

TEPA

BALTIMORE GAS AND ELECTRIC COMPANY

P. O. BOX 1475
BALTIMORE, MARYLAND 21203

August 25, 1980

ARTHUR E. LUNDVALL, JR.
VICE PRESIDENT

SUPPLY
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attn: Mr. Robert A. Clark, Chief
Operating Reactors Branch #3
Division of Licensing

Subject: Calvert Cliffs Nuclear Power Plant
Units Nos. 1 & 2, Dockets Nos. 50-317 & 50-318
Westinghouse Low Pressure Turbine Disc Inspection

Reference: BG&E letter dated 3/18/80 from A. E. Lundvall, Jr.
to D. G. Eisenhut, same subject.

Gentlemen:

Please find enclosed the following four (4) data sheets:

- 35 of 36 - proprietary
- 12 of 36 - proprietary
- 35 of 36 - non-proprietary
- 12 of 36 - non proprietary

These data sheets are to be inserted in place of the corresponding pages of the attachments to the letter referenced above.

Pursuant to the Provisions of 10 CFR Part 2.790 it is requested that the information contained in attachment 3 to the referenced letter and the pages labelled as proprietary of this letter be treated as proprietary information and be withheld from public disclosure.

BALTIMORE GAS AND ELECTRIC COMPANY

BY: *A. E. Lundvall, Jr.*
A. E. Lundvall, Jr.
Vice President - Supply

STATE OF MARYLAND:

TO WIT:

CITY OF BALTIMORE:

A. E. Lundvall, Jr. being duly sworn states that he is Vice President of the Baltimore Gas and Electric Company, a corporation of the State of Maryland, that he executed the foregoing Response for the purposes

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THIS DOCUMENT CONTAINS
POOR QUALITY PAGES

therein set forth, that the statements made in said Response are true and correct to the best of his knowledge, information and belief; and that he was authorized to execute the Response on behalf of said corporation.

WITNESS My Hand and Notarial Seal:

Clark H. Brown

My Commission Expires:

July 1, 1982

Attachments (4)

cc: J. A. Biddison, Esquire
G. F. Trowbridge, Esquire
Mr. E. L. Conner, Jr. - NRC

Data for this disc will be supplied by Westinghouse at a later date.

ID # : 008010902

LP TURBINE DISC INFORMATION

A. UNIT IDENTIFICATION

1. BUILDING BLOCK [] AD
 2. UNIT CALVERT CLIFFS #2
 3. CUSTOMER: BALTIMORE GGE
 4. LOP 1
 5. LOCATION GEN
 6. DISC 6
 7. TEST NO. TV1900

B. MATERIAL PROPERTIES (HUB)

1. TYPE [] (KSI) []
 2. SUPPLIER: []
 3. Y.S. (KSI) []
 4. U.T.S. (KSI) []
 5. ELONGATION []
 6. Q.A. []
 7. FATT (DEG.F) []
 8. R.T. IMPACT (FT.-LB.) []
 9. U.S. IMPACT TEMP. (DEG.F) []
 10. U.S. IMPACT ENG. (FT.-LB.) []
 11. U.S. KIC (KSI*SQRT(IN.)) []

C. MATERIAL PROPERTIES (RIM)

1. Y.S. (KSI) []
 2. U.T.S. (KSI) []
 3. ELONGATION []
 4. R.A. []
 5. FATT (DEG.F) []
 6. R.T. IMPACT (FT.-LB.) []
 7. U.S. IMPACT TEMP. (DEG.F) []
 8. U.S. IMPACT ENG. (FT.-LB.) []
 9. U.S. KIC (KSI*SQRT(IN.)) []

D. CHEMISTRY

[C] [MN] [SI] [P]
 [NI] [AS] [SO] [SN]

[CR] [MO] [V]
 [AL] [CU] [S]

F. CRACK DATA

1. A-CR-0P (1800 RPM) (IN.) []
 2. A-CR-0S (OVERSPEED) (IN.) []

E. HUB STRESS

SPEED (RPM) STRESS
 1. 1800 (KSI) []
 2. 2160 (KSI) []

G. SERVICE DATA

1. OPER. TEMP. METAL TEMP. HUB (DEG.F) []
 2. ESTIMATED MAX CAZOT (IN/HR) []
 3. Calculated keyway crack size till inspection time. []
 4. Ratio of calculated crack to critical crack size. []

(W) All Bracketed Data Subject to Proprietary Codes, b,c,e,
 [] b,c,e,

Data for this disc will be supplied by Westinghouse at a later date.

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LP TURBINE DISC INFORMATION

1. UNIT IDENTIFICATION
1. BUILDING NO. []
 2. UNIT NO. []
 3. CONVEYOR NO. []
 4. CUSTOMER: WESTINGHOUSE []
 5. LOCATION: []
 6. DISC NO. []
 7. TEST NO. []
2. MATERIAL PROPERTIES (M.P.)
1. T.M.N. U.S. []
 2. SUPPLIER: []
 3. Y-S. (MSI) []
 4. U.S. (PST) []
 5. ELONGATION []
 6. R.A. (DEG.F) []
 7. R-T. IMPACT (FT-LB.) []
 8. U.S. IMPACT TEMP. (DEG.F) []
 9. U.S. IMPACT ENG. (FT-LB.) []
 10. U.S. IMPACT TEMP. (DEG.F) []
 11. U.S. MIC (MSI-SORTIN.) []
3. MATERIAL IDENTIFICATION
1. Y-S. (MSI) []
 2. U.S. (PST) []
 3. ELONGATION []
 4. R.A. (DEG.F) []
 5. R-T. IMPACT (FT-LB.) []
 6. U.S. IMPACT TEMP. (DEG.F) []
 7. U.S. IMPACT ENG. (FT-LB.) []
 8. U.S. IMPACT TEMP. (DEG.F) []
 9. U.S. MIC (MSI-SORTIN.) []

D. CHEMISTRY

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|----|-----|----|-----|----|-----|----|-----|----|-----|
| CA | [] | SI | [] | P | [] | CR | [] | NO | [] |
| NI | [] | SS | [] | SN | [] | AL | [] | CU | [] |
| AS | [] | AS | [] | SN | [] | AL | [] | CU | [] |
- F. CRACK DATA
1. A-CR-OP (1800 RPM) (IN.) []
 2. A-CR-OS (OVERSPEED) (IN.) []

E. POPE STRESS

1. SPEED (RPM) []
2. STRESS (MSI) []
3. STRESS (KSI) []

G. SERVICE DATA

1. OPER. TEMP. (DEG.F) []
2. ESTIMATED MAX. TA/DT (IN/HR) []
3. Calculated keyway crack size till inspection time. []
4. Ratio of calculated crack to critical crack size. []

All Bracketed Data Subject to Proprietary Codes, b,c,e