.pdf; Exhibit 2 - Core Bore #5 Final CTL Petrographic Report 059169 C856.pdf; Exhibit 3 - pour ticket samples - Pour666RBElev160.pdf (8 Pages)
195	11/24/09	Email – From: Williams, Charles R. To: Lake, Louis; Thomas, George; nausdj@ornl.gov Cc: Herrin, Dennis W. [Charles.Williams@pgnmail.com] dated Tuesday, November 24, 2009 7:10 AM Subject: Refute 2.8 for Review Attachments: FM 2.8.ppt; Picture 013.jpg; 4 jan 73 emailsize.jpg; 5 april 73.bmp.jpg; DSC04768.JPG; DSC04776.JPG; Picture 006.jpg (8 Pages)
196	11/24/09	Email From: Williams, Charles R. [Charles.Williams@pgnmail.com] To: Lake, Louis; Thomas, George; nausdj@ornl.gov Cc: Herrin, Dennis W. dated Tuesday, November 24, 2009 7:08 AM Subject: Refute 2.7 for Review Attachments: FM 2.7.ppt; Pour729RB-mechanical vibration.pdf; Pour362RB-mechanical vibration.pdf; Pour528RBElev103- mechanical vibration.pdf; Pour674RB-mechanical vibration.pdf; Pour713RB-mechanical vibration.pdf; Erlin Hime Petro report 05101976.pdf; Core Bore #5 Final CTL Petrographic Report 059169 C856 (2).pdf; Interview Willie Easman.doc (24 Pages)
197	11/24/09	Email - From: Williams, Charles R. to: Lake, Louis; Thomas, George; nausdj@ornl.gov Cc: Herrin, Dennis W. [Charles.Williams@pgnmail.com] dated Tuesday, November 24, 2009 7:02 AM Subject: Refute 2.3 for Review Attachments: FM 2.3.ppt; Slump in Bay 15 v2.pdf; all strength graph.pdf; Original construction Pour Data.pdf; Slump in Bay 12 v2.pdf (12 Pages)
198	11/24/09	Email From: Williams, Charles R. [Charles.Williams@pgnmail.com] To: Lake, Louis; Thomas, George; nausdj@ornl.gov dated Tuesday, November 24, 2009 6:56 AM Subject: Refute document 2.1 and Exhibits Attachments: FM 2.1.ppt; Pour642RB-curing and form removal record.pdf; Pour743RBElev240-concrete curing log.pdf; Pour743RBElev240-daily concrete curing and form removal.pdf; Pour362RB-concrete curing log.pdf; Pour362RB-daily concrete curing and form removal.pdf; Pour522RBElev98-concrete curing log.pdf; Pour522RBElev98-curing and form removal record.pdf; Pour528RBElev103-daily concrete curing and form removal.pdf; Pour642RB-concrete curing log.pdf (12 Pages)
199	11/24/09	Email – Attachments: Response to NDT Question from NRR.pdf 059169_NDT Qualification Letter_11-11-09.pdf Request 10.docx Request 11.docx Request 16.docx (20 Pages)
200	11/24/09	Email – Subject: FW: 2009 Nov 23 - Containment Unfolded Graphics_IR Mosaic.pptx Attachments: 2009 Nov 23 - Containment Unfolded Graphics_IR Mosaic.pptx (3 Pages)

		FOIA-2010-0116
		Email – Subject: FW: Refute 3.3 for Review
		Attachments: FM 3.3.ppt;
1		PTL Test Cement 04011974.pdf;
		mill cert 04021974.pdf;
		all strength table.pdf;
201	11/24/09	7 and 28 day strength.pdf,
		all strength graph.pdf;
		Erlin Hime Petro report 05101976.pdf;
		Core Bore #5 Final CTL Petrographic Report 059169 C856 (2) pdf
		· · · · · · · · · · · · · · · · · · ·
202	Undated	(22 pages)
202	Undated	Appendix Slides (15 pages)
		Email – Subject: FW: Refute 8.5 for Review
203	11/24/09	Attachments: FM 8.5.ppt;
		Vacuum Calculation.doc;
		Item 108 - Purge Fan Event.pdf (7 Pages)
		Email – Subject: FW: Refute 2.8 for Review
		Attachments: FM 2.8.ppt;
		Picture 013.jpg;
204	11/24/09	4 jan 73 emailsize.jpg;
204	11/24/09	5 april 73.bmp.jpg;
		DSC04768.JPG;
	,	DSC04776.JPG;
		Picture 006.jpg (338 pages)
205	11/24/09	Email – Subject: Refute 3.1 for Review (20 Pages)
	11121100	Email – Subject: FW: Refute 2.7 for Review
		Attachments:
		FM 2.7.ppt;
		Pour729RB-mechanical vibration.pdf;
000	44/04/00	Pour362RB-mechanical vibration.pdf;
206	11/24/09	Pour528RBElev103-mechanical vibration.pdf;
		Pour674RB-mechanical vibration.pdf;
1		Pour713RB-mechanical vibration.pdf;
		Erlin Hime Petro report 05101976.pdf;
		Core Bore #5 Final CTL Petrographic Report 059169 C856 (2).pdf;
		Interview Willie Easman.doc (26 pages)
207	11/24/09	Email – Subject: Containment Graphic (3 Pages)
208	8/15/07	Select pages from S07-0033 (42 Pages)
	J	Email - From: Thomas, George To: Carrion, Robert; Masters,
		Anthony; Farzam, Farhad; Ashar, Hansraj; Sheikh, Abdul
209	11/19/09	Cc: Khanna, Meena, Lake, Louis dated Thursday, November 19,
		2009 11:28 AM
		Subject: Presentation made to PNSC (39 Pages)
210	3/2/06	2005 ILRT.pdf (303 Pages)
211	11/18/09	Email – Subject: Information Request #52 and #55 (3 Pages)
211	11/10/08	Email From: Carrion, Robert to: Lake, Louis dated Wednesday,
040	444000	
212	11/18/09	November 18, 2009 3:53 PM
		Subject: Extra Files (19 Pages)
		Email - From: Franke, Mark to: Kennedy, Kriss Cc: McCree, Victor;
		Reyes, Luis; Lake, Louis, Carrion, Robert; Khanna, Meena; Saba,
213	11/17/09	Farideh; Sykes, Marvin; Wert, Leonard; Munday, Joel dated
		Tuesday, November 17, 2009 4:39 PM
		Subject: Crystal River containment repair plan update (38 Pages)
214	11/16/09	2009 Nov 16 - PNSC - Repair Update_FINAL.pdf (37 Pages)
	•	Subject: Crystal River IWE/IWL Tendon Layout Drawings (13
215	8/31/98	Pages)
216	11/14/09	Email – Subject: Photos of Core #5 (4 Pages)
217	11/13/09	Email – Subject: MacTec Petrographic Report (46 Pages)
218	11/13/09	059169_NDT Qualification Letter_11-11-09.pdf (2 Pages)
210	11/10/00	1 000 100_ND 1 Quanification Letter_11-11-03.put (2 rages)

		FOIA-2010-0116
ĺ		Email – From: Thomas, George to nausdj@ornl.gov Cc: Farzam,
219	11/13/09	Farhad, Lake, Louis, Carrion, Robert, Masters, Anthony
		dated Friday, November 13, 2009 2:16 PM
		Subject: MacTec Petrographic Report (46 Pages)
		Email – From Thomas, George to nausdj@ornl.gov Cc: Farzam,
220	11/13/09	Farhad; Lake, Louis; Carrion, Robert dated Friday, November 13,
		2009 2:06 PM Subject: CTL Petrographic Report on one core (12
		Pages)
221	2/11/97	6.5 Exhibits 5 (646 pages)
222	8/10/76	5.1 Exhibit 6b Petrographic Erlin Hime (4 Pages)
223	11/12/09	2009 Nov 12 – Containment Unfolded Graphics_IR Mosaic.pptx (2 Pages)
224	12/10/76	Crystal River Unit 3 – Florida Power Corporation: Reactor Building
		Dome Delamination Report (196 pages)
225	2/16/73	5.4 Exhibit 3 Pour712RBelev210 (1 Page)
226	11/12/09	Email - From Orf, Tracy To: Lake, Louis dated Thursday, November 12, 2009 7:05 AM Subject: FW: CR3 Information Update (4 Pages)
227	11/12/09	Email – Subject: Information Request #50, #58, and #49 (7 Pages)
228	11/11/09	5.5 Exhibit 3c Petrographic (5 Pages)
229	11/11/09	5.8 Exhibit 3c Petrographic (5 Pages)
230	11/9/09	Email – Subject: Additional inspection questions (1 Page)
231	11/9/09	Email – Subject: Information Request #44, #45, #46, #47, # 48, #51, #54, #56, and #57 (11 Pages)
232	10/xx/72	5.1 Exhibit 2 Pour QC procedures (1 Page)
233	11/6/09	Containment Unfolded Buttress 2 to 5 (1 page)
234	10/xx/72	5.4 Exhibit 2- QC Procedures (2 pages)
235	11/5/09	Email – Subject: Additional inspection questions (1 Page)
236	11/5/09	2009 Nov 5 - NRC Telecon Briefing.pdf (9 Pages)
237	11/5/09	Crystal River unit #3 Containment Update by Garry Miller (9 pages)
238	11/4/09	Email – Subject: CR3 Status Meeting (7 Pages)
239	7/28/72	5.1 Exhibit 4 report on concrete placement (1 Page)
240	11/2/09	5.2 Exhibit 3 CTL Petrographic (11 Pages)
241	3/13/72	5.1 Exhibit 3 Pour 528RB (5 Pages)
242	10/30/09	2009 Oct 30 – Root Cause Analysis Metrics.pptx (1 Page)
		2009 Oct 29_NRC Copy_Containment Delamination.pptx (18
243	10/29/09	Pages)
244	10/29/09	5.6 Exhibit 7 Grease Photos (3 Pages)
245	10/29/09	Email – Subject: Responses to NRC questions database set up (1 Page)
246	10/29/09	Condition Assessment (29Oct09).doc (1 Page)
247	10/28/09	Interview Cliff Peters Gary Geotsch (1 Page)
248	10/27/09	Summary of Results From Comparison.pdf (3 Pages)
		Email From Franke, Mark to Saba, Farideh Cc: Carrion, Robert;
249	10/26/09	Khanna, Meena; Chan, Terence; Lake, Louis dated Monday, October 26, 2009 2:55 PM, Subject: Crystal River NDE plan (38 Pages)
250	10/24/09	Interview Gary Geotsch (1 Page)
251	3/18/69	5.1 Exhibit 5 Law Engineering Tests (1 page)
		IWL of 10-25-09 (16 Pages)
252	10/23/09	1 1 V L OI 10-25-05 (10 1 aucs)
252 253	10/23/09 10/23/09	
253	10/23/09	Subject: October 23 2009 Containment Picture (1 Page)
253 254	10/23/09 10/23/09	Subject: October 23 2009 Containment Picture (1 Page) Subject: IWL/IWE Program information (601 Pages)
253	10/23/09	Subject: October 23 2009 Containment Picture (1 Page)

Photos; Picture007, jpg, Pcture008, jpg, Picture009, jpg, Picture010, jpg, Picture010, jpg, Picture0114, jpg, Picture021, jpg, Picture022, jpg, Picture023, jpg (4 pages)			FOIA-2010-0116
259	258	10/16/09	Picture009.jpg, Picture010.jpg, Picture014.jpg, Picture021.jpg,
260	259	10/15/09	
261 1/22/69 5.1 Exhibit 1 SP 56178 and JAJ (3 pages)			
Photos; Picture021.jpg, Picture022.jpg, Picture023.jpg, Picture024.jpg, Picture025.jpg, Picture026.jpg, Picture029.jpg, Picture028.jpg, Picture029.jpg, Picture030.jpg, Picture031.jpg, Picture032.jpg, Picture033.jpg, Picture032.jpg, Picture033.jpg, Picture034.jpg, Picture035.jpg, Picture034.jpg, Picture035.jpg, Picture038.jpg, Picture039.jpg, Picture040.jpg, Picture041.jpg, Picture042.jpg, Picture043.jpg, Picture044.jpg, Picture046.jpg, Picture044.jpg, Picture050.jpg, Picture044.jpg, Picture050.jpg, Picture051.jpg, Picture055.jpg, Picture051.jpg, Picture055.jpg, Picture056.jpg (16 pages) Crystal River 3 Nuclear Condition Report Summary –NCRs Initiated Since Oct 12, 2009 (1 page) Contact: Dennis W. Herrin, Lead Engineer Progress Energy Florida 265 10/8/09 E-Mail from Reyes to Reyes, Briefing Talking Points (2 pages) Adverse Condition Investigation Form, CAP-NGGC-0200-3-18 (28 pages) 11/16/09 Presentation to PNSC Containment Update & Discussion of Repair Options (7 pages) Cr3 NPC Outage Containment Repair Project – Level 3 Schedule (11 pages)	261	1/22/69	
Crystal River 3 Nuclear Condition Report Summary –NCRs Initiated Since Oct 12, 2009 (1 page) Contact: Dennis W. Herrin, Lead Engineer Progress Energy Florida 265 10/8/09 E-Mail from Reyes to Reyes, Briefing Talking Points (2 pages) Adverse Condition Investigation Form, CAP-NGGC-0200-3-18 (28 pages) Presentation to PNSC Containment Update & Discussion of Repair Options (7 pages) Cr3 NPC Outage Containment Repair Project – Level 3 Schedule (11 pages)	262		Photos; Picture021.jpg, Picture022.jpg, Picture023.jpg, Picture024.jpg, Picture025.jpg, Picture026.jpg, Picture027.jpg, Picture028.jpg, Picture029.jpg, Picture030.jpg, Picture031.jpg, Picture032.jpg, Picture033.jpg, Picture034.jpg, Picture035.jpg, Picture036.jpg, Picture037.jpg, Picture038.jpg, Picture039.jpg, Picture040.jpg, Picture041.jpg, Picture042.jpg, Picture043.jpg, Picture044.jpg, Picture046.jpg, Picture048.jpg, Picture050.jpg, Picture051.jpg, Picture052.jpg, Picture054.jpg, Picture052.jpg, Picture054.jpg,
Summary –NCRs Initiated Since Oct 12, 2009 (1 page) Contact: Dennis W. Herrin, Lead Engineer Progress Energy Florida 265 10/8/09 E-Mail from Reyes to Reyes, Briefing Talking Points (2 pages) Adverse Condition Investigation Form, CAP-NGGC-0200-3-18 (28 pages) Presentation to PNSC Containment Update & Discussion of Repair Options (7 pages) Cr3 NPC Outage Containment Repair Project – Level 3 Schedule (11 pages)	263	1/22/69	5.4 Exhibit 1- Forms – SP5618 (2 pages)
266 Undated Adverse Condition Investigation Form, CAP-NGGC-0200-3-18 (28 pages) 267 11/16/09 Presentation to PNSC Containment Update & Discussion of Repair Options (7 pages) 268 1/18/10 Cr3 NPC Outage Containment Repair Project – Level 3 Schedule (11 pages)		r	Summary –NCRs Initiated Since Oct 12, 2009 (1 page) Contact: Dennis W. Herrin, Lead Engineer Progress Energy Florida
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Options (7 pages) Cr3 NPC Outage Containment Repair Project – Level 3 Schedule (11 pages)	266	Undated	pages)
268 1/18/10 Cr3 NPC Outage Containment Repair Project – Level 3 Schedule (11 pages)	267	11/16/09	Options (7 pages)
269 Undated Photo (2 pages)	268	1/18/10	Cr3 NPC Outage Containment Repair Project – Level 3 Schedule
	269	Undated	Photo (2 pages)