From: "NELSON, Alan" <apn@nei.org> Nuclear Energy Institute
To: "'Diane Jackson'" <dtj@nrc.gov> , NRR
Date: Fri, Jul 30, 1999 11:07 AM
Subject: Crane Status/loading Summary

Diane:
In an effort to support the heavy load risk-informed review project, I have attached a draft "Summary of Operating Plant Loading, " to date. Based on discussions with SFPO there have been no heavy load reportable events.

Also attached for your use, draft "Dry Cask Storage Plants - Crane Status."

Once the industry has had an opportunity to review and validate I will forward final copies.

If you have any questions please call. We look forward to seeing the action plan and matrix schedule for this project next week.
Thanks
Alan

<<Cask Load Summary 72899-2.doc>> <<Utility CraneStat DS Commitments 73099.doc>>

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Summary of Operating Plant Cask Loading

1/86 - 7/28/99	**145 casks have been loaded at 11 sites**
1/86 - 7/28/99	**No reportable events have occurred relative to heavy loads per 10CFR 72.75 "Reporting requirements for specific events and conditions."**
17/28/99	**A. Nelson telecom with C. Poslusny, SFPO,NMSS, NRC**

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U.S. UTILITIES WITH ON-SITE DRY STORAGE				
UTILITY	REACTOR	DRY STORAGE TECHNOLOGY	LICENSING METHOD	CASKS LOADED[1]
VAPower	Surry 1 & 2	Metal Casks (3)	Site Specific	35
VA Power	North Anna		General License	2
Entergy	ANO	VSC-24	General License	4
Carolina Power & Light Company	H.B. Robinson	NUHOMS-07P	Site Specific	8
Duke Energy	Oconee 1, 2, & 3	NUHOMS-24P	Site Specific	40
Duke Energy	Oconee 1, 2, & 3	NUHOMS-24P	General License	4
Public Service Company of Colorado	Fort St. Vrain	Foster Wheeler MVDS	Site Specific	244[2] (vault storage)
Baltimore Gas & Electric Company	Calvert Cliffs 1 & 2	NUHOMS-24P	Site Specific	24
Consumers Energy	Palisades	VSC-24	General License	13
Northern States Power Company	Prairie Island 1 & 2	TN-40	Site Specific	9

[1] July 1999
[2] Not included in cask totals.

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GPU Nuclear	TMI-2		General License	1

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UTILITY	REACTOR	DRY STORAGE TECHNOLOGY	LICENSING METHOD	CASKS LOADED[3]
Wisconsin Electric	Point Beach	VSC-24	General License	2
Toledo Edison	Davis Besse	NUHOMS-24P	General License	3
				TOTAL LOADED CASKS 145

[3] July 1999

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Dry Cask Storage Plants - Crane Status

Utility	Plant	Cask Drop Analyses Complete	Single Failure Proof FHB Crane
Virginia Power	North Anna 1 and 2	Plant had to perform cask drop analyses. Plant also had to perform tip/slide cask analyses; though the casks are designed for tipping over, the NRC wanted to have 10 percent seismic margin.	N
Virginia Power	Surry 1 and 2	Plant performed cask drop analyses. Note - plant did not have to perform tipping/sliding analyses that NRC required for North Anna. However, plant expects that NRC will eventually request these studies as a part of improved TS actions.	N
Carolina Power & Light Co.	H.B. Robinson 2	Not required since plant has single-failure-proof crane	Plant has single-failure-proof crane. (Note: Robinson has submitted LAR to NRC to update FSAR to include previously unanalyzed cask drop of a load spent fuel shipping cask as the cask is moved from decon facility to railcar with valve box cover removed)
Duke Power Co.	Oconee 1, 2 and 3	Cask drop analyses performed. Cask drop into pool was considered, but cask path does not traverse over any Class 1 commodities. Analyses demonstrated impact limiters not required.	N
Baltimore Gas & Electric Co.	Calvert Cliffs	Not need per crane below; also, NUHOMS horizontal design doesn't require tip/slide analyses.	Plant has single-failure-proof crane
Consumers Energy Co.	Palisades	Plant performed cask drop analyses, installed impact limiters in pool and the cask washdown area (Sierra Nuclear designed limiters	N
Northern States Power Co.	Prairie Island 1 and 2	did not have to perform cask drop analyses - upgraded crane to single-failure-proof	Upgraded crane under 50.59 process. However, had to submit LAR since TS discussed cask drop, the need to install impact limiters, and limits on fuel age. LAR was needed to remove these restrictions.

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Utility	Plant	Cask Drop Analyses Complete	Single Failure Proof FHB Crane
GPU Nuclear Corp.	Three Mile Island 2	?	?
Entergy Operations, Inc.	Arkansas Nuclear One 1 and 2	Original FSAR had drop analysis, which included 100T cask and 10-day old fuel. Therefore, no new cask drop analyses were required, since original cask weight not exceeded, and currently offloading 5-year old fuel.	Plant does not have a single-failure-proof crane.
Toledo Edison Co. (FirstEnergy Corp.)	Davis-Besse	Crane does not traverse pool, and cask path does not go over any Class 1 commodities. Plant may re-review some aspects of the cask move in the future, but has put any such activities on indefinite hold since no further offloads to ISFSI are planned at this time.	No. However, the crane capacity is 140T, while the cask weight is 100T. Plant had external company test crane to 135T.
Wisconsin Electric Power Co.	Point Beach 1 and 2	NRC requested plant to perform tip-over analysis	Plant has 125T single-failure-proof crane