

## PMSTPCOL PEmails

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**From:** Foster, Rocky  
**Sent:** Monday, July 08, 2013 7:34 AM  
**To:** STPCOL  
**Subject:** FW: Spent Fuel Pool Thermal Hydraulic Analysis

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**From:** [rhbense@ninalc.net](mailto:rhbense@ninalc.net) [<mailto:RHBense@NINAlc.Net>]  
**Sent:** Wednesday, July 03, 2013 11:41 AM  
**To:** Foster, Rocky  
**Cc:** Head, Scott; Bill Mookhoek; Steve Thomas; Fisticaro Jim  
**Subject:** Spent Fuel Pool Thermal Hydraulic Analysis

Rocky,

The following documents the key points of the telephone call between you and me this morning:

**1. STP 3 & 4 Spent Fuel Pool (SFP) Rack Capacity:**

WCAP-17331-P, Rev 2, dated November 2011, in Section 1.0 and in Table 3-1, 'Spent Fuel Rack Summary,' states that: "The total capacity of the spent fuel pool is 2,600 fuel assemblies."

As a result of the change in Spent Fuel Rack vendor, the Spent Fuel Rack design that will be submitted by July 31, 2013, will have a maximum capacity of 2,380 fuel assemblies.

**2. FSAR Discussion of SFP Capacity and the Thermal Hydraulic Analysis:**

The Spent Fuel Rack design that will be submitted by July 31, 2013, will include COLA changes to FSAR Section 9.1.3.3, to clarify STD DEP 9.1-1 related to fuel pool capacity consistent with the Departures Report explanation which states:

"In Subsection 9.1.3.3, the maximum 270% has been clarified to be the capacity used for the bounding heat load evaluation. For a pool having a capacity larger than 270%, the additional capacity may not be utilized without revision to the bounding heat load evaluation."

Note that full core capacity is 872 assemblies and that 270% of full core capacity is 2354 fuel assemblies.

**3. STP 3 & 4 Spent Fuel Rack Thermal Hydraulic Analysis Submittal:**

The Spent Fuel Rack design that will be submitted by July 31, 2013, WILL include a Thermal Hydraulic Analysis that satisfies the requirements in FSAR 9.1.6.8, Spent Fuel Racks Thermal-Hydraulic Analysis.

Thank you,

**Dick Bense**

NINA Licensing Engineer

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**Hearing Identifier:** SouthTexas34Public\_EX  
**Email Number:** 3630

**Mail Envelope Properties** (26E42474DB238C408C94990815A02F09DED3C5FA07)

**Subject:** FW: Spent Fuel Pool Thermal Hydraulic Analysis  
**Sent Date:** 7/8/2013 7:34:18 AM  
**Received Date:** 7/8/2013 7:34:19 AM  
**From:** Foster, Rocky

**Created By:** Rocky.Foster@nrc.gov

**Recipients:**  
"STPCOL" <STP.COL@nrc.gov>  
Tracking Status: None

**Post Office:** HQCLSTR01.nrc.gov

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MESSAGE	2096	7/8/2013 7:34:19 AM

**Options**  
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**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
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