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GNRO-2015/00094

March 2, 2016

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

SUBJECT: Maximum Extended Load Limit Analysis Plus (MELLLA+) Time Critical
Operator Action Training Results
Grand Gulf Nuclear Station, Unit 1
Docket No. 50-416
License No. NPF-29

REFERENCES: 1. Entergy Letter GNRO-2015/00003, "Response to Item 25 Request for
Additional Information Regarding Maximum Extended Load Line Limit
Plus Amendment Request," dated February 9, 2015
2. U.S. NRC Letter, "Amendment No. 205 to Facility Operating License No.
NPF-29" dated August 31, 2015, ML15229A219 (GNRI-2015/00114)

Dear Sir or Madam:

Entergy Operations, Inc. is providing, in the Attachment, Grand Gulf Nuclear Station Operation's personnel training results on the three MELLLA+ time-critical operator actions as committed in Reference 1.

On August 31, 2015, the NRC issued the referenced amendment. Facility Operating License Condition #49 requires the results of the three MELLLA+ time critical operator actions (TCOA) training to be reported to the NRC Project Manager within 60 days of completion of the training.

The Operating License Condition reads as follows:

Prior to Operation in the MELLLA+ Domain, Entergy will:

Train all active operating crews to perform the following three MELLLA+ time-critical operator actions:

1. Initiate Reactor Water Level Reduction (90 seconds following failure to scram concurrent with no reactor recirculation pumps in service and CTP > 5%).
2. Initiate Standby Liquid Control Injection (300 seconds if CTP > 5% or before Suppression Pool Temperature reaches 110 degrees F).
3. Initiate Residual Heat Removal Suppression Pool Cooling (660 seconds).

GGNS will validate that all active operating crews have met the time requirements for the three MELLLA+ time-critical operator actions during evaluated scenarios.

GGNS will report any MELLLA+ time-critical actions that are converted to "immediate actions" to the NRC Project Manager.

The following are one-time actions which expire after the first report:

The results of the three MELLLA+ time-critical operator actions training will be reported to the NRC Project Manager within 60 days of completion of the training.

The reported results will include the full range of response times for each time-critical action and the average times for each crew.

Any MELLLA+ time-critical operator training failures during evaluated scenarios will be reported to the NRC within 60 days of any failures with a plan for resolution.

On February 11, 2016, Grand Gulf Nuclear Station Operation's personnel completed the required TCOA training. Results of the three MELLLA+ time-critical operator actions training are attached.

Grand Gulf Nuclear Station has made the second TCOA (initiate standby liquid control injection) an immediate operator action.

This letter contains no new commitments. If you have any questions or require additional information, please contact James Nadeau at 601-437-2103.

I declare under penalty of perjury that the foregoing is true and correct. Executed on the 2nd day of March, 2016.

Sincerely,



KJM/ras

Attachment: MELLLA+ Time Critical Operator Action Training Results

cc:

U.S. Nuclear Regulatory Commission
ATTN: Mr. Jim Kim, NRR/DORL (w/2)
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U.S. Nuclear Regulatory Commission
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Mr. B. J. Smith
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Mississippi State Department of Health
Division of Radiological Health
3150 Lawson Street
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NRC Senior Resident Inspector
Grand Gulf Nuclear Station
Port Gibson, MS 39150

Attachment to

GNRO-2015/00094

MELLLA+ Time Critical Operator Action Training Results

GGNS MELLA Plus TCOA's DATA

Name / Team	Position	Reduce RWL within 90 Seconds	Inject SLC within 300 Seconds	Initiate RHR-SPC within 660 Seconds
'A' Team (As Left)*	Team	74.00	65.00	611.0
Keith Huff		75.00	57.00	611.0
Scott Flickenger		68.00	92.00	499.0
Jason Allen		57.00	72.00	611.0
Darryl Clardy		75.00	60.00	499.0
Avg for 'A' Team		68.7	70.2	555
Off Shift 2 (As Left)*	Team	65.00	73.00	451.5
Leroy Purdy		53.00	55.00	502.50
Chris Miller		76.00	58.00	497.0
Jason Overcash		55.00	75.00	451.5
Milton Whigham		74.00	70.00	522.25
Todd Chamblee		66.00	59.00	451.5
Bernie Zimmerman		59.00	91.00	497.0
Avg for 'Off Shift 2'		63.8	68.0	486.9
'B' Team (As Left)*	Team	71.50	54.00	450.00
Dave Burrus		71.25	66.25	514.50
Joe Graham		61.50	41.75	405.50
Reed Eldrige		52.25	52.50	442.25
Donnie Davis		54.75	41.75	405.50
Billy Newman		61.50	58.75	446.00
Avg for 'B' Team		60.2	52.2	442.7
Off Shift 2 (As Left)*	Team	72.00	65.00	514.00
Ricky Liddell		54.75	58.75	446.00
Frank Brown		69.25	42.75	506.00
Jonathon Smith		62.50	69.00	479.75
April Hargrave		71.25	69.00	479.75
John Oakes		62.50	66.25	514.50
Avg for 'Off Shift 2'		64.0	61.1	485.2
'C' Team (As Left)*	Team	70.50	79.75	518.25
Sean Dunfee		50.25	48.25	427.50
Wes Marshall		63.75	64.00	546.25
Jay Comfort		68.75	67.25	506.25
PK Huff		63.75	67.25	506.25
James Mergner		68.75	48.25	427.50
Johnnie Clack		50.25	64.00	546.25
Avg for 'C' Team		60.9	59.8	493.3
'D' Team (As Left)*	Team	79.50	59.25	557.25
Brandon Starnes		64.50	56.75	516.00
John Copus		69.75	52.50	566.50
Tony Scinicariello		71.50	67.00	530.00
Mike Starnes		71.50	52.50	566.50
Ben White		69.75	67.00	530.00
Ronnie Walters		66.50	56.75	516.00
Avg for 'D' Team		68.9	58.7	537.5

Name / Team	Position	Reduce RWL within 90 Seconds	Inject SLC within 300 Seconds	Initiate RHR/SPC within 660 Seconds
'E' Team (As Left)*	Team	57.75	64.75	568.25
Ben Nadolny		53.75	69.25	489.75
Chris Baxter		62.25	93.75	501.00
Stuart Dixon		57.75	69.25	489.75
Gabe Hargrove		62.25	64.75	568.25
Ken Haley		53.75	48.75	458.75
Avg for 'E' Team		57.9	69.1	501.5
Other				
Robert Brinkman		61.00	66.00	488.50
Ryan Meyer		66.50	69.50	499.75
Mark Goodwin		68.50	64.75	568.25
Pat Bludau		68.50	64.25	460.50
Jody Cheroni		62.50	93.75	501.00
Avg for 'Other'		65.4	71.6	503.6
2015 ILOT				
Stuart		61.0	84.0	417.25
Ellis		57.75	87.75	414.0
Goodson		70.5	82.5	458.5
Reid		61.0	69.50	421.25
Martin		55.75	84.0	417.25
Miller		60.5	87.25	391.25
Watts		62.25	87.75	414.00
Austin		57.75	86.50	451.0
Avg for 'ILOT'		60.8	83.6	423.1

- *Crew scenario run with the normal crew lineup. Teams evaluated with an "as left" simulator evaluation.
- The individual times were evaluated using a 3 man crew with 1 SRO and 2 RO's. Completion times were measured for each TCOA for each person. Then RO positions were swapped and run again with a different CRS to allow efficient evaluation of all crew members. SRO's evaluated as the CRS (Control Room Supervisor), directing actions as appropriate and setting correct priorities.
- RO's evaluated twice, both as the ATC (At the Controls Operator) and CRO (Control Room Operator).
- All Evaluations conducted with worst case scenario of operation:
 - 100% Reactor Power, Operating in the MELLLA Plus Domain
 - All MSIV's Closed
 - 100% ATWS
 - No Other Malfunctions