



Entergy Operations, Inc.  
River Bend Station  
5485 U.S. Highway 61N  
St. Francisville, LA 70775  
Tel. 225-381-4177

Jeffrey W. Reynolds  
Director, Regulatory & Performance  
Improvement

**RBFI-18-0339**

**10CFR72.212(b)(2)**

RBG-47923

December 19, 2018

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Subject: Notification of Spent Fuel Cask Use

River Bend Station, Unit 1  
Docket No. 50-458  
License No. NPF-47

Pursuant to 10CFR72.212(b)(2), Entergy Operations, Inc. hereby provides notification of the use of two (2) spent fuel **storage casks** at River Bend Station (RBS). The **casks** were placed in service on (11/19/2018) and (12/03/2018), respectively.

Licensee Name: Entergy Operations, Inc.  
Licensee Address: River Bend Station  
5485 U. S. Highway 61  
St. Francisville, LA 70775  
Reactor License No.: NPF-47  
Reactor Docket No.: 50-458  
ISFSI Docket No.: 72-49  
Cask Certificate No.: 1014 (Amendment No.5)  
Cask Model No.: Hi-Storm 100S Version B

Refer to Attachments 1 through 3.

This document contains no regulatory commitments. If you require additional information, please contact Mr. Jeffrey Reynolds at (225)-381-3612.

Respectfully,

  
Jeffrey W. Reynolds

JWR/djp

Attachment 1: Cask Identification: Cask Serial No. 631 (RBS Identification No. DFS-HS30) (11/19/2018).

Attachment 2: Cask Identification: Cask Serial No. 632 (RBS Identification No. DFS-HS31) (12/03/2018).

cc: Director - Spent Fuel Project Office  
Office of Nuclear Material Safety and Safeguards  
U. S. Nuclear Regulatory Commission

NRC Regional Administrator - Region IV

NRC Senior Resident Inspector - River Bend Station

Department of Environmental Quality  
Office of Environmental Compliance  
Radiological Emergency Planning and Response Section

Public Utility Commission of Texas

**ATTACHMENT 1**

**RBG-47923**

**Cask Identification: Cask Serial No. 631  
(RBS Identification No. DFS-HS30) (11/19/2018).**

**Official Copy****Fleet Standard Coversheet**Site and Unit: River Bend Station Unit 1(1) Transfer Form Number: RBS-2018-008 Revision Number: 0(2) Issued (Date): 23 Oct 2018(3) Reason For Transfer: Move loaded MPC (serial number 631) from the cask pool to the cask wash pit. MPC will be loaded into HI-STORM cask (DFS-HS30). Cask to be moved to the cask storage area and finally to the ISFSI. This is the 30<sup>th</sup> cask loading.

## Notes / Comments / Special Instructions:




MPC-68, DFS-MPC30 (S/N 631) to be loaded into HI-STORM cask DFS-HS30 (S/N 1160). HI-STORM cask DFS-HS30 will be stored in the Independent Spent Fuel Storage Installation (ISFSI). Location determined and recorded by fuel service. Reference attached map to designate ISFSI location.(4) Prepared By: Matthew Collins Matthew Collins 10-17-18(4a) Reviewed By: Kevin E. Lutz Kevin 10/23/2018(4b) Additional Approvals By: N/A(10) SNMC Approval: JEROME EWING Jerome Ewing Lines 1 Thru 3 Date 23 Oct 18

(14) SNM Records Updated By: \_\_\_\_\_ Lines \_\_\_\_\_ Thru \_\_\_\_\_ Date: \_\_\_\_\_

(15) Independently Verified By: \_\_\_\_\_ Lines \_\_\_\_\_ Thru \_\_\_\_\_ Date: \_\_\_\_\_

(16) SNMC Closure Approval: \_\_\_\_\_

## Fleet Standard ICA Transfer Form

Step	Material Description	Serial Number / Equipment ID	FROM	TO	Performed By	Date/Time	Verified By	Notes
<del>1</del>	MPC	SN: 631 ID: DFS-MPC30	Cask Pool	Cask Wash Pit	BD	11/6/18 0552		
<del>2</del>	MPC	SN: 631 ID: DFS-MPC30	Cask Wash Pit	Cask Loading Area		11/18/18 1431	mjc	
<del>3</del>	HI-STORM	SN: 1160 ID: DFS-HS30	Cask Loading Area	ISFSI <u>B2</u>		11/19/18 1752	mjc	

**ATTACHMENT 2**

**RBG-47923**

**Cask Identification: Cask Serial No. 632  
(RBS Identification No. DFS-HS31) (12/03/2018).**

**Official Copy****Fleet Standard Coversheet**Site and Unit: River Bend Station Unit 1

- (1) Transfer Form Number: RBS-2018-009 Revision Number: 0
- (2) Issued (Date): 11-8-18
- (3) Reason For Transfer: Move loaded MPC (serial number 632) from the cask pool to the cask wash pit. MPC will be loaded into HI-STORM cask (DFS-HS31). Cask to be moved to the cask storage area and finally to the ISFSI. This is the 31<sup>st</sup> cask loading.

## Notes / Comments / Special Instructions:

MPC-68, DFS-MPC31 (S/N 632) to be loaded into HI-STORM cask DFS-HS31 (S/N 1161). HI-STORM cask DFS-HS31 will be stored in the Independent Spent Fuel Storage Installation (ISFSI). Location determined and recorded by fuel service. Reference attached map to designate ISFSI location.

- (4) Prepared By: Matthew Collins Matthew Collins 10-17-18
- (4a) Reviewed By: Rebecca Gazda Rebecca Gazda 10-24-18
- (4b) Additional Approvals By: N/A
- (10) SNMC Approval: JENNIFER ELLIS Jennifer Ellis Lines 1 Thru 3 Date 8 Nov 2018

(14) SNM Records Updated By: \_\_\_\_\_ Lines \_\_\_\_\_ Thru \_\_\_\_\_ Date: \_\_\_\_\_

(15) Independently Verified By: \_\_\_\_\_ Lines \_\_\_\_\_ Thru \_\_\_\_\_ Date: \_\_\_\_\_

(16) SNMC Closure Approval: \_\_\_\_\_

## Fleet Standard ICA Transfer Form


Step	Material Description	Serial Number / Equipment ID	FROM	TO	Performed By	Date/Time	Verified By	Notes
<del>1</del>	MPC	SN: 632 ID: DFS-MPC31	Cask Pool	Cask Wash Pit	<i>RW</i>	11/28/18 1235	<i>mje</i>	
<del>2</del>	MPC	SN: 632 ID: DFS-MPC31	Cask Wash Pit	Cask Loading Area	<i>RW</i>	12/2/18 1447	<i>PZ</i>	
<del>3</del>	HI-STORM	SN: 1161 ID: DFS-HS31	Cask Loading Area	ISFSI <u>L1</u>	<i>RW</i>	12/3/18 1350	<i>PZ</i>	



## LIST OF REGULATORY COMMITMENTS

The following table identifies those actions committed to by Entergy in this document. Any other statements in this submittal are provided for information purposes and are not considered to be regulatory commitments.

COMMITMENT	TYPE (check one)		SCHEDULED COMPLETION DATE
	ONE-TIME ACTION	CONTINUING COMPLIANCE	

	<b>NUCLEAR MANAGEMENT MANUAL</b>	QUALITY RELATED	EN-LI-106	REV. 19
		INFORMATIONAL USE	PAGE 1 OF 2	
NRC Correspondence				

ATTACHMENT 9.4

NRC SUBMITTAL REVIEW

*(Typical)*

**Letter #:** RBF1-18-0239

**Response Due:** December 19, 2018

**Subject:** Notification of Spent Fuel Cask Use

**Date Issued for Review:** December 19, 2018

**Correspondence Preparer / Phone #:** Dennis Pereira / 4621

**Section I**

**Letter Concurrence and Agreement to Perform Actions**

POSITION / NAME	Action (concurrence, certification, etc.)	Signature (sign, interoffice memo, e-mail, or telecom)
Robert Morgan	Comment / Concur	See Attached Email
Jeff Reynolds	Comment / Concur	
COMMENTS		


**Section II**

**Correspondence Screening**

Does this letter contain commitments? If "yes," identify the commitments with due dates in the submittal and in Section III and initiate a PCRS LR-LAR to track implementation and/or completion of the commitment. When fleet letters contain commitments, a PCRS LR-LAR should be initiated with a CA assigned to each applicable site to enter the commitments into the site's commitment management system.	Yes No	<input type="checkbox"/> <input checked="" type="checkbox"/>
Does this letter contain any information or analyses of new safety issues performed at NRC request or to satisfy a regulatory requirement? If "yes," reflect requirement to update the UFSAR in Section III.	Yes No	<input type="checkbox"/> <input checked="" type="checkbox"/>
Does this letter require any document changes (e.g., procedures, DBDs, UFSAR, TS Bases, etc.), if approved? If "yes," indicate in Section III an action for the responsible department to determine the affected documents. (The Correspondence Preparer may indicate the specific documents requiring revision, if known or may initiate an action for review.)	Yes No	<input type="checkbox"/> <input checked="" type="checkbox"/>
Does this letter contain information certified accurate? If "yes," identify the information and document certification in an attachment. (Attachment 9.5 must be used.)	Yes No	<input checked="" type="checkbox"/> <input type="checkbox"/>

**Section III**

**Actions and Commitments**

	<b>NUCLEAR MANAGEMENT MANUAL</b>	QUALITY RELATED	EN-LI-106	REV. 19
		INFORMATIONAL USE	PAGE 2 OF 2	
NRC Correspondence				

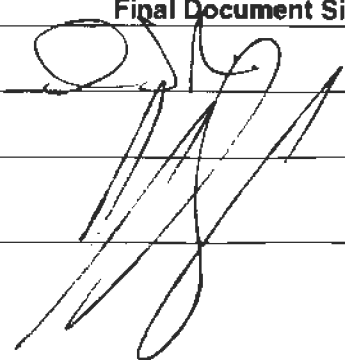
ATTACHMENT 9.4


NRC SUBMITTAL REVIEW

<b>Required Actions</b> <i>Note: Actions needed upon approval should be captured in the appropriate action tracking system</i>	<b>Due Date</b>	<b>Responsible Dept.</b>
	N/A	N/A
<b>Commitments</b> <i>Note 1: If the letter contains commitments, a PCRS LR-LAR should be initiated to track implementation and/or completion.</i> <i>Note 2: When fleet letters contain commitments, a PCRS LR-LAR should be initiated with a CA assigned to each applicable site to enter the commitments into the site's commitment management system.</i>	<b>Due Date</b>	<b>Responsible Dept.</b>
	N/A	N/A

**Section IV**

**Final Document Signoff for Submittal**

<b>Correspondence Preparer</b>	Dennis Pereira	
<b>Final Submittal Review (optional)</b>	N/A	
<b>Responsible Department Head</b>	Jeff Reynolds	

	<b>NUCLEAR MANAGEMENT MANUAL</b>	QUALITY RELATED	EN-LI-106	REV. 19
		INFORMATIONAL USE	PAGE 1 OF 1	
NRC Correspondence				

**ATTACHMENT 9.5**
**CERTIFICATION REFERENCE FORM**

{Typical}

**Letter Number:** RBF1-18-0239

**Subject:** Notification of Spent Fuel Cask Use

**Certifiable Statement(s):** Use one of the following methods to identify certifiable statements in the table below:

- 1 Identify location in submittal (e.g., page 3, para 2, sentence 1) OR,
- 2 Paste in the exact words of the statement(s) OR,
- 3 State "see attachment" and attach a copy of the correspondence with the certifiable statements indicated (e.g., by redlining, highlighting, or underlining, etc.).

Each statement or section of information being certified should be uniquely numbered to correspond with the supporting documentation listed below.

**Objective Evidence or Basis of Peer Review:** List the supporting documents in the table below and attach a copy of the documents OR give basis of peer review. Large documents need not be attached.

Certifiable Statement(s)	Objective Evidence or Basis of Peer Review
1. Cask Certification No.	1. See attached copy of cask C.o.C.
2. Cask Model No.	2. See attached email
3. Cask identification and service date	3. See attached ICA Transfer Forms
4.	4.
5.	5.

**Individual certifying the statement(s):** Certification may be documented using e-mail, telecom, "sign off" sheet, or inter-office memorandum. The form of documentation should specifically identify the information being certified.

Dennis Pereira

Name

Licensing

Department

12/19/2018

Date

**Peer Review:** Prior to signing for certification, determine if a Peer Review is required per section 5.4[2](c). Indicate "N/A" if not required.

N/A  
Name

N/A  
Department

N/A  
Date

**CERTIFICATE OF COMPLIANCE  
FOR SPENT FUEL STORAGE CASKS**

Page 1 of 5

The U.S. Nuclear Regulatory Commission is issuing this Certificate of Compliance pursuant to Title 10 of the Code of Federal Regulations, Part 72, "Licensing Requirements for Independent Storage of Spent Nuclear Fuel and High-Level Radioactive Waste" (10 CFR Part 72). This certificate is issued in accordance with 10 CFR 72.238, certifying that the storage design and contents described below meet the applicable safety standards set forth in 10 CFR Part 72, Subpart L, and on the basis of the Final Safety Analysis Report (FSAR) of the cask design. This certificate is conditional upon fulfilling the requirements of 10 CFR Part 72, as applicable, and the conditions specified below.

Certificate No.	Effective Date	Expiration Date	Docket No.	Amendment No.	Amendment Effective Date	Package Identification No.
1014	05/31/00	06/01/20	72-1014	5	July 14, 2008	USA/72-1014

Issued To: (Name/Address)

Holtec International  
Holtec Center  
555 Lincoln Drive West  
Marlton, NJ 08053

Safety Analysis Report Title

Holtec International  
Final Safety Analysis Report for the  
HI-STORM 100 Cask System

**CONDITIONS**

This certificate is conditioned upon fulfilling the requirements of 10 CFR Part 72, as applicable, the attached Appendix A (Technical Specifications) and Appendix B (Approved Contents and Design Features), and the conditions specified below:

**1. CASK**

**a. Model No.: HI-STORM 100 Cask System**

The HI-STORM 100 Cask System (the cask) consists of the following components: (1) interchangeable multipurpose canisters (MPCs), which contain the fuel; (2) a storage overpack (HI-STORM), which contains the MPC during storage; and (3) a transfer cask (HI-TRAC), which contains the MPC during loading, unloading and transfer operations. The cask stores up to 32 pressurized water reactor (PWR) fuel assemblies or 68 boiling water reactor (BWR) fuel assemblies.

**b. Description**

The HI-STORM 100 Cask System is certified as described in the Final Safety Analysis Report (FSAR) and in the U.S. Nuclear Regulatory Commission's (NRC) Safety Evaluation Report (SER) accompanying the Certificate of Compliance. The cask comprises three discrete components: the MPC, the HI-TRAC transfer cask, and the HISTORM storage overpack.

The MPC is the confinement system for the stored fuel. It is a welded, cylindrical canister with a honeycombed fuel basket, a baseplate, a lid, a closure ring, and the canister shell. All MPC components that may come into contact with spent fuel pool water or the ambient environment are made entirely of stainless steel except for the neutron absorbers, aluminum seals on vent and drain port caps, and aluminum heat conduction elements (AHCEs), which are installed in some early-vintage MPCs. The canister shell, baseplate, lid, vent and drain port cover plates, and closure ring are the main confinement boundary components. All confinement boundary components are made entirely of stainless steel. The honeycombed basket, which is equipped with neutron absorbers, provides criticality control.

**Pereira, Dennis**

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**From:** Morgan, Robert  
**Sent:** Wednesday, December 19, 2018 4:21 PM  
**To:** Pereira, Dennis  
**Subject:** Re: Notification of Spent Fuel Cask Use 121918.pdf

I have reviewed and concur that the letter looks accurate. Furthermore Cask#30 and #31 were HISTORM 100S Version B.

Thanks,

Robert Morgan  
Supv, Refueling Services  
Riverbend Station

----- Original message -----

**From:** "Pereira, Dennis" <[dpereir@entergy.com](mailto:dpereir@entergy.com)>  
**Date:** 12/19/18 4:04 PM (GMT-06:00)  
**To:** "Morgan, Robert" <[rmorga4@entergy.com](mailto:rmorga4@entergy.com)>  
**Subject:** Notification of Spent Fuel Cask Use 121918.pdf

Robert,

See attached and review.

I need your concurrence that the letter is accurate.

I also need you to verify cask were Hi-Storm 100S Version B.

Your reply email will be an attachment that goes along with all the other information.

Thanks,

**Dennis Pereira**  
Licensing Specialist  
River Bend Station  
Office: 225-381-4621  
Email: [dpereir@entergy.com](mailto:dpereir@entergy.com)

