



RESPONSE TO FREEDOM OF INFORMATION ACT (FOIA) REQUEST

FOIA 2016-0393

1

RESPONSE
TYPE

☐

INTERIM

☒

FINAL

REQUESTER:

Charles J. Fitzpatrick

DATE:

05/06/2016

DESCRIPTION OF REQUESTED RECORDS:

All documents meeting the listed descriptions, with respect to NUREG/CR-7209 ("A Compendium of Spent Fuel Transportation Package Response Analyses to Severe Fire Accident Scenarios")

PART I. -- INFORMATION RELEASED

- ☐ Agency records subject to the request are already available in public ADAMS or on microfiche in the NRC Public Document Room.
- ☒ Agency records subject to the request are enclosed.
- ☐ Records subject to the request that contain information originated by or of interest to another Federal agency have been referred to that agency (see comments section) for a disclosure determination and direct response to you.
- ☐ We are continuing to process your request.
- ☒ See Comments.

PART I.A -- FEES

AMOUNT*

\$

1,690.80

*See Comments for details

☐

You will be billed by NRC for the amount listed.

☐

None. Minimum fee threshold not met.

☐

You will receive a refund for the amount listed.

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Fees waived.

PART I.B -- INFORMATION NOT LOCATED OR WITHHELD FROM DISCLOSURE

- ☐ We did not locate any agency records responsive to your request. *Note:* Agencies may treat three discrete categories of law enforcement and national security records as not subject to the FOIA ("exclusions"). 5 U.S.C. 552(c). This is a standard notification given to all requesters; it should not be taken to mean that any excluded records do, or do not, exist.
- ☐ We have withheld certain information pursuant to the FOIA exemptions described, and for the reasons stated, in Part II.
- ☐ Because this is an interim response to your request, you may not appeal at this time. We will notify you of your right to appeal any of the responses we have issued in response to your request when we issue our final determination.
- ☒ You may appeal this final determination within 30 calendar days of the date of this response by sending a letter or email to the FOIA Officer, at U.S. Nuclear Regulatory Commission, Washington, D.C. 20555-0001, or FOIA.Resource@nrc.gov. Please be sure to include on your letter or email that it is a "FOIA Appeal."

PART I.C COMMENTS (Use attached Comments continuation page if required)

The attached are the results of the search after your discussion with staff that you sought any background information as to the planning, funding and review of NUREG/CR-7209 and not the drafting of the same.
The incoming request will be made available in ADAMS as ML16081A180. Records with an ML accession number are publicly available in the NRC's Public Electronic Reading Room at <http://www.nrc.gov/reading-rm.html>. If you need assistance in obtaining these records, please contact the NRC's Public Document Room (PDR) at 301-415-4737, or 1-800-397-4209, or by email to PDR.Resource@nrc.gov.

SIGNATURE - FREEDOM OF INFORMATION ACT OFFICER

Roger Andoh

FOIA 2016-0393

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**RESPONSE TO FREEDOM OF INFORMATION
ACT (FOIA) REQUEST Continued**

RESPONSE
TYPE

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INTERIM

☒

FINAL

REQUESTER:

Charles J. Fitzpatrick

DATE:

05/06/2016

PART I.C COMMENTS (Continued)

*The fees have been paid in advance.

JCN J5701

MONTHLY BUSINESS LETTER REPORT

For May 2014

Project Title:	Spent Fuel Review Assistance
Period of Performance:	January 1, 2012 – December 31, 2016
JCN:	J5701
PNNL Project Manager:	H. E. Adkins (509-372-6629)
Address:	PO Box 999, Mail Stop K7-15 Richland, WA 99352
Facsimile:	509-375-3865
NRC Project Manager:	T. L. Clark (301-287-9186)
NRC Technical Monitor:	J. Piotter (301-287-9209)

Project Objective: The objective of this agreement is to obtain technical assistance: (1) on the review of vendor applications for Certificates of Compliance (CoCs) for spent fuel or radioactive material storage casks and transportation package system designs and (2) with developing analysis models of spent fuel casks in the thermal and structural areas.

PROGRESS DURING REPORTING PERIOD

Outside of Scope

JCN J5701

Outside of Scope

Outside of Scope

Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor:
J. Piotter)

- PNNL staff began work on the fire compendium plan and structuring of the report. Rail and roadway transport modes will be covered. Contents will include recaps of accident histories involving fires and summaries of analyses that have been done for hypothetical accidents involved in the worst of these fires. Regulations will be discussed, both from a historical perspective and from the standpoint of how current regulations stand up against fire experience and predicted consequence to transport packages. During the reporting period, reference documents were identified and collected, and the review of those documents has begun.

Outside of Scope

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Outside of Scope

JCN J5701

Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor: J. Plotter)

Outside of Scope

- PNNL staff will continue reference collection and report reviews to support outlining and generation of the Fire Compendium Report. An outline will be prepared for review by the NRC TM during PNNL staff visit to NRC HQ. PNNL staff will begin the report draft.
- Harold Adkins will be visiting NRC HQ to discuss the planned completion of the Fire Compendium Report with the NRC TM on June 24th and 25th.

Outside of Scope

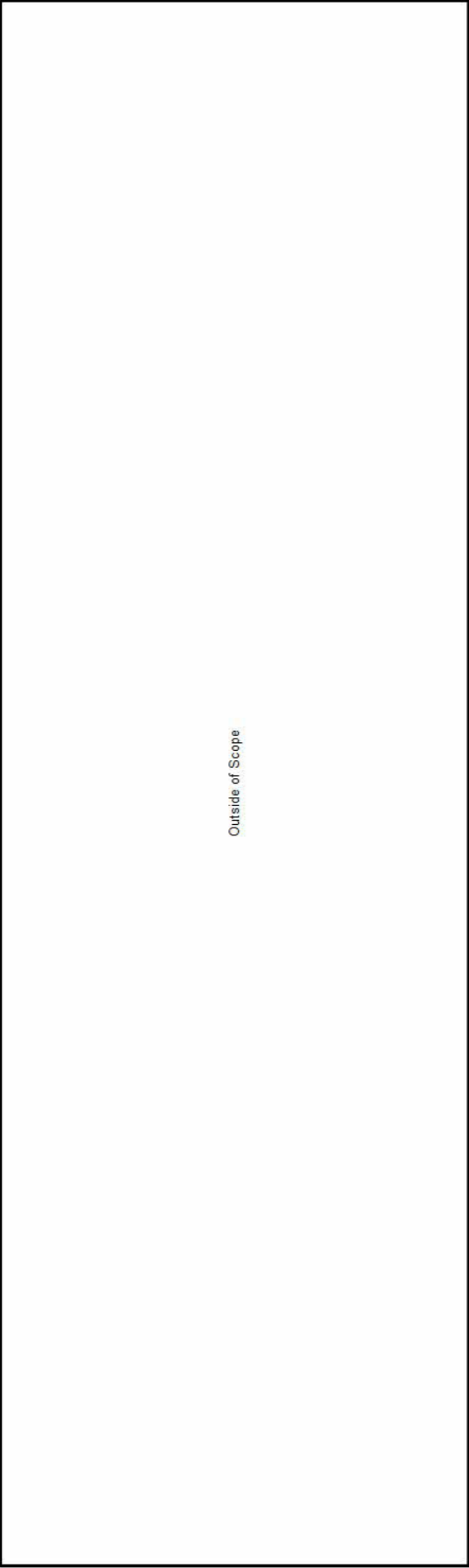
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MONTHLY BUSINESS LETTER REPORT

For June 2014

Project Title: Spent Fuel Review Assistance
Period of Performance: January 1, 2012 – December 31, 2016
JCN: J5701
PNNL Project Manager: H. E. Adkins (509-372-6629)
Address: PO Box 999, Mail Stop K7-15
Richland, WA 99352
Facsimile: 509-375-3865
NRC Project Manager: T. L. Clark (301-287-9186)
NRC Technical Monitor: J. Piotter (301-287-9209)

Project Objective: The objective of this agreement is to obtain technical assistance: (1) on the review of vendor applications for Certificates of Compliance (CoCs) for spent fuel or radioactive material storage casks and transportation package system designs and (2) with developing analysis models of spent fuel casks in the thermal and structural areas.

PROGRESS DURING REPORTING PERIOD

Outside of Scope

Outside of Scope

Outside of Scope

Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor: J. Piotter)

- PNNL staff continued work on the fire compendium plan and structuring of the report. Rail and roadway transport modes will be covered in a single document. Contents will include recaps of accident histories involving fires and summaries of analyses that have been done for hypothetical accidents involved in the worst of these fires. Regulations will be discussed, both from a historical perspective and from the standpoint of how

JCN J5701

current regulations stand up against fire experience and predicted consequence to transport packages. During the reporting period, a straw man draft of the fire compendium report was completed following the initial outline provided by NRC and as shown in the fire compendium plan. Report sections are being prepared, including fire analysis case study summaries for four fire accident scenarios, including Baltimore Tunnel Fire (NUREG/CR-6886, Rev. 2), Caldecott Tunnel Fire (NUREG/CR-6894, Rev. 1), MacArthur Maze (MM) (draft NUREG) and Newhall Pass (draft NUREG). These summaries will be inserted into the straw man draft when done. During this reporting period the first draft summary of the MM report was completed and a draft summary is in progress for the Newhall Pass report. The compendium plan, compendium straw man draft, and the first draft summary insert for the MM fire were provided to the NRC TM for discussion during Harold Adkins' visit to NRC HQ on June 24th and 25th.

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Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor: J. Piotter)

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- PNNL staff will continue work on the fire analysis report summaries for insert into an initial draft of the Fire Compendium Report.

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MONTHLY BUSINESS LETTER REPORT

For July 2014

Project Title:	Spent Fuel Review Assistance
Period of Performance:	January 1, 2012 – December 31, 2016
JCN:	J5701
PNNL Project Manager:	H. E. Adkins (509-372-6629)
Address:	PO Box 999, Mail Stop K7-15 Richland, WA 99352
Facsimile:	509-375-3865
NRC Project Manager:	T. L. Clark (301-287-9186)
NRC Technical Monitor:	J. Piotter (301-287-9209)

Project Objective: The objective of this agreement is to obtain technical assistance: (1) on the review of vendor applications for Certificates of Compliance (CoCs) for spent fuel or radioactive material storage casks and transportation package system designs and (2) with developing analysis models of spent fuel casks in the thermal and structural areas.

PROGRESS DURING REPORTING PERIOD

Outside of Scope

Outside of Scope

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Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor: J. Plotter)

- PNNL staff continued work on the fire compendium report. Rail and roadway transport modes will be covered in a single document. Contents will include recaps of accident histories involving fires and summaries of analyses that have been done for hypothetical accidents involved in the worst of these fires. Regulations will be discussed, both from a historical perspective and from the standpoint of how current regulations stand up against fire experience and predicted consequence to transport packages. During the reporting period, an initial draft of the fire compendium report was completed and circulated for internal review. Additional content for several report sections is being prepared for the final draft.

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Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor: J. Potter)

Outside of Scope

- PNNL staff will incorporate internal review comments and recommendations with updated sections to produce a new draft of the Fire Compendium Report.

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MONTHLY BUSINESS LETTER REPORT

For August 2014

Project Title:	Spent Fuel Review Assistance
Period of Performance:	January 1, 2012 – December 31, 2016
JCN:	J5701
PNNL Project Manager:	H. E. Adkins (509-372-6629)
Address:	PO Box 999, Mail Stop K7-15 Richland, WA 99352
Facsimile:	509-375-3865
NRC Project Manager:	T. L. Clark (301-287-9186)
NRC Technical Monitor:	J. Piottter (301-287-9209)

Project Objective: The objective of this agreement is to obtain technical assistance: (1) on the review of vendor applications for Certificates of Compliance (CoCs) for spent fuel or radioactive material storage casks and transportation package system designs and (2) with developing analysis models of spent fuel casks in the thermal and structural areas.

PROGRESS DURING REPORTING PERIOD

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Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor:
J. Piotter)

Outside of Scope

- PNNL staff continued work on the fire compendium report. Rail and roadway transport modes will be covered in a single document. Contents will include recaps of accident histories involving fires and summaries of analyses that have been done for hypothetical accidents involved in the worst of these fires. Regulations will be discussed, both from a historical perspective and from the standpoint of how current regulations stand up against fire experience and predicted consequence to transport packages. During the reporting period, the initial draft of the fire compendium report was completed with all sections and was circulated for internal review.

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Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor: J. Piotter)

Outside of Scope

- PNNL staff will incorporate internal review comments and recommendations to produce a final draft of the Fire Compendium Report.

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MONTHLY BUSINESS LETTER REPORT

For September 2014

Project Title:	Spent Fuel Review Assistance
Period of Performance:	January 1, 2012 – December 31, 2016
JCN:	J5701
PNNL Project Manager:	H. E. Adkins (509-372-6629)
Address:	PO Box 999, Mail Stop K7-15 Richland, WA 99352
Facsimile:	509-375-3865
NRC Project Manager:	T. L. Clark (301-287-9186)
NRC Technical Monitor:	J. Piotter (301-287-9209)

Project Objective: The objective of this agreement is to obtain technical assistance: (1) on the review of vendor applications for Certificates of Compliance (CoCs) for spent fuel or radioactive material storage casks and transportation package system designs and (2) with developing analysis models of spent fuel casks in the thermal and structural areas.

PROGRESS DURING REPORTING PERIOD

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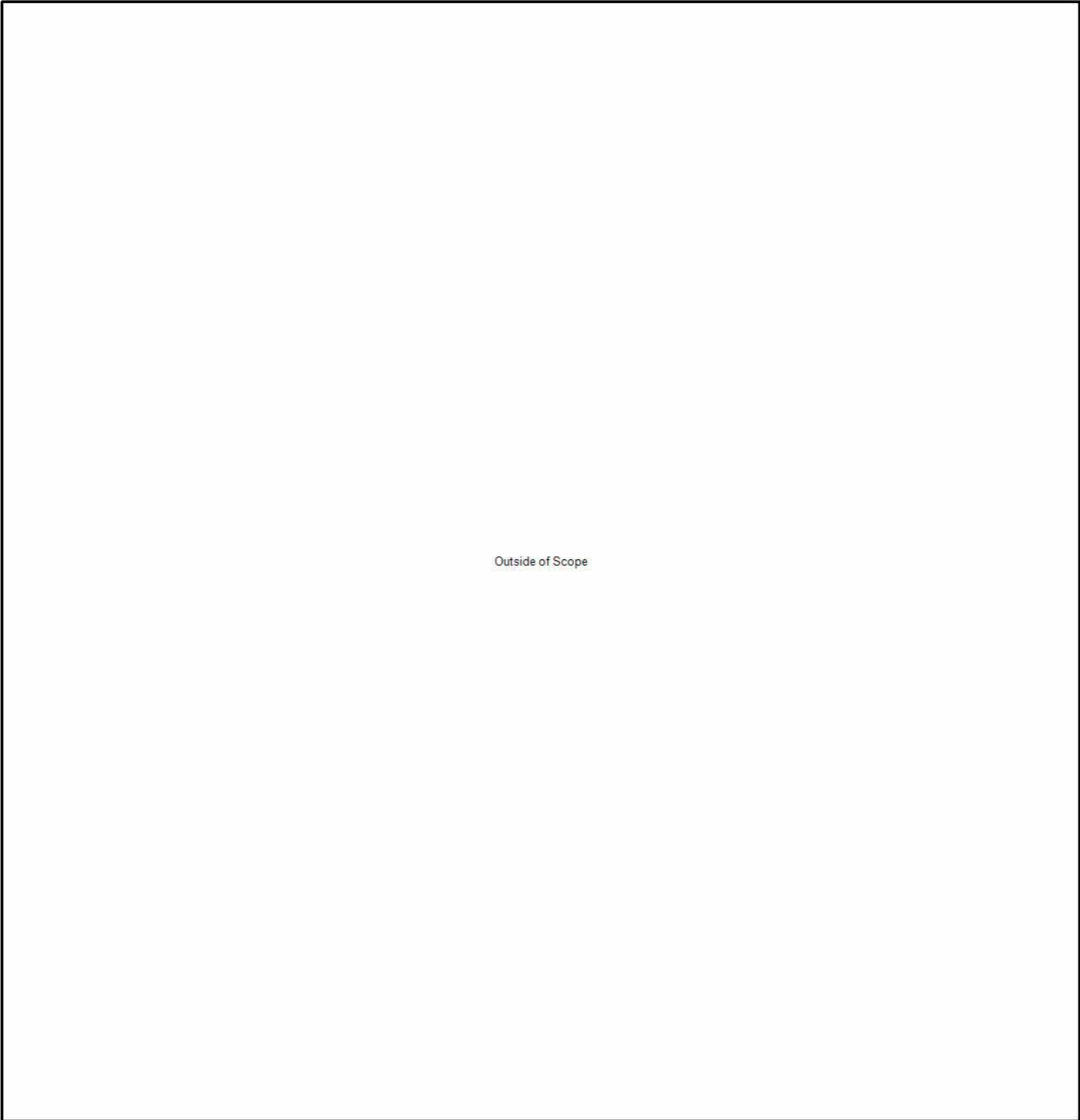
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Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor: J. Piotter)

Outside of Scope

- PNNL staff continued work on the fire compendium report. Rail and roadway transport modes will be covered in a single document. Contents include recaps of accident histories involving fires and summaries of analyses that have been done for hypothetical accidents involved in the worst of these fires. Regulations will be discussed, both from a historical perspective and from the standpoint of how current regulations stand up against fire experience and predicted consequence to transport packages. During the reporting period, the initial draft of the fire compendium report was completed with all sections and was circulated for internal review.

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Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor: J. Piotter)

Outside of Scope

- PNNL staff will incorporate internal review comments and recommendations to produce a final draft of the Fire Compendium Report.

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MONTHLY BUSINESS LETTER REPORT

For October 2014

Project Title:	Spent Fuel Review Assistance
Period of Performance:	January 1, 2012 – December 31, 2016
JCN:	J5701
PNNL Project Manager:	H. E. Adkins (509-372-6629)
Address:	PO Box 999, Mail Stop K7-15 Richland, WA 99352
Facsimile:	509-375-3865
NRC Contracting Officer Representative (COR):	J. M. Piottter (301-287-0646)

Project Objective: The objective of this agreement is to obtain technical assistance: (1) on the review of vendor applications for Certificates of Compliance (CoCs) for spent fuel or radioactive material storage casks and transportation package system designs and (2) with developing analysis models of spent fuel casks in the thermal and structural areas.

PROGRESS DURING REPORTING PERIOD

Outside of Scope

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Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor:
J. M. Plotter)

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Outside of Scope

- PNNL staff continued work on the fire compendium report. Rail and roadway transport modes will be covered in a single document. Contents include recaps of accident histories involving fires and summaries of analyses that have been done for hypothetical

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accidents involved in the worst of these fires. Regulations will be discussed, both from a historical perspective and from the standpoint of how current regulations stand up against fire experience and predicted consequence to transport packages. During the reporting period, the initial draft of the fire compendium report was completed with all sections and was circulated for internal review.

Outside of Scope

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Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor:
J. M. Piotter)

- PNNL staff will incorporate internal review comments and recommendations to produce a final draft of the Fire Compendium Report.

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MONTHLY BUSINESS LETTER REPORT

For December 2014

Project Title: Spent Fuel Review Assistance
Period of Performance: January 1, 2012 – December 31, 2016
JCN: J5701
PNNL Project Manager: H. E. Adkins (509-372-6629)
Address: PO Box 999, Mail Stop K7-15
Richland, WA 99352
Facsimile: 509-375-3865
NRC Contracting Officer
Representative (COR): J. M. Piotter (301-287-0646)

Project Objective: The objective of this agreement is to obtain technical assistance: (1) on the review of vendor applications for Certificates of Compliance (CoCs) for spent fuel or radioactive material storage casks and transportation package system designs and (2) with developing analysis models of spent fuel casks in the thermal and structural areas.

PROGRESS DURING REPORTING PERIOD

The following events occurred or activities were performed during this reporting period:

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Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor:
J. M. Plotter)

- PNNL staff continued work on the fire compendium report. Rail and roadway transport modes will be covered in a single document. Contents include recaps of accident histories involving fires and summaries of analyses that have been done for hypothetical accidents involved in the worst of these fires. Regulations will be discussed, both from a historical perspective and from the standpoint of how current regulations stand up against fire experience and predicted consequence to transport packages. During this reporting period, the initial draft of the fire compendium report underwent internal technical and editorial reviews.

Outside of Scope

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Outside of Scope

Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor:
J. M. Piotter)

- When funding is made available and authorization to proceed is received, PNNL staff will incorporate internal technical and editorial review comments and recommendations to produce a final draft of the Fire Compendium Report.

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MONTHLY BUSINESS LETTER REPORT

For January 2015

Project Title:	Spent Fuel Review Assistance
Period of Performance:	January 1, 2012 – December 31, 2016
JCN:	J5701
PNNL Project Manager:	H. E. Adkins (509-372-6629)
Address:	PO Box 999, Mail Stop K7-15 Richland, WA 99352
Facsimile:	509-375-3865
NRC Contracting Officer Representative (COR):	J. M. Piottter (301-287-0646)

Project Objective: The objective of this agreement is to obtain technical assistance: (1) on the review of vendor applications for Certificates of Compliance (CoCs) for spent fuel or radioactive material storage casks and transportation package system designs and (2) with developing analysis models of spent fuel casks in the thermal and structural areas.

PROGRESS DURING REPORTING PERIOD

Outside of Scope

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Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor:
J. M. Piotter)

- PNNL staff temporarily postponed work on the fire compendium report until incremental funding is provided.

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Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor:
J. M. Pirotter)

- When incremental funding is made available and authorization to proceed is received, PNNL staff will incorporate internal technical and editorial review comments and recommendations to produce a final draft of the Fire Compendium Report.

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MONTHLY BUSINESS LETTER REPORT

For February 2015

Project Title: Spent Fuel Review Assistance
Period of Performance: January 1, 2012 – December 31, 2016
JCN: J5701
PNNL Project Manager: H. E. Adkins (509-372-6629)
Address: PO Box 999, Mail Stop K7-15
Richland, WA 99352
Facsimile: 509-375-3865
NRC Contracting Officer
Representative (COR): J. M. Piotter (301-287-0646)

Project Objective: The objective of this agreement is to obtain technical assistance: (1) on the review of vendor applications for Certificates of Compliance (CoCs) for spent fuel or radioactive material storage casks and transportation package system designs and (2) with developing analysis models of spent fuel casks in the thermal and structural areas.

PROGRESS DURING REPORTING PERIOD

Outside of Scope

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Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor:
J. M. Piotter)

- PNNL staff temporarily postponed work on the fire compendium report until incremental funding is provided.

Outside of Scope

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Outside of Scope

Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor:
J. M. Plotter)

- When incremental funding is made available and authorization to proceed is received, PNNL staff will incorporate internal technical and editorial review comments and recommendations to produce a final draft of the Fire Compendium Report.

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MONTHLY BUSINESS LETTER REPORT

For March 2015

Project Title: Spent Fuel Review Assistance
Period of Performance: January 1, 2012 – December 31, 2016
JCN: J5701
PNNL Project Manager: H. E. Adkins (509-372-6629)
Address: PO Box 999, Mail Stop K7-15
Richland, WA 99352
Facsimile: 509-375-3865
NRC Contracting Officer
Representative (COR): J. M. Piotter (301-287-0646)

Project Objective: The objective of this agreement is to obtain technical assistance: (1) on the review of vendor applications for Certificates of Compliance (CoCs) for spent fuel or radioactive material storage casks and transportation package system designs and (2) with developing analysis models of spent fuel casks in the thermal and structural areas.

PROGRESS DURING REPORTING PERIOD

Outside of Scope

JCN J5701

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Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor:
J. M. Piotter)

Outside of Scope

See prior comment --
aren't these two
scenarios part of the
compendium....

Outside of Scope

Outside of Scope

Outside of Scope

Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor:
J. M. Piotter)

Outside of Scope

- PNNL staff will incorporate internal technical and editorial review comments and recommendations, to further the goal of producing a draft of the Fire Compendium Report for final review, after the MM and NP reports are in final form.

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MONTHLY BUSINESS LETTER REPORT

For September 2015

Project Title:	Spent Fuel Review Assistance
Period of Performance:	January 1, 2012 – December 31, 2016
JCN:	J5701
PNNL Project Manager:	H. E. Adkins (509-372-6629)
Address:	PO Box 999, Mail Stop K7-15 Richland, WA 99352
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PROGRESS DURING REPORTING PERIOD

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Outside of Scope

Outside of Scope

Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor:
J. M. Plotter)

Outside of Scope

- The schedule for completion of the Fire Compendium report follows after completion of the MM and NP Fire reports. A draft version of the Fire Compendium report was submitted to NRC at the end of July and initial comments from NRC staff were received on August 18, 2015. During this report period, these comments were addressed in a revised draft that will be delivered to NRC by September 30, 2015.

Outside of Scope

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Task Area 3: Severe Accident Studies for Fuel Performance (NRC Technical Monitor:
J. M. Piotter)

- PNNL staff will provide rapid turn-around response to any questions or other issues raised by NRC Publications, relative to their processing of the MM and NP reports delivered in the current reporting period. The completed version of the Compendium document will be provided to NRC by September 30, 2015 after addressing comments in the NRC review.

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