

April 3, 2007

MEMORANDUM TO: David Terao, Chief
Plant Licensing Branch IV
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

FROM: Mel B. Fields, Senior Project Manager /RA/
Plant Licensing Branch IV
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

SUBJECT: WATERFORD STEAM ELECTRIC STATION, UNIT 3 - SUMMARY OF
MEETING HELD ON MARCH 22, 2007, RE: STEAM GENERATOR
BATWING DEGRADATION ISSUE

On March 22, 2007, Entergy Operations, Inc. (Entergy), the licensee for Waterford Steam Electric Station, Unit 3, met with the Nuclear Regulatory Commission (NRC) staff at NRC Headquarters in Rockville, Maryland. The purpose of the meeting was to discuss Entergy's investigation of the batwing degradation condition, to review analysis supporting safe plant operation, to review the mitigation actions taken, and to discuss Entergy's plans for a mid-cycle outage to inspect the steam generator batwings and their support structures. Based on its assessment of the potential impact of the degraded batwing condition on tube integrity, Entergy concluded that inspections on the secondary side of the steam generators should be sufficient to assure plant safety. Entergy will be prepared to conduct eddy current inspections of the steam generator tubes from the primary side if unexpected conditions are observed on the secondary side of the steam generator. At the meeting, the NRC staff inquired about the criteria for determining when primary side tube inspections would be performed and the capabilities of the visual techniques for inspecting the tubes in the vicinity of the batwings. The staff plans to have additional discussions with the licensee once it has developed strategies for deciding when primary side inspections will be needed.

A list of attendees is provided as an enclosure to this memorandum. There were no members of the public represented at the meeting. The slides used during the meeting by Entergy contained proprietary information that is withheld from public disclosure pursuant to Title 10 of the *Code of Federal Regulations*, Part 2, Section 2.390. A non-proprietary version of the slides is available in the Agencywide Documents Access and Management System (ADAMS) under Accession Number ML070870675.

Docket No. 50-382

Enclosure: As stated

cc w/encl: See next page

April 3, 2007

MEMORANDUM TO: David Terao, Chief
Plant Licensing Branch IV
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

FROM: Mel B. Fields, Senior Project Manager /RA/
Plant Licensing Branch IV
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

SUBJECT: WATERFORD STEAM ELECTRIC STATION, UNIT 3 - SUMMARY OF
MEETING HELD ON MARCH 22, 2007, RE: STEAM GENERATOR
BATWING DEGRADATION ISSUE

On March 22, 2007, Entergy Operations, Inc. (Entergy), the licensee for Waterford Steam Electric Station, Unit 3, met with the Nuclear Regulatory Commission (NRC) staff at NRC Headquarters in Rockville, Maryland. The purpose of the meeting was to discuss Entergy's investigation of the batwing degradation condition, to review analysis supporting safe plant operation, to review the mitigation actions taken, and to discuss Entergy's plans for a mid-cycle outage to inspect the steam generator batwings and their support structures. Based on its assessment of the potential impact of the degraded batwing condition on tube integrity, Entergy concluded that inspections on the secondary side of the steam generators should be sufficient to assure plant safety. Entergy will be prepared to conduct eddy current inspections of the steam generator tubes from the primary side if unexpected conditions are observed on the secondary side of the steam generator. At the meeting, the NRC staff inquired about the criteria for determining when primary side tube inspections would be performed and the capabilities of the visual techniques for inspecting the tubes in the vicinity of the batwings. The staff plans to have additional discussions with the licensee once it has developed strategies for deciding when primary side inspections will be needed.

A list of attendees is provided as an enclosure to this memorandum. There were no members of the public represented at the meeting. The slides used during the meeting by Entergy contained proprietary information that is withheld from public disclosure pursuant to Title 10 of the *Code of Federal Regulations*, Part 2, Section 2.390. A non-proprietary version of the slides is available in the Agencywide Documents Access and Management System (ADAMS) under Accession Number ML070870675.

Docket No. 50-382
Enclosure: As stated
cc w/encl: See next page

DISTRIBUTION

| | | | |
|------------------------|---------------------|-----------------------------|---------------------|
| PUBLIC | RidsNrrDorlLp4 | RidsRgn4MailCenter (JClark) | MYoder, NRR/DCI/CSG |
| LPLIV r/f | RidsNrrLAJBurkhardt | KKarwoski, NRR/DCI | DCullison, EDO RIV |
| RidsAcrsAcnwMailCenter | RidsNrrPMMFields | MEvans, NRR/DCI | |
| RidsNrrDorl | RidsOgcRp | EMurphy, NRR/DCI/CSG | |

ADAMS Accession Nos. Pkg ML070870732, Summary ML070870718 [Mtg Notice ML070530458, Non-Proprietary Slides ML070870675, Proprietary Slides ML070870634]

| | | | |
|--------|-------------|-------------|-------------|
| OFFICE | NRR/LPL4/PM | NRR/LPL4/LA | NRR/LPL4/BC |
| NAME | MFields | JBurkhardt | DTerao |
| DATE | 4/3/07 | 4/3/07 | 4/3/07 |

OFFICIAL RECORD COPY

MARCH 22, 2007

MEETING WITH ENTERGY OPERATIONS, INC.

WATERFORD STEAM ELECTRIC STATION, UNIT 3

STEAM GENERATOR BATWING DEGRADATION ISSUE

LIST OF ATTENDEES

Entergy Operations, Inc.

Joe Kowalewski
Gary Payne
Robert Murillo
Rex Putnam
Jerry Hulman
Robert O'Quinn
Jerry Burford

Westinghouse

Jeffrey Hall
Bill Cullen
Peter Nelson
Bill Heilker

U.S. Nuclear Regulatory Commission

Michele Evans
Ken Karwoski
Emmett Murphy
Matt Yoder
David Terao
Jeff Clark
Dwight Chamberlain
George Gerond
Mel Fields

Waterford Steam Electric Station, Unit 3
cc:

Mr. Michael E. Henry, State Liaison Officer
Department of Environmental Quality
Permits Division
P.O. Box 4313
Baton Rouge, Louisiana 70821-4313

Vice President Operations Support
Entergy Operations, Inc.
P. O. Box 31995
Jackson, MS 39286-1995

Director
Nuclear Safety Assurance
Entergy Operations, Inc.
17265 River Road
Killona, LA 70066-0751

Wise, Carter, Child & Caraway
P. O. Box 651
Jackson, MS 39205

General Manager Plant Operations
Waterford 3 SES
Entergy Operations, Inc.
17265 River Road
Killona, LA 70066-0751

Licensing Manager
Entergy Operations, Inc.
17265 River Road
Killona, LA 70066-0751

Winston & Strawn
1700 K Street, N.W.
Washington, DC 20006-3817

Resident Inspector/Waterford NPS
P. O. Box 822
Killona, LA 70066-0751

Regional Administrator, Region IV
U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011

Parish President Council
St. Charles Parish
P. O. Box 302
Hahnville, LA 70057

Executive Vice President
& Chief Operating Officer
Entergy Operations, Inc.
P. O. Box 31995
Jackson, MS 39286-1995

Chairman
Louisiana Public Services Commission
P. O. Box 91154
Baton Rouge, LA 70825-1697

Mr. Joseph E. Venable
Vice President Operations
Entergy Operations, Inc.
17265 River Road
Killona, LA 70066-0751