					1. ECN 63049	8
	ENGINEERING	CHANGE NOTICE	Pas	je 1 of _ 2	Proj. ECN	
2. ECN Category (mark one)	3. Originator's Name and Telephone No.	, Organization, MSIN,	4. USQ Requi	ired?	5. Date 12/3/98 JRE,	
Supplemental []	L. J. Garvin/SI 372-0883	NFP/R3-26/	[] Yes	[X] No	H/25/78	
Change ECN [] Temporary []	6. Project Title/No.		7. Bldg./Sys		8. Approval Designator	
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Cancel/Void []	9. Document Numbers Gincludes sheet n WhatHWF-SD-SNF-	o. and rev.)	630-		N/A	
12a. Modification Work	12b. Work Package No.	12c. Madification Work (Complete		ed to Original Condi- or Standby ECN only)	
[] Yes (fill out Blk.	N/A	N/A		N/A	, .	
12b) [X] No (NA Biks. 12b, 12c, 12d)		Design Authority/Cog. Signature & Da			uthority/Cog. Engineer	
13a. Description of Change	<u> </u>	13b. Design Baseline] Yes [X] No	
• The definition of 10 CFR 72.3 def	of "important to inition	safety" was chang	ed to be	in line wi	ith the	
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ENGIN	EERING CHAI	NGE NOTICE	Page 2 of 2	630498	
16. Design Verification Required	17. Cost Impact ENGINEERING	G CONSTR	UCTION	18. Schedule Impact (da	ays)
[] Yes	Additional []	\$ N/A Additional	F 7 \$ N/A	Improvement []	N/A
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that will be aff	view: Indicate the refected by the change d	elated documents (other than t escribed in Block 13. Enter t	he engineering do he effected docum	ment number in Block 20.	de 1)
SDD/DD		Seismic/Stress Analysis	[]	Tenk Calibration Manual	[]
Functional Design Cr		Stress/Design Report	[]	Health Physics Procedure	[]
Operating Specificat		Interface Control Drawing	L J	Spares Multiple Unit Listing Test	[]
Criticality Specific	ation []	Calibration Procedure	[]	Procedures/Specification	[]
Conceptual Design Re	port []	Installation Procedure	Γ٦	Component Index	Γ٦
Equipment Spec.	ĺχΪ	Maintenance Procedure	įį	ASME Coded Item	ក់តំ
Const. Spec.	[]	Engineering Procedure	נֿ <u>ז</u>	Human Factor Consideration	וֹ זֹ
Procurement Spec.	Гх٦	Operating Instruction	ΓΊ	Computer Software	Г1
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OM Manuel	[]	Operational Safety Requirement	[,]	ICRS Procedure	[]
FSAR/SAR	[x]	CEFD Drawing	[]	Process Control Manual/Plan	[]
Safety Equipment Lis	t [x]	Cell Arrangement Drawing	[]	Process Flow Chart	[]
Radiation Work Permi	t []	Essential Material Specification	[]	Purchase Requisition	[]
Environmental Impact Statement	: []	Fac. Proc. Samp. Schedule	[]	Tickler File	[]
Environmental Report	[]	Inspection Plan	[]		[]
Environmental Permit	[]	Inventory Adjustment Request	[]		[]
indicate that the	e signing organization per/Revision	ouments listed below will not I has been notified of other a Document Number/Revisi	ffected documents	s ECM.) Signatures belo : listed below. Document Number Revisi	
21. Approvals				<u> </u>	
Cog. Eng. L. J. Gar Cog. Mgr. L. J. Gar QA C. R. Hoover C. Safety T. D. HerkEr Environ. J. E. Turn Other (See Below) J. D. Cloud L. H. Goldmann Jov. B. D. Lorenz K. E. Smith	rin Allana Republika	5/72/98 PE 6/2/98 OA 7/23/98 DE 6-1-98 OC 41:198 6/1/98 DE 6/1/98 DE 6/1/98 DE 6/1/98 DE	sign Agent fety sign viron. Her PARTHENT OF ENERG TACKS the Approval PROVA Letter	rol Number that	Date
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Spent Nuclear Fuel Project Multi-Canister Overpack, Additional **NRC** Requirements

L. J. Garvin

Fluor Daniel Northwest, Inc., Richland, WA 99352 U.S. Department of Energy Contract DE-AC06-96RL13200

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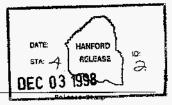
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HNF-SD-SNF-DB-005

Page 1

(2) Title

Spent Nuclear Fuel Project Multi-Canister Overpack, Additional NRC Requirements (ECN 630498)

	CHANGE CONTROL RECORD		
(3) Revision	(4) Description of Change - Replace, Add, and Delete Pages	Authori	zed for Release
		(5) Cog. Engr.	(6) Cog. Mgr. Date
	(7)		
1	ECN: 630479 Minor changes. Repaired wording in several places to make it sound like a requirement. Also, clarification as to what a requirement did not apply to. For example, K Basin crane # 13.	:	
2	ECN: 630486 Revised terminology (SNFP to SNF Project) to be consistent with current SNF Project documents, including conditioning facility to Hot Conditioning System (HCS).		
	Rewrote item 6 in Table 1 to delete reference to WHC Procurement Clause E13 (Reporting of Safety Defects and Noncompliance), since that clause has been deleted. Added WHC-CM-2-1 as a related WHC reference, since this controlled manual governs procurement activities.		
	Revised item 11 on part 72 "important to safety" due to direction by DOE-RL.		
	Deleted the third bullet under item 13, which was coupled to the Part 72 "important to safety" <u>due</u> to direction by DOE-RL.		
3 ç5 .	ECN: 630498 • The definition of "important to safety" was changed to be in line with the 10 CFR 72.3 definition	L. J. Garvin	L. J. Garvin
	· The WHC procedures were changed to HNF-PRO series of procedures	SINGE	5/11/98
	· Minor editorial changes		<u> </u>
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MULTI-CANISTER OVERPACK

ADDITIONAL NRC REQUIREMENTS

September 1998 June 1996

Prepared for the U.S. Department of Energy Office of Environmental Restoration and Waste Management

Westinghouse Hanford Company P. O. Box 1970 Richland, Washington 99352

HNF-SD-SNF-DB-005, Rev. 3

Multi-Canister Overpack

Additional NRC Requirements

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Multi-Canister Overpack

Additional NRC Requirements

I. Introduction and Purpose

The U.S. Department of Energy (DOE), established in the K Basin Spent Nuclear Fuel Project - Regulatory Policy, dated August 4, 1995 (hereafter referred to as the Policy), the requirement for new Spent Nuclear Fuel (SNF) Project facilities to achieve "nuclear safety equivalency" to comparable U.S. Nuclear Regulatory Commission (NRC)-licensed facilities. For activities other than during transport. when the Multi-Canister Overpack (MCO) is used and resides in the Canister Storage Building (CSB) Cold Vacuum Drying (CVD) facility-or-Hot Conditioning System, additional NRC requirements will also apply to the MCO based on the safety functions it performs and its interfaces with the SNF Project facilities. reconferences may be satisfied by the MCO or the facility. An evaluation was performed in consideration of the MCO safety functions to identify any additional NRC requirements needed, in combination with the existing and applicable DOE requirements, to establish nuclear safety equivalency for the MCO. The background, basic safety issues and general comparison of NRC and DOE requirements for the SNF Project are presented in WHC-SD-SNF-DB-002, Spent Nuclear Fuel Project Path Forward Nuclear Safety Equivalency to Comparable NRC-Licensed Facilities.

II. Scope

In accordance with the Policy, the scope of potentially applicable NRC technical requirements are the design and construction (fabrication) measures (as opposed to also including preoperational or operational measures) mandated by the NRC regulations, for the purposes of this evaluation, Title 10 Code of Federal Regulations, Parts 0 through 199, revised as of January 1, 1995. In addition, NRC guidance (located in NRC public document rooms as of September 18, 1995) that may have direct application to SNF Project design and construction activities, was reviewed as a prudent step in implementing the Policy's objectives.

In implementing the Policy, nuclear safety equivalency is being established on a onetime basis with respect to the NRC regulations and guidance, based on the dates in the preceding paragraph. For DOE requirements, used to establish nuclear safety equivalency, that may change in the future (e.g., if DOE 5480.7A was reissued as DOE 5480.7B), those changes would need to be reviewed to ensure that nuclear safety equivalency remained to be preserved through the use of the new order, or the

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relevant historical DOE requirements, now deleted in the new order, would need to be specifically identified as a separate SNF Project-specific requirement and implemented accordingly. This latter control must be applied to WHC procedures and instructions as well where such documents were used to establish nuclear safety equivalency.

III. Results

Table 1 lists the MCO additional NRC requirements and identifies the responsible discipline(s) for implementation of the requirements (e.g., civil structural and mechanical) to help facilitation by the end user. Where the table includes a reference(s), this does not imply that the identified additional NRC requirement(s) and related DOE requirements necessarily satisfy the requirements of the reference(s), or even that the SNF Project Path Forward must satisfy the requirements of the reference(s). It is simply a notation as to where the basic issue is raised, and where the reader may refer to in WHC-SD-SNF-DB-002, and NRC regulations and guidance for related information.

Recognizing that the design and safety analysis of the MCO will evolve further and be refined as the engineering progresses, the SNF Project may need to revisit the results of this document and make revisions as appropriate with DOE approval.

Table 1

MULTI-CANISTER OVERPACK ADDITIONAL NRC REQUIREMENTS

Responsible Discipline	Additional NRC Requirements	Related DOE/PHMC WHC -References
Civil/Structural and Mechanical	Ensure the containment/confinement integrity of the Multi-Canister Overpack (MCO) and its subcriticality geometry are preserved when the design basis earthquakes for the Canister Storage Building (CSB) and CVD facility-and Hot Conditioning System (HCS, also referred to as the CSB Annex), as outlined in WHC-SD-SNF-DB-004, are imposed on these facilities. Note: refer to WHC document WHC-SD-SNF-DB-004, titled Spent Nuclear Fuel Project Seismic Design Criteria, Nuclear Regulatory Commission Equivalency Evaluation Report, for details on seismic.	DOE 5480.28 and companion stds. DOE 6430.1A
	(References: Title 10, Code of Federal Regulations, Sections 72.24, "Contents of application: Technical information," 72.90, "General considerations," 72.92, "Design basis external natural events," 72.102, "Geological and seismological characteristics," 72.122, "Overall' requirements," and 72.212, "Conditions of general license issued;" Regulatory Guides 1.60, Design Response Spectra for Seismic Design of Nuclear Power Plants, Revision 1, 1.61, Damping Values for Seismic Design of Nuclear Power Plants, Revision 0, and 3.48, Standard Format and Content for the Safety Analysis Report for an Independent Spent Fuel Storage Installation {Dry Storage}, Revision 1; and SECY-93-087, Policy, Technical, and Licensing Issues Pertaining to Evolutionary and Advanced Designs)	

NOTES: Only the lead responsible disciplines are listed. It is assumed these disciplines will coordinate efforts of additional support disciplines as needed.

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Table 1

MULTI-CANISTER OVERPACK ADDITIONAL NRC REQUIREMENTS

Responsible Discipline	Additional NRC Requirements	Related DOE/PHMC WHC-References
2. Civil/ Structural and Mechanical	Ensure the containment/confinement integrity of the MCO and its subcriticality geometry are preserved when a design basis tornado (including translational velocity, rotational velocity and pressure differential) and tornado missile are imposed on the designs of the CSB and CVD facility-and HCS, taking into consideration the most recent version of Regulatory Guide 1.76, Design Basis Tornado for Nuclear Power Plants, SECY-93-087, Policy, Technical, and Licensing Issues Pertaining to Evolutionary and Advanced Light-Water Reactor (ALWR) Designs, and NUREG/CR-4461, Tornado Climatology of the Contiguous United States (potential revisions to SRP 3.5.1.4, Revision 2, Missiles Generated by Natural Phenomena). (Refer to WHC document WHC-SD-SNF-DB-002, Spent Nuclear Fuel Project Path Forward Nuclear Safety Equivalency to Comparable NRC-Licensed Facilities, Table 5.c, §\$72.24 and 72.122, for related information.)	DOE 5480.28 and companion stds. DOE 6430.1A HAVE PRO 2027 SDC 4.1, Rev. 12
3. Civil/ Structural and Mechanical	Ensure the design of the MCO supports the ability for ready retrieval. (Reference: 10 CFR 72.122, "Overall requirements")	DOE 6430.1A

Table 1

MULTI-CANISTER OVERPACK ADDITIONAL NRC REQUIREMENTS

Responsible Discipline	Additional NRC Requirements	Related DOE/PHMC WHC-References
4. Mechanical	Use Regulatory Guide 1.26 to assist in assigning the appropriate ASME Section III code classes to the MCO shell, parts and subassemblies, as applicable. (Note: NUREG/CR-3854, Fabrication Criteria for Shipping Containers, has direct application to the MCO and may be used in lieu of Regulatory Guide 1.26.) (Reference: Regulatory Guide 1.26, Quality Group Classifications and Standards for Water, Steam, and Radioactive-Waste-Containing Components of Nuclear Power Plants, Revision 3)	DOE 6430.1A
5. Mechanical	Review the NRC positions in Regulatory Guides 1.84 and 1.85 on ASME Section III code cases before using such code cases for safety class-4 applications for the MCO. The NRC positions on applicable code cases should be used in the design. Where no NRC position is stated in regards to the acceptance of a code case, that code case may be used as approved by the code Committee. (References: Regulatory Guides 1.84 and 1.85 [both Revision 30], Design and Fabrication Code Case Acceptability ASME Section III, Division 1 and Materials Code Case Acceptability ASME Section III, Division 1, respectively)	DOE 6430.1A

Table 1

MULTI-CANISTER OVERPACK ADDITIONAL NRC REQUIREMENTS

Responsible Discipline	Additional NRC Requirements	Related DOE/PHMC WHC-References
6. Programs/ Management	Incorporate a requirement into safety class—I procurement specifications for the MCO that requires suppliers to report defects and noncompliances in items or services. This requirement should be similar to the following: Safety class equipment and/or services furnished limiter this order are subject to reporting of defects. If emigning the supplier in a services contain defects that could cause a substantial safety hazard then materialists repurring to the Buser is required notes the Seller has actual knewledge that the Buyer has been adequately informed of such defect. The Seller shall evaluate the order of suspected defects. If the Seller's evaluation determines a detert does exist that could cause a substantial safety hazard, then the Seller shall orify the Buyer as soon as practicable and, in all cases, within 5 working eagly inflowing completion of the evaluation. If the Seller determines that it does not have the capability to performed. Seller's removed the Buyer in cause an evaluation to be performed. Seller's removed the Buyer in cause an evaluation, the determination. If the Seller elects to have the Buyer in cause an evaluation, the determination and correspondence shall be sear to the Buyer. Results or evaluations by the Buyer will be created to the Seller.	WHC-CM-2-1 WHC-CM-4-2

Table 1

MULTI-CANISTER OVERPACK ADDITIONAL NRC REQUIREMENTS

Responsible Discipline	Additional NRC Requirements	Related DOE/PHMC WHC-References
7. Programs/ Management	Before implementation, the DOE-Richland Operations Office will review and approve any changes to WHC SP-ELSE. Quality Assurance (Q4) Program and Implementation Plan. For the SNF Project that could be interpreted as decreasing the Quality Assurance Program's existing communents for the SNF Project. (Note: HNF-SP-1228; Quality Assurance Program Implementation Plan for Vicient Fuellates, is in the process of home revised for subsequent approval by DOE-RE. Smallers hereby lists and descriptions from WHC SP-1131 are being relocated to ES&H modern sarety documents. WHC SP-131 commission effect until DOE-RE approval is secured for HNF-SP-1238 and facility lists and descriptions are relocated to ES&H modern sately documents. (References: Itr CFR-50-Sa(a): Conditions of licenses [Quality Assurance Provisions F) Ensure the appropriate quality requirements in existing WHC procedures and instructions remain in effect (e.g., in SNF Project-specific documents) for application to MCO activities. These WHC procedures and instructions and the subject requirements are identified in WHC document WHC SD-SNF-DB-002, Spent Nuclear Fuel Project-Path Forward Nuclear Safety Equivalency to Comparable NRC Licensed Facilities, Attachment A, Detailed Evaluations, Quality Assurance Criteria (References: Part-50, Appendix B, Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants, and 10CFR72, Subpart G, Quality Assurance)	10 CFR 830.120 DOE-4700.1 WHC CM 4.2 — QR 1.0, Rev. 4 — QR 3.0, Rev. 5 — QR 4.0, Rev. 4 — QR 7.0, Rev. 4 — QR 9.0, Rev. 4 — QR 10.0, Rev. 3 — QR 14.0, Rev. 5 — QI 7.2, Rev. 5 — WHC CM 4.46 — Section 9.0, Rev. 1 WHC CM 6.1 — (manual rev. 8/8/95) WHC-IP-1026 — (manual rev 7/10/95)

Table 1 MULTI-CANISTER OVERPACK ADDITIONAL NRC REQUIREMENTS

Responsible Discipline	Additional NRC Requirements	Related DOE/PRIME WHC-References
8. Programs/ Management	Ensure for MCO fabrication that the areas of vendor and subcontractor quality assurance records and control of safety class-I purchased material, equipment, and services receive emphasis during SNF Project audits, surveillances, and assessments. (Reference: IEN 95-29)	WHC PIMC Procurement Clauses as appropriate
9. Programs/ Management	Implement the WHC Occurrence Reporting System for the design and fabrication of the MCO. (Reference: 10 CFR 50.55(e), "Conditions of construction permits")	DOE 5000.3B WHC-CM-1-5, -Section 7.1, -Rev. 0
10. Safety Documentation	Use a criticality safety value of 0.95 for k _{eff} for the MCO design, functions and related activities. (References: SRP 9.1.2, Spent Fuel Storage, Revision 3, and NUREG-0612, Control of Heavy Loads at Nuclear Power Plants, Resolution of Generic Technical Activity A-36)	DOE 5480.24 WHC-CM-4-29 -(manual rev4/17/95) HNF-PRO-333 HNF-PRO-537 HNI-PRO-540 HNF-PRO-544 HNF-PRO-544

Table 1

MULTI-CANISTER OVERPACK ADDITIONAL NRC REQUIREMENTS

Responsible Discipline	Additional NRC Requirements	Related DOE/PIPME WHC-References
11. Safety Documentation	Impose the requirements of "important to safety" in accordance with Section 72.3, as implemented through Section 72.106, on the MCO. Once structures, systems and components "important to safety" have been identified, impose the requirements for safety class 1 SSCs as defined in WHC CM 4.46, Safety Analysis Manual, Section 9.0, Revision 1, Safety Classification of Structures, Systems, and Components.) Identity SSCs Important to safety in accordance with 10 CFR 72.3. Once SSCs are adentified as having a function meeting the definition of important to safety, impose the requirements for SSCs important to safety specified in 10 CFR 72.3. Once SSCs are provided in NIREGICR 6.407. Classification of Praisportation Praisagns and Dry Spenified Science Systems, as follows: Category A. Critical to Safe Operation SSCs in this category include those whose failure or malfunction could directly result in a condition inverse to public health and safety in portant tession. Category R. Viajor Impact an Nafety SSCs in this category include those whose failure or malfunction could result in a condition after the additional requirements therein. Category R. Viajor Impact an Nafety SSCs in this category include those whose failure or malfunction could result in a condition after the additional requirements therein. Category R. Viajor Impact an Nafety SSCs in this category are classified as safety class as defined in DOE. Category R. SSCs in this category are classified as safety significant to public health and safety. SSCs in this category are classified as safety significant to public health and safety. SSCs in this category are classified as safety significant as defined in DOE.	DOE 6430.1A WHC CM-1-46 -Section-9.0, -Rev.1

Table 1

MULTI-CANISTER OVERPACK ADDITIONAL NRC REQUIREMENTS

Responsible Discipline	Additional NRC Requirements	Related DOE/PHNC WHC-References
11. Safety Documentation (Continued)	Caregory C. Minor Impact on Safety SSCs whose radare or malfunction would not significantly reduce the MCO containment and would not be likely to create a situation adversely affecting public of dollowated workers' health and safety. SSCs in this category are classified as safety class 3 (nonsafety) as defined in DOE Order 6430 1A.	
	Worker safety issues are addressed through DOE Orders 6430.1A and \$480.23 and DOE STD-3009-94.	
	(Reference: 10 CFR 72.3, "Definitions," 10 CFR 72.106, "Controlled area of an ISFSI or MRS," and 10 CFR 72.122, "Overall requirements," and 10 CFR 72.140(m), "Quality assumption equirements." NUREG/CR-6407, Classification of Transportation Packaging and Dr. Spont Fuel Storage Systems)	
12. Radiological Protection	Incorporate the requirements of Regulatory Guide 8.8 into the design of the MCO. Example considerations include: the process and configuration associated with welding the MCO was an shield plag in place, inservice inspection and maintenance, among other MCO-related activities that could impact ALARA.	10 CFR 835 DOE 5480.11 DOE 6430.1A Hanford Site Radiological
	(Reference: Regulatory Guide 8.8, Information Relative to Ensuring that Occupational Radiation Exposures at Nuclear Power Stations will be As Low As Reasonably Achievable, Revision 3)	Control Manual (HSRCM-1)

 $\label{table 1} \textbf{MULTI-CANISTER OVERPACK ADDITIONAL NRC REQUIREMENTS}$

Responsible Discipline	Additional NRC Requirements	Related DOE/PHMC WHC-References
13. Radiological Protection	Include the following radiological exposure criteria considerations for the design and safety analyses of the MCO and its interfaces with the CSB and CVD facility-and HCS, since the MCO provides a containment/confinement function for the K Basins spent muclear fuel. • Ensure the Section 20.1301 hourly dose limit of 0.002 rem to the public for any unrestricted area from external sources during normal operations and anticipated occurrences is met. • Ensure during normal operations and anticipated occurrences for any real individual of the public that the following Section 72.104 annual dose equivalent criteria are met: 25 mrem to the whole body, 75 mrem to the thyroid, and 25 mrem to any other critical organ. (References: 10 CFR 20, "Standards for Protection Against Radiation," and 10 CFR 72.104, "Criteria for radioactive materials in effluents and direct radiation from an ISFSI or MRS," and 10 CFR 72.126, "Criteria for radiological protection")	10 CFR 835 DOE 5400.5 DOE 5480.11 DOE 5480.23 DOE 6430.1A DOE-STD-3009-94 HSRCM-1 WHC-CM-4-46, Section 9.0, Rev. 1

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