

From: Fred Lyon
Sent: Thursday, April 30, 2009 1:57 PM
To: lakosh@gci.net
Subject: RE: how to file a FOIA request with the NRC

Thanks, Mr. Lakosh, I received them all and requested that they be placed in ADAMS, and I've forwarded them to the PRB members for information.

From: lakosh@gci.net [mailto:lakosh@gci.net]
Sent: Thursday, April 30, 2009 1:52 PM
To: Fred Lyon
Subject: RE: how to file a FOIA request with the NRC

Mr. Lyon;

I guess it would be appropriate to substitute the original PDF for the copied and converted html version for the Panel. It's encouraging to know he's on the Panel and that the NRC is already in the initial stages of addressing the issue of volcanic effects on reactors. I'll address the issues in further detail but the point I was trying to make is that ash can be a potential hazard to all US reactors from either local stratovolcanoes or the 2-3 supervolcanoes. The documentation I provided shows that both Yellowstone and Long Valley are active volcanic systems as defined by Mr. Hill's criteria and their effect must be modeled and considered for all potentially affected reactors. The extent of historic tephra deposits from the West Coast to the Mississippi can likely be extended to the East Coast when proper atmospheric modeling incorporates Jet Stream effects that may not have been a factor in the ancient depositions. As stated in my testimony, the primary question that must be resolved is the level of ash concentrations in air and water that will adversely affect reactor operation, and only then can ash distribution modeling provide a meaningful parameter for hazard and mitigation evaluations. Even then, each plant will have its own unique equipment and piping characteristics that may be more or less susceptible to ash damage.

Please confirm the receipt and distribution of the 4 emails sent today containing 15 attached documents and 4 linked documents. Tom

From: Fred Lyon [mailto:Fred.Lyon@nrc.gov]
Sent: Thursday, April 30, 2009 9:26 AM
To: lakosh@gci.net; PDR Resource
Subject: RE: how to file a FOIA request with the NRC

Mr. Lakosh, it is a chapter in a book that is scheduled to come out this fall. I don't have the details of the publication, but Mr. Hill of the NRC staff is one of the contributors. I've attached fyi the pdf version of the chapter from ADAMS.

From: lakosh@gci.net [mailto:lakosh@gci.net]
Sent: Wednesday, April 29, 2009 10:29 AM
To: PDR Resource
Cc: Fred Lyon
Subject: RE: how to file a FOIA request with the NRC

Karen;

I just sent the attached file to the Petition Review Board for their consideration. Although I tried to find the complete document, (this appear to be a chapter from a larger document), or at least a better reference on ADAMS again, my search was futile. Could you please find the complete document or at least a more complete reference as this appears to be the only relevant document in possession of the NRC? Tom (907) 563-7380

From: PDR Resource [mailto:PDR.Resource@nrc.gov]
Sent: Monday, February 23, 2009 10:23 AM
To: 'lakosh@gci.net'
Cc: Fred Lyon
Subject: RE: how to file a FOIA request with the NRC

Tom,

We have sent you all the information that we could locate. For any questions on your FOIA request, please contact their office directly at foia.resource@nrc.gov or at 301-415-7169.

Sincerely,
Karen
USNRC/PDR
pdr.resource@nrc.gov

From: lakosh@gci.net [mailto:lakosh@gci.net]
Sent: Monday, February 23, 2009 12:44 PM
To: PDR Resource
Subject: RE: how to file a FOIA request with the NRC

Karen;

I couldn't locate any either, but I wanted to check with you to see if you could provide/recommend a more comprehensive search. What still puzzles me is why any other search, including one under FOIA, would produce a different result since you and Adam would/should have provided the most comprehensive search possible. The only reason I asked for a FOIA response, is to have a formal certification of your search to avoid any future dispute over your search results in a proceeding on the matter. I have forwarded the request to the FOIA email address you provided and hope you will confer with that dept. to quickly confirm your results. Tom

From: PDR Resource [mailto:PDR.Resource@nrc.gov]
Sent: Monday, February 23, 2009 8:23 AM
To: lakosh@gci.net
Subject: RE: how to file a FOIA request with the NRC

Tom,

There may be documents in ADAMS, that have been scanned in, but I did not locate any. I was providing that as another option.

Filing a FOIA may be a good route to go.

Sincerely,
Karen
USNRC/PDR
pdr.resource@nrc.gov

From: lakosh@gci.net [mailto:lakosh@gci.net]
Sent: Monday, February 23, 2009 11:57 AM
To: PDR Resource
Subject: RE: how to file a FOIA request with the NRC

Karen;

Thank you for the information on FOIA's. Would you please explain why I would continue to conduct ADAMS searches if you have already done so without any relevant hits? Tom

From: PDR Resource [mailto:PDR.Resource@nrc.gov]
Sent: Monday, February 23, 2009 7:39 AM
To: lakosh@gci.net
Cc: Fred Lyon; Scott Burnell; Tanya Mensah
Subject: how to file a FOIA request with the NRC

Tom,

Instructions on how to file a Freedom of Information Act (FOIA) request with the NRC is at <http://www.nrc.gov/reading-rm/foia/foia-privacy.html> . FOIA requests cannot be processed by the Public Document Room (PDR) staff.

To submit a FOIA request to the NRC, you can send it through the following methods:

Regular mail:
U.S. Nuclear Regulatory Commission
FOIA/Privacy Officer Mailstop: T-5 F09
Washington, DC 20555-0001

Fax: 301-415-5130

E-mail: FOIA.resource@nrc.gov

Please also refer to the NRC "Freedom of Information Act Guide" at <http://www.nrc.gov/reading-rm/foia/foia-request.html> . This document provides procedures for submitting a request to the NRC under the FOIA.

Thanks,
Karen

USNRC/PDR
pdr.resource@nrc.gov

From: lakosh@gci.net [mailto:lakosh@gci.net]
Sent: Monday, February 23, 2009 11:27 AM
To: PDR Resource
Subject: RE: questions about your NRC document request

Karen;

Your response regarding your document search is somewhat confusing. If you completed a comprehensive search of NRC documents related to the probability of an eruption of the Yellowstone and Long Valley super volcanoes and any mitigation measures that might be taken for ash fall at nuclear reactor facilities, why would I pursue additional searches on ADAMS? In order to obtain a formal response to my request for documents relevant to the questions above please consider this a request under the Freedom of Information Act. Since you have already conducted the search gratis, I would not expect any cost associated with an additional formal response pursuant to FOIA.
Sincerely; Tom Lakosh (907) 563-7380

From: PDR Resource [mailto:PDR.Resource@nrc.gov]
Sent: Thursday, February 12, 2009 5:07 AM
To: 'lakosh@gci.net'
Cc: Fred Lyon; Scott Burnell; Tanya Mensah
Subject: RE: questions about your NRC document request

Tom,

Both Adam and I in the Public Document Room have completed our searches on your request.

We have found no documents on the microfiche.

You can follow the instructions below to access documents electronically in ADAMS on the NRC web site.

Thanks,
Karen
USNRC/PDR
301-415-4737
pdr.resource@nrc.gov

From: PDR Resource
Sent: Friday, January 30, 2009 3:56 PM
To: 'lakosh@gci.net'
Subject: RE: questions about your NRC document request

Tom,

I have only come up with a few things, but I wanted to get back to you before we leave for the day.

I have also forwarded your e-mail to the NRC Office of Public Affairs (opa.resource@nrc.gov ; 301-415-8200), asking for an expert on this topic. OPA has a list of technical experts in the agency. So I will let you know if I hear back from them.

There are 23 publicly available documents in ADAMS with Long Valley in the Title. Nothing came up when I searched Yellowstone. Here is how I searched the documents with Long Valley in Title - some may be helpful in your search.

Begin at Web-based ADAMS, <http://www.nrc.gov/reading-rm/adams/web-based.html> .

Click on "Begin ADAMS Search", and then on "Advanced Search".

In the Title field, enter Long Valley (with no quotes).

Click Search.

You should see a list of 23 document titles.

To view the official agency record, you will need to click on the PDF Image File, not the linked title.

There may also be documents on this topic in the Energy Citations Database from the Department of Energy, at <http://www.osti.gov/energycitations/index.jsp> .

Search in their Fielded Search at <http://www.osti.gov/energycitations/advancedsearch.jsp> .

Example searches I did was the term Yellowstone and Long Valley (as separate searches) in the Title field.

I will let you know what I find out from the Office of Public Affairs staff, and please let me know if you have any questions on searching ADAMS or need more information. So far, I also could not locate any documents in the microfiche.

Thanks.

Sincerely,

Karen

USNRC/PDR

301-415-4737

pdr.resource@nrc.gov

From: lakosh@gci.net [mailto:lakosh@gci.net]

Sent: Friday, January 30, 2009 12:31 PM

To: PDR Resource

Subject: RE: questions about your NRC document request

Karen;

That sounds like a reasonable process as if there were documents generated in the ADAMS time frame they would be most relevant. I've already done multiple searches using "volcanic ash", modified by reactor and similar searches but could only find reference to dispersion of waste from the volcano below Yucca Mt. I may have missed some documents but I suspect that if any relevant studies were done, they pre-dated the commissioning of most of our existing reactors. Please call ASAP anytime, 24/7, if you find a relevant publication as Fred is waiting on me to proceed with a 2.206 and/or a 2.802 review of the need for additional mitigation efforts. Tom (907) 563-7380

From: PDR Resource [mailto:PDR.Resource@nrc.gov]
Sent: Friday, January 30, 2009 5:48 AM
To: lakosh@gci.net
Subject: questions about your NRC document request

Tom,

I have read the e-mails below, and am working on answering your request for documents regarding the risk/probability of catastrophic eruptions from Yellowstone and Long Valley and their potential effect on reactor operations.

Are you interested in recent documents? Do you have a specific time-frame in mind? Please let me know if there are specific years, so I can narrow down my search.

The reason I ask is because our microfiche collection pre-dates ADAMS, the Agencywide Documents Access and Management System at <http://www.nrc.gov/reading-rm/adams.html> , which came online on November 1, 1999. However, some documents dated before this date have been scanned into ADAMS.

The easiest way to search ADAMS is via the Web-based search, at <http://www.nrc.gov/reading-rm/adams/web-based.html> .

There is a different database we search for documents in our microfiche collection. Our copy service contractor copies our microfiche, and other documents, for the public. Information about our copy service is at <http://www.nrc.gov/reading-rm/pdr/copy-service.html> and at <http://www.nrc.gov/reading-rm/pdr/fee-schedule.html> .

I will begin by searching ADAMS for electronic documents on your topic. If you would like me to search our microfiche collection as well (that goes back to at least 1975), please also me know.

Thanks, and sorry about the delay in getting back to you.

Sincerely,
Karen
Librarian
USNRC Public Document Room
301-415-4737; 1-800-397-4209
(8 am - 4 pm, Eastern Time, Mon-Fri)
pdr.resource@nrc.gov

From: lakosh@gci.net [mailto:lakosh@gci.net]
Sent: Tuesday, January 27, 2009 11:53 AM
To: PDR Resource
Subject: ATTN: Karen FW: Rulemaking

Dear Karen;

You'll find discussion of the pertinent issue below. Mr. Lyon contended that the NRC concluded that the probability of a super eruption was too low to require planning for such events but later said he was unaware of any probability/risk analysis done on this topic. I would like to review any documents considered by the NRC regarding the risk/probability of catastrophic eruptions from Yellowstone and Long Valley and their potential effect on reactor operations. Tom (907) 563-7380

From: Tom Lakosh [mailto:lakosh@gci.net]
Sent: Friday, January 23, 2009 7:39 AM
To: 'Fred Lyon'
Subject: RE: Rulemaking

Mr. Lyon;

My decision on which process to pursue, 2.206 and/or 2.802, will depend largely on the pertinent information requested in our conversation regarding the risk assessment of super eruptions from Yellowstone or Long Valley and the mitigation measures appropriate to such events. I am still unsure of the extent of effects on reactor operations and the applicable regulations and guidelines that control such operations. While the potential impact to the ultimate heat sink regulations is clear, the other potential impacts, (e.g. availability of plant consumables and retention/accommodation of personnel, etc.), could be far reaching both in terms of geographic and mitigation requirements given such a catastrophic event. I could envision proceeding with both administrative procedures where both immediate orders to resolve the probability issue is warranted and new regulations to address design issues would be applicable as well. I hope we can discuss the ramifications to a greater extent and assess the reliability of the risk assessment that have been performed to date and any need to update those assessments given subsequent dynamic events that may have altered the prior assessment scope and/or parameters. Tom (907) 563-7380

From: Fred Lyon [mailto:Fred.Lyon@nrc.gov]
Sent: Friday, January 23, 2009 6:53 AM
To: lakosh@gci.net
Subject: Rulemaking

Mr. Lakosh, based on your telephone call to me this morning, I recommend you refer to the NRC webpage <http://www.nrc.gov/about-nrc/regulatory/rulemaking.html> for links that discuss the rulemaking process. I will call you back to discuss your decision as to whether to proceed with the 2.206 process. Thanks, Fred Lyon

From: Tom Lakosh [mailto:lakosh@gci.net]
Sent: Wednesday, December 31, 2008 7:32 PM
To: 'allegation@nrc.gov'
Cc: 'ucs@ucsusa.org'
Subject: Reserve water for extended blow down

Dear NRC;

The earthquakes at Yellowstone Lake continue in a pattern suggesting that a highly pressurized chimney has developed between the surface and a depth of 7.2 km. If the worst case scenario ensues, dozens of plants will have to cease utilization of surface water within hours and clean reserve cooling water to replace steam lost in blow downs and evaporation at spent fuel storage ponds extending for months on end will be very hard to come by. I might suggest an order by the NRC to all operating US reactors detailing the threat and requiring immediate acquisition of sufficient temporary water storage, water filtration systems and pumps with spare parts to accommodate the loss of direct access to surface water for a period of no less than three months. Arrangements should be made in advance with local pumping and firefighting assets to fill the acquired water storage in a timely manner should notice of eruption be issued. If the dreaded event happens in short order, it will be necessary for the NRC to obtain cooperation of the USCG to seize all available tank vessels for diversion to nuclear facilities to provide the required clean water storage. I've supplied some links to storage bladders below but full reserve capacity may not be needed where the use of several large bladders may permit sufficient settling time for stored ash-contaminated water augmented by a filtration process between two of the bladders. If time allows, the bedding for all pillow tanks should be established for all plants West of the Mississippi and pre-positioning of some of the tanks with emergency contracts with construction equipment for additional bed preparation should be maintained elsewhere. If towable/floating tanks are acquired, no bedding is required but anchor systems should be pre-positioned to allow for timely deployment/filling of the bladders.

Sincerely, Tom Lakosh (907) 563-7380

http://www.canflexinc.com/ocean_towable_bladders_en.cfm
<http://www.mpccontainment.com/military-applications.shtml?qclid=CKvu4vy17JcCFSAUagod5FUnEA>
http://www.bergco.com/integrated_systems/products/khcms_tanksdivision_largecapacitybladder.aspx http://www.interstateproducts.com/fuel_storage_bladders.htm
<http://www.musthane.com/english/products/tanks-muststore.htm>
http://store.interstateproducts.com/water_bladders.htm?qclid=CNTd46O57JcCFQ8Qagodlw8UEA

From: Tom Lakosh [mailto:lakosh@gci.net]
Sent: Tuesday, December 30, 2008 7:47 AM
To: 'allegation@nrc.gov'
Cc: 'ucs@ucsusa.org'
Subject: Shutdown after Yellowstone eruption

Dear NRC;

Would please quickly devise a plan for immediate systematic shutdown and cooling of all reactors that may be downwind of a major Yellowstone caldera eruption? I am concerned that water pumps will not survive for long with significant ash contamination in feed water and there should be a plan to dissipate latent heat in reactor cores and spent fuel storage given a fairly short pump lifetime after ash fall. While the quakes listed below may not be anything more than hydrothermal indigestion, the long term and wide spread radioactive contamination from a

failure to properly plan for multiple ash-induced water pump failures is too catastrophic to evade a modicum of preparatory planning.

Sincerely, Tom Lakosh (907) 563-7380

Update time = Tue Dec 30 16:18:40 UTC 2008

Here are the earthquakes in the [Map Centered at 44°N, 110°W area](#), most recent at the top.

(Some early events may be obscured by later ones.)

Click on the underlined portion of an earthquake record in the list below for more information.

<u>MAG</u>	<u>UTC DATE-TIME</u> <u>y/m/d h:m:s</u>	<u>LAT</u> <u>deg</u>	<u>Lon</u> <u>deg</u>	<u>DEPTH</u> <u>km</u>	<u>LOCATION</u>
MAP 2.4	2008/12/30 11:59:07	44.523	-110.401	10.3	58 km (36 mi) ESE of West Yellowstone, MT
MAP 1.7	2008/12/30 01:35:08	44.530	-110.361	2.1	61 km (38 mi) ESE of West Yellowstone, MT
MAP 1.5	2008/12/30 01:15:37	44.522	-110.360	2.1	61 km (38 mi) ESE of West Yellowstone, MT
MAP 2.1	2008/12/30 00:51:20	44.505	-110.373	0.2	61 km (38 mi) ESE of West Yellowstone, MT
MAP 1.0	2008/12/30 00:41:35	44.522	-110.361	1.8	61 km (38 mi) ESE of West Yellowstone, MT
MAP 2.8	2008/12/30 00:36:39	44.525	-110.362	1.2	61 km (38 mi) ESE of West Yellowstone, MT
MAP 2.4	2008/12/29 21:25:15	44.525	-110.360	2.0	61 km (38 mi) ESE of West Yellowstone, MT
MAP 1.6	2008/12/29 21:18:51	44.521	-110.362	2.2	61 km (38 mi) ESE of West Yellowstone, MT
MAP 1.8	2008/12/29 21:18:36	44.522	-110.359	2.1	61 km (38 mi) ESE of West Yellowstone, MT
MAP 2.9	2008/12/29 20:38:25	44.514	-110.381	2.1	60 km (37 mi) ESE of West Yellowstone, MT
MAP 2.3	2008/12/29 20:38:04	44.511	-110.385	2.3	60 km (37 mi) ESE of West Yellowstone, MT
MAP 1.0	2008/12/29 20:26:29	44.520	-110.355	2.2	62 km (38 mi) ESE of West Yellowstone, MT
MAP 1.9	2008/12/29 20:14:26	44.498	-110.364	2.3	62 km (38 mi) ESE of West Yellowstone, MT
MAP 1.4	2008/12/29 20:13:31	44.508	-110.359	2.2	62 km (38 mi) ESE of West Yellowstone, MT
MAP 2.2	2008/12/29 19:56:46	44.522	-110.365	1.2	61 km (38 mi) ESE of West Yellowstone, MT
MAP 1.2	2008/12/29 19:53:50	44.511	-110.377	2.2	60 km (37 mi) ESE of West Yellowstone, MT
MAP 1.1	2008/12/29 19:46:13	44.515	-110.386	2.4	59 km (37 mi) ESE of West Yellowstone, MT
MAP 1.7	2008/12/29 19:44:50	44.525	-110.373	0.0	60 km (37 mi) ESE of West Yellowstone, MT
MAP 1.7	2008/12/29 19:40:27	44.511	-110.379	2.5	60 km (37 mi) ESE of West

[MAP2.4](#) [2008/12/29 19:37:0744.502-110.3661.8](#)
[MAP1.2](#) [2008/12/29 19:36:0844.521-110.3852.0](#)
[MAP1.7](#) [2008/12/29 19:35:2744.511-110.3852.4](#)
[MAP2.9](#) [2008/12/29 19:29:3844.513-110.3810.5](#)
[MAP2.5](#) [2008/12/29 19:28:5544.515-110.3810.0](#)
[MAP1.8](#) [2008/12/29 19:26:2144.519-110.3702.0](#)
[MAP1.5](#) [2008/12/29 19:24:4344.520-110.3422.3](#)
[MAP3.3](#) [2008/12/29 19:14:4944.521-110.3691.8](#)
[MAP1.2](#) [2008/12/29 18:47:4544.523-110.3712.1](#)
[MAP1.4](#) [2008/12/29 18:40:0044.533-110.3594.8](#)
[MAP1.1](#) [2008/12/29 16:32:1244.494-110.3602.4](#)
[MAP1.6](#) [2008/12/29 16:31:5544.491-110.3602.3](#)
[MAP1.2](#) [2008/12/29 16:15:2844.480-110.3632.3](#)
[MAP1.5](#) [2008/12/29 14:58:3744.486-110.3541.3](#)
[MAP1.7](#) [2008/12/29 10:25:1844.523-110.3712.4](#)
[MAP1.8](#) [2008/12/29 09:14:0444.527-110.3760.3](#)
[MAP2.4](#) [2008/12/29 08:57:5544.527-110.3780.5](#)
[MAP2.4](#) [2008/12/29 08:28:2444.527-110.3820.4](#)
[MAP2.0](#) [2008/12/29 05:30:3544.517-110.3721.0](#)
[MAP2.3](#) [2008/12/29 05:30:0444.477-110.3496.5](#)
[MAP1.7](#) [2008/12/29 05:29:2344.489-110.3544.2](#)
[MAP2.4](#) [2008/12/29 05:23:3644.516-110.3616.4](#)
[MAP1.9](#) [2008/12/29 04:29:1844.522-110.3851.0](#)
[MAP2.8](#) [2008/12/29 04:25:5344.514-110.3700.1](#)

Yellowstone, MT
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MAP2.6	2008/12/28 23:57:5644.521-110.3711.4	60 km (37 mi) ESE of West Yellowstone, MT
MAP2.0	2008/12/28 23:08:2544.491-110.3901.7	60 km (37 mi) ESE of West Yellowstone, MT
MAP3.1	2008/12/28 19:55:1744.511-110.3530.7	62 km (39 mi) ESE of West Yellowstone, MT
MAP3.0	2008/12/28 19:32:1544.511-110.3562.7	62 km (38 mi) ESE of West Yellowstone, MT
MAP2.8	2008/12/28 15:37:4044.514-110.3590.0	61 km (38 mi) ESE of West Yellowstone, MT
MAP2.2	2008/12/28 09:25:1444.508-110.3641.9	61 km (38 mi) ESE of West Yellowstone, MT
MAP3.2	2008/12/28 09:23:5744.511-110.3610.4	61 km (38 mi) ESE of West Yellowstone, MT
MAP1.5	2008/12/28 08:41:3344.509-110.3592.5	62 km (38 mi) ESE of West Yellowstone, MT
MAP2.2	2008/12/28 08:23:4144.506-110.3690.1	61 km (38 mi) ESE of West Yellowstone, MT
MAP1.1	2008/12/28 08:22:4644.499-110.3622.5	62 km (38 mi) ESE of West Yellowstone, MT
MAP1.3	2008/12/28 08:22:2444.499-110.3612.3	62 km (38 mi) ESE of West Yellowstone, MT
MAP1.7	2008/12/28 08:15:3344.499-110.3642.1	62 km (38 mi) ESE of West Yellowstone, MT
MAP1.0	2008/12/28 08:14:5844.501-110.3805.3	60 km (37 mi) ESE of West Yellowstone, MT
MAP1.9	2008/12/28 07:16:1344.513-110.3742.0	60 km (37 mi) ESE of West Yellowstone, MT
MAP2.5	2008/12/28 07:15:1844.495-110.3590.0	62 km (39 mi) ESE of West Yellowstone, MT
MAP2.5	2008/12/28 06:37:4144.492-110.3562.6	62 km (39 mi) ESE of West Yellowstone, MT
MAP2.0	2008/12/28 06:37:2044.497-110.3792.1	60 km (38 mi) ESE of West Yellowstone, MT
MAP1.9	2008/12/28 05:28:4944.498-110.3832.3	60 km (37 mi) ESE of West Yellowstone, MT
MAP1.9	2008/12/28 05:28:0544.485-110.3712.5	61 km (38 mi) ESE of West Yellowstone, MT
MAP1.8	2008/12/28 05:26:1444.484-110.3592.0	62 km (39 mi) ESE of West Yellowstone, MT
MAP1.2	2008/12/28 05:26:0344.470-110.3555.2	63 km (39 mi) ESE of West Yellowstone, MT
MAP1.3	2008/12/28 05:24:3944.489-110.3594.1	62 km (39 mi) ESE of West Yellowstone, MT
MAP2.8	2008/12/28 05:23:5444.489-110.3542.5	63 km (39 mi) ESE of West Yellowstone, MT
MAP1.9	2008/12/28 05:21:1644.480-110.3444.0	64 km (40 mi) ESE of West Yellowstone, MT
MAP1.7	2008/12/28 05:20:1044.494-110.3792.4	61 km (38 mi) ESE of West

MAP1.6	2008/12/28 05:19:1144.492-110.3722.2	Yellowstone, MT 61 km (38 mi) ESE of West Yellowstone, MT
MAP3.9	2008/12/28 05:15:5644.502-110.3660.3	61 km (38 mi) ESE of West Yellowstone, MT
MAP2.6	2008/12/28 00:08:5044.493-110.3540.4	63 km (39 mi) ESE of West Yellowstone, MT
MAP3.3	2008/12/27 22:30:0344.498-110.3584.3	62 km (39 mi) ESE of West Yellowstone, MT
MAP1.5	2008/12/27 22:28:5344.500-110.3682.1	61 km (38 mi) ESE of West Yellowstone, MT
MAP1.8	2008/12/27 22:27:3644.499-110.3672.5	61 km (38 mi) ESE of West Yellowstone, MT
MAP1.0	2008/12/27 21:28:0644.500-110.3623.5	62 km (38 mi) ESE of West Yellowstone, MT
MAP1.6	2008/12/27 21:22:0844.495-110.3722.6	61 km (38 mi) ESE of West Yellowstone, MT
MAP2.1	2008/12/27 21:08:4944.496-110.3702.0	61 km (38 mi) ESE of West Yellowstone, MT
MAP3.2	2008/12/27 20:26:2744.505-110.3642.4	61 km (38 mi) ESE of West Yellowstone, MT
MAP3.5	2008/12/27 20:17:3344.488-110.3574.1	62 km (39 mi) ESE of West Yellowstone, MT
MAP2.3	2008/12/27 18:56:3544.484-110.3670.5	62 km (38 mi) ESE of West Yellowstone, MT
MAP3.0	2008/12/27 18:23:0744.495-110.3642.8	62 km (38 mi) ESE of West Yellowstone, MT
MAP2.0	2008/12/27 18:21:3644.493-110.3627.2	62 km (38 mi) ESE of West Yellowstone, MT
MAP1.2	2008/12/27 17:01:4644.484-110.3732.4	61 km (38 mi) ESE of West Yellowstone, MT
MAP2.7	2008/12/27 17:01:0744.490-110.3661.2	62 km (38 mi) ESE of West Yellowstone, MT
MAP2.6	2008/12/27 16:30:5444.498-110.3622.5	62 km (38 mi) ESE of West Yellowstone, MT

E-mail Properties

Mail Envelope Properties ()

Subject: RE: how to file a FOIA request with the NRC
 Sent Date: 4/30/2009 1:54:11 PM
 Received Date: 4/30/2009 1:56:00 PM
 From: Fred Lyon

Created By: Fred.Lyon@nrc.gov

Recipients:

lakosh@gci.net (lakosh@gci.net)

Tracking Status: None

Post Office:

Files	Size	Date & Time
MESSAGE	156594	4/30/2009

Options

Expiration Date:

Priority: olImportanceNormal

ReplyRequested: False

Return Notification: False

Sensitivity: olNormal

Recipients received: