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Early C. Ewing, III Director Nuclear Safety & Regulato: y Affairs Waterford 3

W3F1-99-0060 A4.05 PR

March 23, 1999

U.S. Nuclear Regulatory Commission Attn: Document Control Jesk Washington, D.C. 20555

Subject: Waterford 3 SES Docket No. 50-382 License No. NPF-38 Additional Information Regarding Mechanical Nozzle Seal Assemblies at Waterford 3

Gentlemen:

By Letter W3F1-99-0043 dated March 10, 1999, Entergy submitted a request for Use of Mechanical Nozzle Seal Assemblies at Waterford 3. In that request Entergy committed that the results of the analysis would be provided to the NRC Staff for their review upon completion. This commitment was reiterated in Letter W3F1-99-0048, dated March 12, 1999. This was expected to occur by March 31, 1999. The analysis has been received, reviewed and approved by the Entergy Engineering staff. Attachment A provides the analysis for NRC Staff review.

Should you have any questions concerning this information, please contact me at (504) 739-6242 or Curt Taylor at (504) 739-6725.

Very truly yours,

E. C. Ewing Director, Nuclear Safety and Regulatory Affairs

ECE/CWT/ssf Attachment

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CC:

(w/o Attachment)
E.W. Merschoff, NRC Region IV
J. Smith
N.S. Reynolds
INRC Resident Inspectors Office
Administrator Radiation Protection Division (State of Louisiana)
American Nuclear Insurers

(w/Attachment) C.P. Patel, NRC-NRR

CC:

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ccMail:

(w/o Attachment) J.R. McGaha C.M. Dugger T.R. Leonard R.F. Burski A.J. Wrape G.D. Pierce J.G. Hoffpauir E.P. Perkins C.E. DeDeaux M. K. Brandon R.E. Allen J.M. O'Hern S.J. Bethay W.K. Hughey J.D. Vandergrift R.J. King A.E. Wemett

(M-ECH-65) (W-GSB-300) (W-MSB4-300) (W-GSB-305) (W-GSB-315) (W-GSB-375) (W-MSB4-336) (W-GSB-318) (W-GSB-318) (W-GSB-318) (W-GSB-102) (W-EEC-650) (M-ECH-66) (GGNS-ADM/LIC) (ANO-GSB/1C) (R-SB-15) (W-GSB-318)

bcc:

(w/Attachment) Waterford 3 Records Center (W-GSB-100) Licensing Green Folder File W3F1-99-0060

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## ATTACHMENT A

Analysis

## WATERFORD 3 MNSA - DOCUMENT LIST

ER-W3-99-0198-00-01 03/23/99 @ 18:05

- Design Report No. C-PENG-DR-006 Rev. 1, Addendum to CENC-1444 (EC-M94-012) includes as attachments:
  - A. ASME Code Year Reconciliation
  - B. ABB CENP Calculation C-PENG-CALC-018 Rev. 00, "Analysis of Waterford Unit 3 Hot Leg Sampling MNSA."
  - C. ABB CENP Calculation C-PENG-CALC-019 Rev. 00, "Analysis of Waterford Unit 3 Hot Leg PDT MNSA."
  - D. ABB CENP Calculation C-PENG-CALC-020 Rev. 00, "Analysis of Waterford Unit 3 Hot Leg RTD MNSA."
  - E. ABB CENP Document No. A-WATERFD-9449-1213 Rev. 00, "Evaluation of attachment Locations for MNSA of Waterford Unit 3 Partial Penetration Welded Nozzles in Hot Leg Piping."
- MNSA SQRT File SQ-MN-347 includes as attachments:
  - A ABB CENP Engineering Report No. C-NOME-ER-0120, Rev 1 "Design Evaluation of MNSA for Various Applications at Waterford 3"
  - B. ABB CENP Calculation C-NOME-CALC-0107, Rev 0, "Seismic Qualification of Hot Leg RTD, Hot Leg PDT and Hot Leg Sampling MNSA Hardware,"
  - C. ABB CENP Calculation S-PENG-CALC-008, Rev 00, "Nozzle Loads for which Bottom Mounted PZR MNSA was Qualified"
  - D. ABB CENP Calculation C-PENG-CALC-021 Rev. 00, "Determination f Waterford 3 Hot Leg Seismic Response Spectra & Accelerations for Use in the Analyses of MNSAs."
  - E ABB CENP Test Report TR-PENG-033 Rev. 00, "Seismic Qualification of the San Onofre, Units 2 and 3 MNSA Clamps for Pressurizer Instrument Nozzles and RTD Hot Leg Nozzles"
  - F. ABB CENP Calculation S2-NOME-CALC-0085 Rev 00, "Seismic Qualification of Steam Generator PDT, Hot Leg PDT and Hot Leg Sampling MNSA Hardware"
  - G. ABB CENP Test Report TR-PENG-042 Rev. 00, "MNSA Hydrostatic and Thermal Cycle Test"

## WATERFORD 3 MNSA – DOCUMENT LIST

ER-W3-99-0198-00-01 03/23/99 @ 18:05

- ABB CENP Document No. C-NOME-SP-0067, Rev 2, "Design Specification for MNSA at Waterford Unit 3" 5817-12148 Attached to ER-W3-99-0198-00-01
- 4. ABB CENP Letter No. NOME-99-C-0123 March 18, 1999 "Volume and Surface Area Calculation" Attached to ER-W3-99-0198-00-01
- ABB CENP Letter No. NOME-99-C-0124 March 18, 1999, March 22, 1999 Rev. 2 "Corrosion Issues Associated with the Installation of MNSAs on Leaking Hot Leg Nozzles at Waterford" Attached to ER-W3-99-0198-00-01
- ABB CENP Drawing E-MNSAWFD-228-001 Rev. 03, "Hot Leg RTD MNSA Flat" 5817-12142 Part of ER-W3-99-0198-00-01
- 7. ABB CENP Drawing E-MNSAWFD-228-002 Rev. 03, "Hot Leg PDT MNSA" 5817-12143 Part of ER-W3-99-0198-00-01
- ABB CENP Drawing E-MNSAWFD-228-003 Rev. 03, "Hot Leg Sampling MNSA" 5817-12141 Part of ER-W3-99-0198-00-01
- ABB CENP Document No. C-NOME-EP-0189, Rev 1, "Engineering Procedure for the Installation of the MNSA for Waterford 3" Attached to WA# 01177163 & 0177164
- 10. AEB CENP Document No. STD-100-237, Rev. 00, "Procedure for the Modification of RCS Pressure Boundary for the Installation of MNSAs for Waterford Unit 3" " Attached to WA# 01177163 & 0177164