

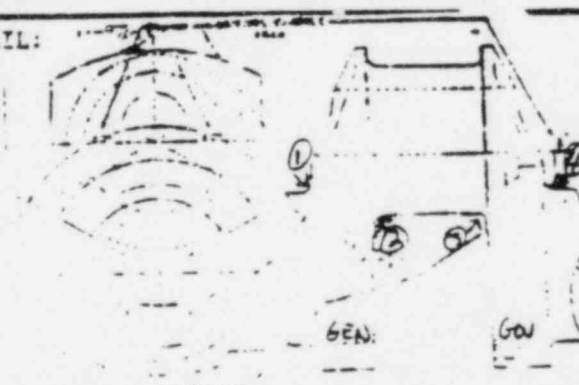
| NEW CRANKSHAFT S/N 693M PO 310552-26 | | | |
|--|-------|-----------------|---|
| Cyl # | SDATA | Location | NDE Method + Initials |
| Cyl #1 | 1 | main Gen Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input type="checkbox"/> LP <i>NA</i> |
| | 2 | C.R. Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input type="checkbox"/> LP <i>NA</i> |
| | 3 | C.R. Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input type="checkbox"/> LP <i>NA</i> |
| | 4 | main Gov Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input checked="" type="checkbox"/> LP EH |
| Cyl #2 | 1 | main Gen Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input checked="" type="checkbox"/> LP EH |
| | 2 | C.R. Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input checked="" type="checkbox"/> LP EH |
| | 3 | C.R. Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input checked="" type="checkbox"/> LP EH |
| | 4 | main Gov Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input type="checkbox"/> LP <i>NA</i> |
| Cyl #3 | 1 | main Gen Journ. | <input checked="" type="checkbox"/> Yoke <i>DP</i> <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input type="checkbox"/> LP <i>NA</i> |
| | 2 | C.R. Journ. | <input checked="" type="checkbox"/> Yoke <i>DP</i> <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input type="checkbox"/> LP <i>NA</i> |
| | 3 | C.R. Journ. | <input checked="" type="checkbox"/> Yoke <i>DP</i> <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input type="checkbox"/> LP <i>NA</i> |
| | 4 | main Gov Journ. | <input checked="" type="checkbox"/> Yoke <i>DP</i> <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input type="checkbox"/> LP <i>NA</i> |
| Cyl #4 | 1 | main Gen Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input checked="" type="checkbox"/> LP EH |
| | 2 | C.R. Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input type="checkbox"/> LP <i>NA</i> |
| | 3 | C.R. Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input type="checkbox"/> LP <i>NA</i> |
| | 4 | main Gov Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input checked="" type="checkbox"/> LP EH |
| Cyl #5 | 1 | main Gen Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input type="checkbox"/> LP <i>NA</i> |
| | 2 | C.R. Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input checked="" type="checkbox"/> LP EH |
| | 3 | C.R. Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input checked="" type="checkbox"/> LP EH |
| | 4 | main Gov Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input type="checkbox"/> LP <i>NA</i> |
| Cyl #6 | 1 | main Gen Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input type="checkbox"/> LP <i>NA</i> |
| | 2 | C.R. Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input checked="" type="checkbox"/> LP EH |
| | 3 | C.R. Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input checked="" type="checkbox"/> LP EH |
| | 4 | main Gov Journ. | <input checked="" type="checkbox"/> Yoke BF <input checked="" type="checkbox"/> Coil <i>DP</i> <input checked="" type="checkbox"/> UT RM <input type="checkbox"/> LP <i>NA</i> |

NEW CRANKSHAFT
S/N 693 M
PO# 310552-26

| Cyl # | A r r a n g e m e n t # | Location | N.D.E. Method + Initials | | | |
|--------|--|-------------------|---|---|---|---|
| Cyl #7 | 1 | main Gen Journ | <input checked="" type="checkbox"/> Yoke BF | <input checked="" type="checkbox"/> Coil D.P. | <input checked="" type="checkbox"/> UT RM | <input checked="" type="checkbox"/> LP D.P. |
| | 2 | C.R. Journ | <input checked="" type="checkbox"/> Yoke BF | <input checked="" type="checkbox"/> Coil D.P. | <input checked="" type="checkbox"/> UT RM | <input checked="" type="checkbox"/> LP EH |
| | 3 | C.R. Journ | <input checked="" type="checkbox"/> Yoke BF | <input checked="" type="checkbox"/> Coil D.P. | <input checked="" type="checkbox"/> UT RM | <input checked="" type="checkbox"/> LP EH |
| | 4 | main Gov Journ | <input checked="" type="checkbox"/> Yoke BF | <input checked="" type="checkbox"/> Coil D.P. | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP N/A |
| Cyl #8 | 1 | main Gen Journ | <input checked="" type="checkbox"/> Yoke D.P. | <input checked="" type="checkbox"/> Coil D.P. | <input checked="" type="checkbox"/> UT | <input type="checkbox"/> LP N/A |
| | 2 | C.R. Journ | <input checked="" type="checkbox"/> Yoke D.P. | <input checked="" type="checkbox"/> Coil D.P. | <input checked="" type="checkbox"/> UT | <input checked="" type="checkbox"/> LP D.P. |
| | 3 | C.R. Journ | <input checked="" type="checkbox"/> Yoke D.P. | <input checked="" type="checkbox"/> Coil D.P. | <input checked="" type="checkbox"/> UT | <input type="checkbox"/> LP N/A |
| | 4 | main Gov Journ | <input checked="" type="checkbox"/> Yoke D.P. | <input checked="" type="checkbox"/> Coil D.P. | <input checked="" type="checkbox"/> UT | <input type="checkbox"/> LP N/A |



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | | |
|---|--|---|--|---|---------------------------------|---|
| A. MATERIAL | | TYPE <u>C/S</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> <u>Forged</u> |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input type="checkbox"/> OTHER: <u>Conch</u> |
| CROSS SECTION THICKNESS | MAX <u>13"</u> | MIN <u>12"</u> | SURFACE CONDITION | <input checked="" type="checkbox"/> <u>MAG. LIND</u> | <input type="checkbox"/> GROUND | |
| | INCH | INCH | | <input type="checkbox"/> AS FABRICATED | <input type="checkbox"/> OTHER | |
| N. NDE PROCEDURE NO. <u>71-2</u> | | MATERIAL NO. <u>PO# 310552-26</u> | | EQUIPMENT I.I. S/N <u>Y6-C</u> MATE. NO. <u>N/A</u> | | |
| TECHNIQUE | <input type="checkbox"/> PRODS | <input checked="" type="checkbox"/> <u>WET</u> | <input type="checkbox"/> COIL | <input type="checkbox"/> OTHER | | |
| CURRENT | <input checked="" type="checkbox"/> AC | <input type="checkbox"/> DC | <input type="checkbox"/> HW/DC | <input checked="" type="checkbox"/> 10 LB. PLATE <input type="checkbox"/> 40 LB. PL. | | |
| WIRE <u>N/A</u> | | SPACING | | | | |
| AMPS. <u>N/A</u> | | YOKE <u>12" max</u> | | PRODS <u>N/A</u> | | |
| MATERIALS | <input type="checkbox"/> DRY | <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>Magnaglo 14 M</u> <u>Batch # 831036</u> | | | |
| SKETCH OR OTHER DETAIL:  <p>#1 con rod pin & main journal critical areas</p> <p>Sketch above shows fuzzy indications in main journal Gen. End of #1 con. rod pin</p> | | | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | | | |
| #1 | None | N/A | No relevant indications | | | |
| #2 | None | N/A | No relevant indications | | | |
| #3 | None | N/A | No relevant indications | | | |
| #4 Main journal Gen. End of #1 con. Rod pin | 1 1/2 - 2 | linear fuzzy indication | Indications to be L.P. inspected per NDE 7.1-2 - see attached L.P. report | | | |
| NDE 7.1-2 | | <u>William J. Zumbach</u> <u>II</u> <u>9/9/53</u> | | | | |

 COMPONENT I.D. New Crankshaft
 #1 CYL.
 S/N 693M
 1
 SYSTEM
 12413

 PLANT/LOCATION
 TB-63-E

 ASSISTED BY
 J. P. NICK
 9-9-53

William J. Zumbach
II 9/9/53
 DATE



LIQUID PENETRANT EXAMINATION REPORT

| | | | | | | | |
|-------------------------|----------|--------------|--------------------|--|---------------------------------|--------------------------------|--|
| A. MATERIAL | | TYPE | FABRICATED PROCESS | | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> ^{Forged} WORKED |
| | | Carbon Steel | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: Crank Shaft |
| CROSS SECTION THICKNESS | MAX INCH | MIN INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | <input type="checkbox"/> OTHER | |
| | | | | <input type="checkbox"/> AS FABRICATED | | | |

| | | | |
|---------------|-----------------|-----|----------|
| B. INSPECTION | TEMP. / FLAT'L. | 366 | 10-22-83 |
| 63 | 78°F | | |

| INSPECTION MATERIALS | BRAND | DESIGNATION | BATCH NO. |
|------------------------------|-----------|-------------|-----------|
| 1. PRE-CLEANER | Magnaflux | SKC-NF/ZC7B | 82D119 |
| 2. PENETRANT | Magnaflux | ZL-22A | 83F003 |
| 3. EMULSIFIER AND/OR REMOVER | Magnaflux | SKC-NF/ZC7B | 82D119 |
| 4. DEVELOPER | Magnaflux | SKD-NF | 82D111 |
| 5. POST EXAMINATION CLEANER | Magnaflux | SKC-NF/ZC7B | 82D119 |

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY. Attached

L.P. exam as a follow up to M.T. per 7.1-2.

Cyl #1

ASSISTED BY J. PINK 9-9-83

| | |
|---------------|--|
| C. EVALUATION | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE. |
|---------------|--|

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|--------------------|---------------|-------------|--|
| ① See Sketch | None | N/A | Accept (No relevant inds) |
| ② | | | |
| ③ | | | |
| ④ | | | |
| LICO N.D.E. 63-422 | | | Carl Hamill 9/9/83 |

| | | |
|---------|-------------|--------|
| E. TEST | Carl Hamill | 9/9/83 |
|---------|-------------|--------|

COMPONENT I.D. IR43X E.C. 1
Cyl Governor End Main Journal
New Crankshaft SN 6934
IR43X EMERG. D.S. GEN
SYSTEM

PLANT/LOCATION
Turbine Deck, East side class



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | |
|-------------|---------------------|-------------------------------|---------------------------------|--|--|
| A. MATERIAL | TYPE <u>C/S</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> ^{Forged} WORKED |
| | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: <u>Component</u> |
| THICKNESS | MAX <u>13"</u> INCH | MIN <u>12"</u> INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND |
| | | | | <input type="checkbox"/> AS FABRICATED | <input type="checkbox"/> OTHER |

| | | | |
|-----------------------------------|--------------------------|--------------------------------|---------------------|
| B. NDE PROCEDURE NO. <u>7.1-2</u> | NO. <u>20# 310552-26</u> | EQUIPMENT I.D. S/N <u>Y6-C</u> | MATE NO. <u>N/A</u> |
|-----------------------------------|--------------------------|--------------------------------|---------------------|

| | | | | |
|-----------|--|--|--------------------------------|--|
| TECHNIQUE | <input type="checkbox"/> PROBE | <input checked="" type="checkbox"/> COIL | <input type="checkbox"/> COIL | <input type="checkbox"/> OTHER |
| CURRENT | <input checked="" type="checkbox"/> AC | <input type="checkbox"/> DC | <input type="checkbox"/> HW/DC | <input checked="" type="checkbox"/> 10 LB. PLATE |
| | | | | <input type="checkbox"/> 40 LB. PLATE |
| SPACING | | DOKE <u>12" max</u> PRODS <u>N/A</u> | | |

| | | | | |
|-----------|------------------------------|---|-------------------|-----------------------|
| MATERIALS | <input type="checkbox"/> DRY | <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION | <u>Magnaglo 14 A</u> |
| | | | | <u>Batch # S31036</u> |

SKETCH OR OTHER DETAIL:

Sketch above shows fuzzy indications in worn rod pin

#2 con. rod pin & main journal critical areas

ASSISTED BY J. PINK 9/9/53

C. EVALUATION

REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|----------|---------------|--------------------------|---|
| #1 | none | N/A | No relevant indication |
| #2 | 1/4 x 1/8 | linear fuzzy indications | Indication to be & P. inspected per NDE 7.1-2. See attached & P. report |
| #3 | none | N/A | No relevant indications |
| #4 | none | N/A | " |

| | | | |
|--------------|--------------------|------|---------------|
| D. INSPECTOR | <u>[Signature]</u> | DATE | <u>9/9/53</u> |
|--------------|--------------------|------|---------------|

| | | | |
|-------------|--------------------|------|---------------|
| E. REVIEWER | <u>[Signature]</u> | DATE | <u>9/9/53</u> |
|-------------|--------------------|------|---------------|

COMPONENT I.D. New Conn. Rod Pin
#2 C/S
1843
SYSTEM

7B-63-1-E



LIQUID PENETRANT EXAMINATION REPORT

| | | | | | | |
|-------------------------|-----|----------|-------------------------------|--|---------------------------------|--|
| A. MATERIAL | | TYPE | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> FORGED WORKED |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: <i>Crankshaft</i> |
| CROSS SECTION THICKNESS | MAX | MIN | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | |
| | | | | <input type="checkbox"/> AS FABRICATED | <input type="checkbox"/> OTHER | |

WIDE PROCEURE
 1. 63
 TEMP. 78°F
 10-22-83
 PO # 310552-26

| INSPECTION MATERIALS | BRAND | DESIGNATION | BATCH NO. |
|------------------------------|-----------|-------------|-----------|
| 1. PRE-CLEANER | Magnaflux | SKC-NE/ZC7B | 82D119 |
| 2. PENETRANT | Magnaflux | ZL-22A | 83F003 |
| 3. EMULSIFIER AND/OR REMOVER | Magnaflux | SKC-NE/ZC7B | 82D119 |
| 4. DEVELOPER | Magnaflux | SKD-NE | 82D111 |
| 5. POST EXAMINATION CLEANER | Magnaflux | SKC-NE/ZC7B | 82D119 |

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY. *Attached*

L.P. exam as a follow up to MT per 7.1-2

Cyl #2

ABSTRACTED BY J. Pink TP 9-9-83

C. EVALUATION

REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE.

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|--------------------------------|---------------|-------------|--|
| 1. <i>See sketch N/A E. 1+</i> | <i>None</i> | <i>N/A</i> | <i>Accept (No relevant inds)</i> |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| LICO NDE 63 4 2 2 | | | <i>Carl Hassell</i> II 9/9/83 |

E. 11

Carl Hassell

LEVEL CERTIFIED PERSONNEL

II
LEVEL

9/9/83
DATE

COMPONENT I.D. 1 R43
 #2 Cyl. Con Rod Pin Journal
 New Crankshaft 5/16 93M

SYSTEM
 1R43M Emerg. Dies. Gen.

PLANT/LOCATION
 Turbine Deck East Side EICS.



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | |
|-------------------------|-------------------|-------------------|---|--|--|
| A. MATERIAL | | TYPE <u>C/S</u> | FABRICATED PROCESS | FORGING | |
| | | GEOMETRY | <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD | <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> WORKED | |
| CROSS SECTION THICKNESS | MAX <u>—</u> INCH | MIN <u>—</u> INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND | <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER |

| | | |
|-----------------------------------|----------------------|---|
| B. NDE PROCEDURE NO. <u>7.1-2</u> | <u>PO# 310352-26</u> | EQUIPMENT I.D. <u>SN 681032</u> DATE NO. <u>NA</u> |
|-----------------------------------|----------------------|---|

| | |
|-----------|--|
| TECHNIQUE | <input type="checkbox"/> PRODS <input type="checkbox"/> YOKE <input checked="" type="checkbox"/> COIL <input type="checkbox"/> OTHER |
|-----------|--|

| | |
|---------|---|
| CURRENT | <input type="checkbox"/> AC <input type="checkbox"/> DC <input checked="" type="checkbox"/> HW/DC |
|---------|---|

| | | | |
|---------------------------------|--------------------------|-----------------------|--------------------------|
| WAVELENGTH <u>1000/STANDARD</u> | AMPS. PER IN. <u>N/A</u> | WAVELENGTH <u>N/A</u> | AMPS. PER IN. <u>N/A</u> |
|---------------------------------|--------------------------|-----------------------|--------------------------|

| | | |
|-----------|--|---|
| MATERIALS | <input type="checkbox"/> DRY <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>MAGNAGLO 14A</u> <u>BATCH #83C036</u> <u>.27ML</u> |
|-----------|--|---|

SKETCH OR OTHER DETAIL:
SEE THE ATTACHED SKETCH

ASSISTED BY
T. PINK 9-10-83

| | |
|---------------|---|
| C. EVALUATION | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE |
|---------------|---|

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|----------|---------------|----------------------------|---|
| #3 | NONE | N/A | NO RELEVANT INDICATIONS |
| #2 | NONE | N/A | NO RELEVANT INDICATIONS |
| #1 | 1" TO 3" LQ. | LINEAR SURFACE INDICATIONS | INDICATIONS TO BE L.P. INSPECTED FOR 7.1-2 SEE ATTACHED L.P. REPORT |
| #4 | NONE | N/A | NO RELEVANT INDICATIONS |

| | | |
|------------------|------------------|---|
| REFERENCE SYSTEM | <u>N/E 7.1-2</u> | <u>TENNIS PIETROWSKI</u> <u>II</u> <u>9-10-83</u> |
|------------------|------------------|---|

| | | | |
|--------|----------------------|-----------|----------------|
| ATTENT | <u>T. Pietrowski</u> | <u>II</u> | <u>9-10-83</u> |
|--------|----------------------|-----------|----------------|

COMPONENT I.D. SRE 643M
MAIN BEARING JOURNAL BETWEEN #2 & #3 CYLINDERS

SYSTEM
1945A

LOCATION
SN 681032 / TURBINE (SEE 63' ELEV)



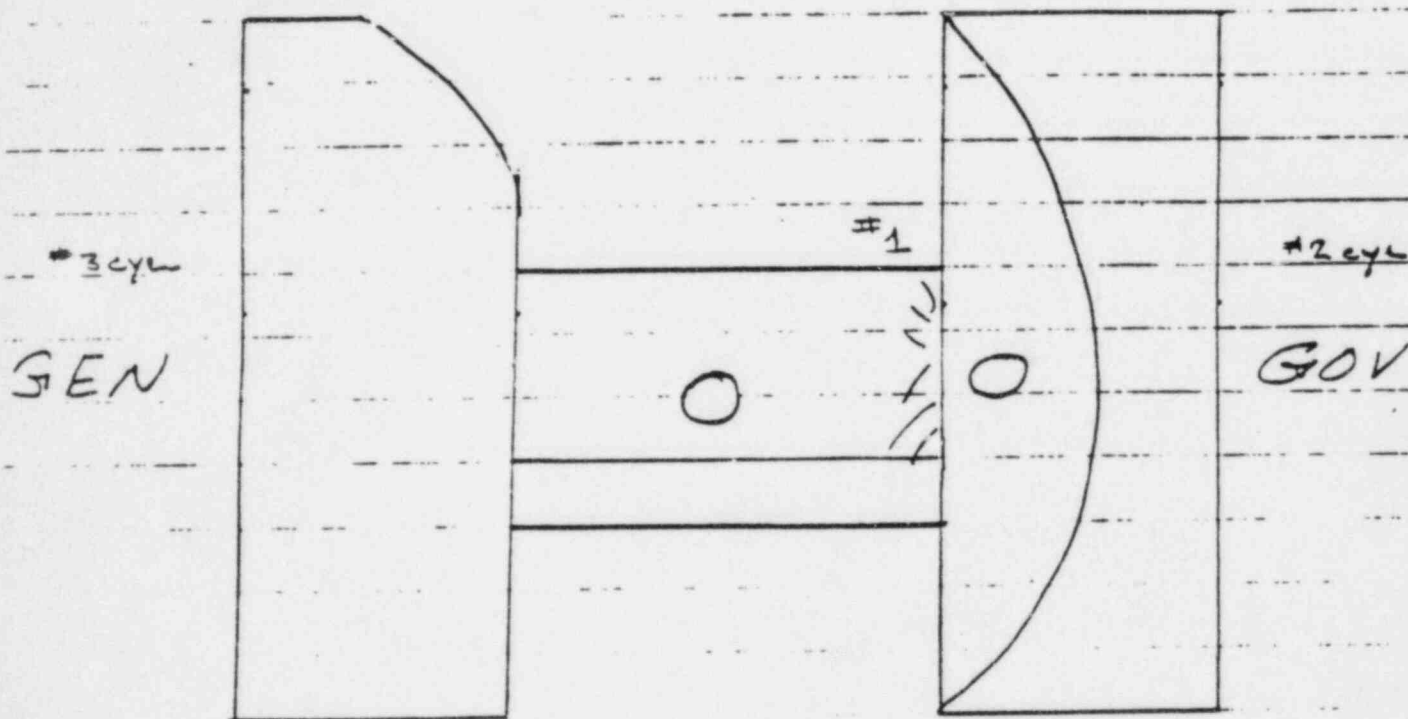
LIQUID PENETRANT EXAMINATION REPORT

| | | | | | | |
|---|--------------------|--|---|--|---------------------------------|---|
| A. MATERIAL | | TYPE CARBON STEEL | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> ^{FORGED} WORKED |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: <i>CRANK SHAFT</i> |
| CROSS SECTION THICKNESS | MAX N/A INCH | MIN N/A INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | <input type="checkbox"/> OTHER |
| | | | <input type="checkbox"/> AS FABRICATED | | | |
| Q. IDENTIFICATION 6.3/11-2 | | TEMP. 80°F | | 366 | | Due 10-22-03 |
| INSPECTION MATERIALS | | BRAND | DESIGNATION | BATCH NO. | | |
| 1. PRE-CLEANER | | MAGNAFLUX | SKC-NF/2C-7B | 82D119 | | |
| 2. PENETRANT | | MAGNAFLUX | ZL-22A | 83F003 | | |
| 3. EMULSIFIER AND/OR REMOVER | | MAGNAFLUX | SKC-NF/2C-7B | 82D119 | | |
| 4. DEVELOPER | | MAGNAFLUX | SKD-NF | 82D111 | | |
| 5. POST EXAMINATION CLEANER | | MAGNAFLUX | SKC-NF/2C-7B | 82D119 | | |
| SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY MAIN BEARING JOURNAL BETWEEN CYL # 2 & 3 LP INSPECTION AS FOLLOW UP TO METHOD M.T. SEE ATTACHED SKETCH ASSISTED BY JOHN PINK 9-10-03 TP | | | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE. | | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | | | |
| #1 | NONE | N/A | NO RELEVANT INDICATIONS | | | |
| #2 | NONE | N/A | NO RELEVANT INDICATIONS | | | |
| #3 | NONE | N/A | NO RELEVANT INDICATIONS | | | |
| #4 | NONE | N/A | NO RELEVANT INDICATIONS | | | |
| NYE 71-2+6.3 | | KENNIS PIOTROWSKI II 9/10/03 | | | | |
| E. ATTEST | | | II | | 9/10/03 | |

COMPONENT I.D.
NEW CRANK SHAFT
S/N # 693MSYSTEM
1R-A3*PLANT/LOCATION
SNB-1 / TURBINE DECK

MAIN BEARING JOURNAL BETWEEN CYL #2 & 3

TOP VIEW
LOOKING DOWN



NEW CRANKSHAFT S/N #693M



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | |
|--|--|--|---|--|---|
| A. MATERIAL | | TYPE <u>C/S</u> | FABRICATED PROCESS | FORMING PROCESS | |
| | | GEOMETRY | <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD <input checked="" type="checkbox"/> OTHER: <u>CRANK SHAFT</u> | <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> FORGED | |
| CROSS SECTION THICKNESS | MAX <u>13"</u> INCH | MIN <u>12"</u> INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHISED <input type="checkbox"/> GROINED | EQUIPMENT I.D. S/N <u>46-C</u> DATE NO. <u>N/A</u> |
| B. MPE PRODUCT NO. <u>7.1-2</u> | | MWA/BR NO. <u>PO#310522-26</u> | <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER | | |
| TECHNIQUE | <input type="checkbox"/> PRODS | <input checked="" type="checkbox"/> Yoke | <input type="checkbox"/> COIL | <input type="checkbox"/> OTHER | C. EVALUATION |
| CURRENT | <input checked="" type="checkbox"/> AC | <input type="checkbox"/> DC | <input type="checkbox"/> HW/DC | <input checked="" type="checkbox"/> 10 LB PLATE <input type="checkbox"/> 40 LB | |
| MATERIALS | | <input type="checkbox"/> DRY <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>MAGNAGLO 14A</u> <u>BATCH #83C036</u> <u>.27 ML.</u> | | |
| SKETCH OR OTHER DETAIL: M.T. INSPECTION PER N/E 7.1-2 OF #3 CYL. WAS FOUND SAT. AT TIME OF INSPECTION (Yoke Method) | | | | | |
| | | | | | |
| REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | | | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | | |
| #1 | NONE | N/A | NO RELEVANT INDICATIONS | | |
| #2 | " | " | " " " | | |
| #3 | " | " | " " " | | |
| #4 | " | " | " " " | | |
| D. EVALUATION | N/E 7.1-2 | | DENNIS PIETROWSKI II 9/9/83 | | |
| E. ACCEPT | | | II 9/9/83 LEVEL DATE | | |

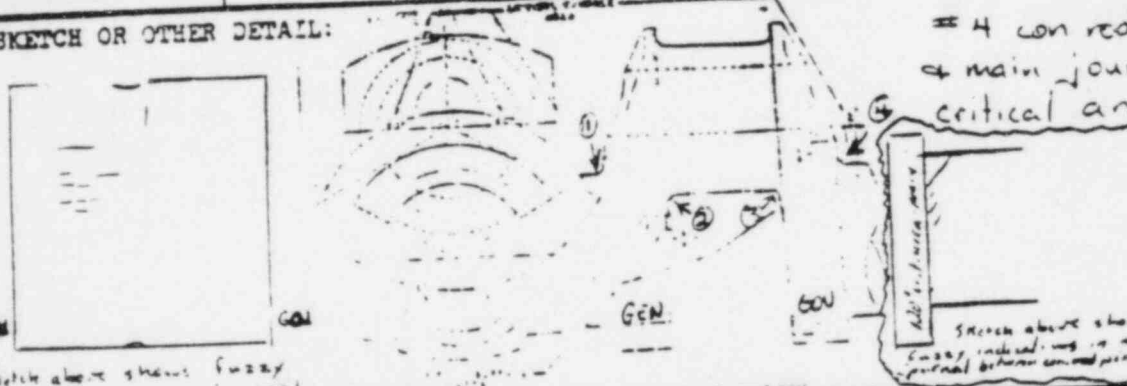
 COMPONENT I.D. S/N #69314
 CYLINDER #3

 BISTEN
 18434

 FLARE/LOCATION
 S/N#-1/TURBINE (SEE 63' ELEV.)



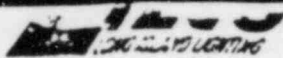
MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | | |
|---|--|--|---|---|---------------------------------|--|
| A. MATERIAL | | TYPE <u>C/S</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> ^{Forged} WORKED |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: <u>Crankshaft</u> |
| CROSS SECTION THICKNESS | MAX <u>13"</u> INCH | MIN <u>12"</u> INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | |
| | | | | <input type="checkbox"/> AS FABRICATED | <input type="checkbox"/> OTHER | |
| B. NDE PROCEDURE NO. <u>7.1-2</u> | | QW/RR NO. <u>90#310552-26</u> | EQUIPMENT I.D. S/N <u>Y6-C</u> MATE NO. <u>N/A</u> | | | |
| TECHNIQUE | <input type="checkbox"/> PRODS | <input checked="" type="checkbox"/> Yoke | <input type="checkbox"/> COIL | <input type="checkbox"/> OTHER | | |
| CURRENT | <input checked="" type="checkbox"/> AC | <input type="checkbox"/> DC | <input type="checkbox"/> HW/DC | <input checked="" type="checkbox"/> 10 lb. PLATE <input type="checkbox"/> 40 lb. PLATE | | |
| AMPS. <u>N/A</u> | | SPACING | | <u>N/A</u> | | |
| AMPS. PER IN. <u>N/A</u> | | Yoke <u>12" max.</u> | | PRODS <u>N/A</u> | | |
| MATERIALS | <input type="checkbox"/> DRY | <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>Magnaflo 14A</u> <u>Batch #530036</u> | | | |
| SKETCH OR OTHER DETAIL:  <p>Sketch above shows fuzzy indication in main journal between con. red pins. #4 con red pin & main journal critical areas</p> | | | | | | |
| C. EVALUATION | | | | | | |
| REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | | | | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | | | |
| #1 Main Journal between #4 & #5 con. red pins. | 1/2" to 4" | linear fuzzy indications | Indications to be L.P. inspected per 7.1-2. See Attached L.P. report. | | | |
| #2 | None | N/A | No Relevant Indications | | | |
| #3 | None | N/A | No Relevant Indications | | | |
| #4 Main Journal between #4 & #3 con. red pins. | 2" to 5" | linear fuzzy indications | Indications to be L.P. inspected per 7.1-2 See Attached L.P. report | | | |
| D. RECOMMENDATION | NDE 7.1-2 | | | | | |
| E. ATTEST | Signature: <u>[Signature]</u> | | LEVEL <u>II</u> | | DATE <u>9/9/83</u> | |

 COMPONENT I.D. New Crankshaft 1
 S/N 6934
 #4 C/S
 SYSTEM
 1243

 LAB/LOCATION
 TB-63-E

ASSIGNED BY J.P.K. 8/29/83



LIQUID PENETRANT EXAMINATION REPORT

| | | | | | |
|---|---------------|--|--|--|---------------|
| A. MATERIAL | | TYPE <u>Carbon Steel</u> | | FABRICATED PROCESS <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> <u>WORKED</u> | |
| CROSS SECTION THICKNESS | | MAX 13" INCH | MIN 12" INCH | SURFACE CONDITION <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER | |
| J. NDT PROCEDURE 6.3 | | TEMP. / MAT'L. 78°F | | 366 10-22-83 -PO#310552-26 | |
| INSPECTION MATERIALS | | BRAND | DESIGNATION | | BATCH NO. |
| 1. PRE-CLEANER | | <u>Magnaflux</u> | <u>SKC-NF/ZC7B</u> | | <u>82D119</u> |
| 2. PENETRANT | | | <u>ZL-22A</u> | | <u>83F003</u> |
| 3. EMULSIFIER AND/OR REMOVER | | | <u>SKC-NF/ZC7B</u> | | <u>82D119</u> |
| 4. DEVELOPER | | | <u>SKD-NF</u> | | <u>82D111</u> |
| 5. POST EXAMINATION CLEANER | | | <u>SKC-NF/ZC7B</u> | | <u>82D119</u> |
| SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY <u>Attached</u> L.P. exam as a follow up to M.T. per 7.1-2 Main Journal between Cyls #3 + #4 | | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE. | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | | |
| See Sketch 1 <u>N/A</u> E.14 | <u>None</u> | <u>N/A</u> | <u>Accept (No relevant inds.)</u> | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| Lilcon DE 63-4-22 | | <u>Earl Hassell</u> <u>II</u> <u>9/9/83</u> | | | |
| E. ATTEST | | <u>Earl Hassell</u> <u>II</u> <u>9/9/83</u> | | | |

COMPONENT I.D. IR43
 Main Journal between Cyls #3 + #4
 New Crankshaft 2N693M
 SYSTEM
 IR43 Emgrg. Dies. Cars.

PLANT/LOCATION
 Turbine Deck East Side E153



LIQUID PENETRANT EXAMINATION REPORT

| | | | | | | |
|-------------------------------|------------------------|-----------------------------|-----------------------|--|---------------------------------|---|
| A. MATERIAL | | TYPE <u>Carbon Steel</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> <u>Forged</u> WORKED |
| CROSS SECTION THICKNESS | MAX <u>13" INCH</u> | MIN <u>12" INCH</u> | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | <input type="checkbox"/> OTHER: <u>Blank</u> |
| | | | | <input type="checkbox"/> AS FABRICATED | <input type="checkbox"/> OTHER | |

| | | | |
|---------------------------------|-------------------------------|-------------------------------|--------------------|
| 3. SOL. PROCEDURE <u>6.3</u> | TEMP. / MAT'L. <u>78°F</u> | <u>366</u> <u>10-22-83</u> | <u>P#310552-26</u> |
|---------------------------------|-------------------------------|-------------------------------|--------------------|

| | | | |
|---------------------------------|------------------|--------------------|---------------|
| INSPECTION MATERIALS | BRAND | DESIGNATION | BATCH NO. |
| 1. PRE-CLEANER | <u>Magnaflux</u> | <u>SKC-NF/ZC7B</u> | <u>82D119</u> |
| 2. PENETRANT | | <u>ZL22A</u> | <u>83F003</u> |
| 3. EMULSIFIER AND/OR REMOVER | | <u>SKC-NF/ZC7B</u> | <u>82D119</u> |
| 4. DEVELOPER | | <u>SKD-NF</u> | <u>82D111</u> |
| 5. POST EXAMINATION CLEANER | <u>V</u> | <u>SKC-NF/ZC7B</u> | <u>82D119</u> |

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY: Attached

L.P. exam as follow up to M.T. per 7.1-2.

Main Journal between:

Cyl #4 + 5

| | |
|---------------|--|
| C. EVALUATION | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE. |
|---------------|--|

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|-------------------|---------------------------|-------------|--|
| <u>See sketch</u> | | | |
| 1 <u>N/A</u> | <u>None</u> | <u>N/A</u> | <u>Accept (No relevant inds.)</u> |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| | <u>Like NDE G.3.4.2.2</u> | | <u>Carl Hassell</u> <u>II</u> <u>9/9/83</u> |

TEST

Carl Hassell

II

9/9/83

COMPONENT I.D. IR43
Main Journal Btwn. Cyls #4 + 5
Main Crankshaft s/v #93M

SYSTEM IR43
Emerg. Dies. Gen.

PLANT/LOCATION
Turbine Deck East Side E1.6

C-32-14



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | | |
|--|--|---|---|---|---------------------------------|--|
| A. MATERIAL | | TYPE <u>L/S</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> ^{Forged} WORKED |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: <u>Crankshaft</u> |
| WALL THICKNESS | <u>13"</u> INCH | MLN <u>12"</u> INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | <input type="checkbox"/> OTHER |
| B. NDE PROCEDURE NO. <u>7.1-2</u> | | MT/RR NO. <u>P.O. # 310552-26</u> | EQUIPMENT I.D. S/N <u>Y6-C</u> MATE. NO. <u>N/A</u> | | | |
| TECHNIQUE | <input type="checkbox"/> PRODS | <input checked="" type="checkbox"/> COIL | <input type="checkbox"/> COIL | <input type="checkbox"/> OTHER | | |
| CURRENT | <input checked="" type="checkbox"/> AC | <input type="checkbox"/> DC | <input type="checkbox"/> HW/DC | <input checked="" type="checkbox"/> 10 LB. PLATE <input type="checkbox"/> 40 LB. PLATE | | |
| AMPS. <u>N/A</u> | | SPACING | | VOKE <u>12" max</u> PRODS <u>N/A</u> | | |
| MATERIALS | <input type="checkbox"/> DRY | <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>Magnaglo 14A</u> <u>Batch # 83036</u> | | | |
| SKETCH OR OTHER DETAIL: Sketch shows fuzzy indications in con. rod pin #5 con rod pin & main journal critical areas. AS STED 3/5 J. PINK 19983 | | | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | | | |
| #1 | <u>none</u> | <u>N/A</u> | <u>No relevant indications</u> | | | |
| #2 | } <u>1"</u> <u>2"</u> | <u>linear fuzzy indications</u> | <u>Indications to be L.P. inspected per NDE 7.1-2. See attached</u> | | | |
| #3 | | <u>as shown in sketch</u> | <u>L.P. report</u> | | | |
| #4 | <u>none</u> | <u>N/A</u> | <u>No relevant indications</u> | | | |
| NDE 7.1-2 | | <u>Signature: J. Pink</u> <u>Date: 9/9/53</u> | | | | |
| SIGNATURE | | <u>Signature: J. Pink</u> <u>Date: 9/9/53</u> | | | | |

COMPONENT I.D. New Crankshaft 1

SYSTEM

PLANT LOCATION



LIQUID PENETRANT EXAMINATION REPORT

| | | | | | | |
|-------------------------------|---------------------------|-----------------------------|-------------------------------|--|---------------------------------|---|
| A. MATERIAL | | TYPE <u>Carbon Steel</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> <u>Forged</u> WORKED |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: <u>Shaft</u> |
| CROSS SECTION THICKNESS | MAX <u>13"</u> INCH | MIN <u>12"</u> INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | <input type="checkbox"/> OTHER |
| | | | | <input type="checkbox"/> AS FABRICATED | <input type="checkbox"/> OTHER | |

| | | | |
|--------------------------------|---|-------------------------|----------------------|
| 3. NDT PROCEDURE <u>G.3</u> | TEMPERATURE / MATERIAL TEMP. <u>78°F</u> | DATE <u>10-22-93</u> | TIME <u>10:30</u> |
|--------------------------------|---|-------------------------|----------------------|

| INSPECTION MATERIALS | BRAND | DESIGNATION | BATCH NO. |
|---------------------------------|------------------|--------------------|---------------|
| 1. PRE-CLEANER | <u>Magnaflux</u> | <u>SKC-NF/XC7B</u> | <u>82D119</u> |
| 2. PENETRANT | | <u>AL 22A</u> | <u>83F003</u> |
| 3. EMULSIFIER AND/OR REMOVER | | <u>SKC-NF/XC7B</u> | <u>82D119</u> |
| 4. DEVELOPER | | <u>SKD-NF</u> | <u>82D111</u> |
| 5. POST EXAMINATION CLEANER | | <u>SKC-NF/XC7B</u> | <u>82D119</u> |

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY: Attached

L.P exam as follow up to M.T. per 7.1-2

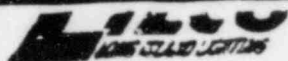
Cyl #5

| | |
|---------------|--|
| C. EVALUATION | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE. |
|---------------|--|

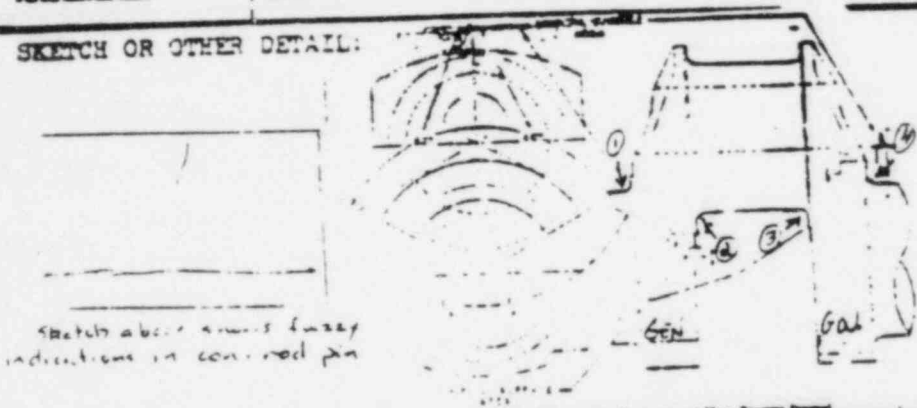
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|---|---------------------|-------------|--|
| <u>See sketch</u> 1 <u>N/A C. 14</u> | <u>None</u> | <u>N/A</u> | <u>Accept (No relevant inds)</u> |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| Lilco M.D.G. 6.3-4.2.2 | | | <u>Carl Hassell</u> <u>II</u> <u>9/9/93</u> |
| TEST | <u>Carl Hassell</u> | | <u>II</u> <u>9/9/93</u> |

COMPLIANT I.D. 1843
#5 Cyl. Con Rod Pin Journal
New Cran Shaft 5/1693M
SYSTEM 1843
Emerg. Dis. Con

PLANT/LOCATION
Turbine Deck East Side E1.0



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | | |
|--|---|---|--|---|---------------------------------|--|
| A. MATERIAL | | TYPE <u>C/S</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> WORKED |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: <u>Con. Rod</u> |
| CROSS SECTION THICKNESS | MAX <u>13</u> INCH | MIN <u>12</u> INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | <input type="checkbox"/> OTHER |
| B. NDE PROCEDURE NO. <u>71-2</u> | | NO. <u>PO# 310552-26</u> | EQUIPMENT I.I. S/N <u>Y6-C</u> MATE NO. <u>N/A</u> | | | |
| TECHNIQUE | <input type="checkbox"/> PRODS | <input checked="" type="checkbox"/> Yoke | <input type="checkbox"/> COIL | <input type="checkbox"/> OTHER | | |
| CURRENT | <input checked="" type="checkbox"/> AC | <input type="checkbox"/> DC | <input type="checkbox"/> HW/DC | <input checked="" type="checkbox"/> 10 LB. PLATE <input type="checkbox"/> 40 LB. PLATE | | |
| MATERIALS | | <input type="checkbox"/> DRY | <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>Magnaglo 144</u> <u>Batch # 83036</u> | | |
| SKETCH OR OTHER DETAIL:  <p># 6 con. rod pin a main journal critical areas.</p> <p>ASSISTED BY J. Pink 7-9-55</p> | | | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | | | |
| #1 | none | N/A | No relevant indications | | | |
| #2 | linear fuzzy indications as shown in sketch | 3" linear | Indications to be L.P. inspected per NDE 71-2 - see attached L.P. report | | | |
| #3 | | 7" linear | " | | | |
| #4 | none | N/A | No relevant indications | | | |
| D. APPROVED BY | NDE 71-2 | | <u>William J. Zumbach</u> <u>II</u> 9/9/55 LEVEL DATE | | | |

COMPONENT I.D. New Con. Rods

SYSTEM

PLANT/LOVE-003



LIQUID PENETRANT EXAMINATION REPORT

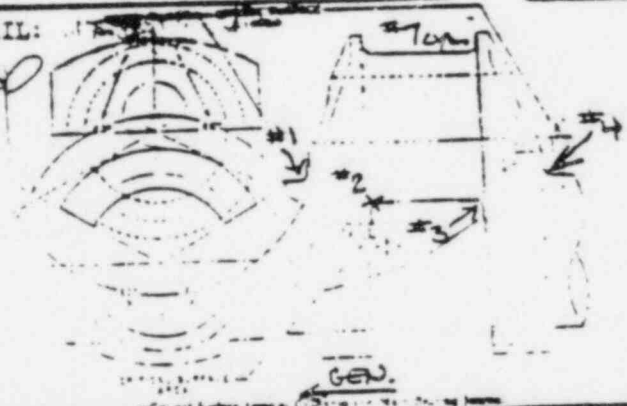
| | | | | | |
|--|-----------------------|--|---|-------------------------------|--|
| A. MATERIAL | | TYPE <u>C/S</u> | FABRICATED PROCESS <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> <u>Forged</u> WORKED | | PLANT/LOCATION Turbine Dock E1.65 |
| | | GEOMETRY <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD <input checked="" type="checkbox"/> OTHER: <u>Crankshaft</u> | | | |
| CROSS SECTION THICKNESS | MAX <u>13</u> INCH | MIN <u>12</u> INCH | SURFACE CONDITION <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER | | |
| 1. SIZE INCHES <u>1 1/2</u> <u>G.3</u> | | TEMPERATURE / MATERIAL <u>78°F</u> | | <u>366</u> <u>10-22-83</u> | <u>Bo #310552-26</u> |
| INSPECTION MATERIALS | | BRAND | DESIGNATION | BATCH NO. | |
| 1. PRE-CLEANER | | <u>Magnaflux</u> | <u>SKC-NF/ZC7B</u> | <u>82D119</u> | |
| 2. PENETRANT | | | <u>IL-22A</u> | <u>83F003</u> | |
| 3. EMULSIFIER AND/OR REMOVER | | | <u>SKC-NF/ZC7B</u> | <u>82D119</u> | |
| 4. DEVELOPER | | | <u>SKD-NF</u> | <u>82D111</u> | |
| 5. POST EXAMINATION CLEANER | | | <u>SKC-NF/ZC7B</u> | <u>82D119</u> | |
| SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY <u>Cyl #6 Con Rod</u> <u>Journal (critical area)</u> <u>L.P exam as a follow up to M.T.</u> | | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE. | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACT (ACCEPT/REJECT AND COMMENT AS NECESSARY) | | |
| 1 | | | | | |
| ② <u>See M.T. Report</u> | <u>None</u> | <u>N/A</u> | <u>No relevant indications</u> | | |
| ③ | <u>None</u> | " | " | | |
| | | | | | |
| | | | | | |
| | | <u>63-4-22</u> | <u>Carl Hassell</u> <u>II</u> <u>9/9/83</u> | | |
| E. ATTEST | | <u>Carl Hassell</u> <u>II</u> <u>9/9/83</u> | | | |

 COMPONENT I.D. IR43
 New Crankshaft 5/16 G3M

 SYSTEM IR43
 Emerg. Disa. Con.



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | |
|--|---------------------|--|---|---|--|
| A. MATERIAL | | TYPE <u>C/S</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> FORGING WORKED | |
| | | GEOMETRY | <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD <input checked="" type="checkbox"/> OTHER: <u>CRANK SHAFT</u> | | |
| CROSS SECTION THICKNESS | MAX <u>—</u> INCH | MIN <u>—</u> INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER | |
| N. DE PROCEDURE NO. <u>7.1-2</u> | | PART NO. <u>PO 310552-26</u> SERIAL NO. <u>681032</u> DATE <u>N/A</u> | | COMPONENT I.D. <u>6.875 693M</u> MAIN BEARING JOURNAL BETWEEN <u>1</u> & <u>2</u> CYLINDERS SYSTEM <u>1943</u> PLANT/LOCATION <u>SULSA TURBINE DECK 65EV</u> | |
| TECHNIQUE | | <input type="checkbox"/> PRODS <input type="checkbox"/> YOKE <input checked="" type="checkbox"/> COIL <input type="checkbox"/> OTHER | | | |
| CURRENT | | <input type="checkbox"/> AC <input type="checkbox"/> DC <input checked="" type="checkbox"/> HW/DC <input type="checkbox"/> OTHER | | | |
| AMP. <u>1000/5 TURNS</u> PER. IN. <u>N/A</u> <u>N/A</u> <u>N/A</u> | | | | | |
| MATERIALS | | <input type="checkbox"/> DRY <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>MAGNAGLO 14A</u> <u>BATCH # 83C036</u> <u>.27 ML</u> | | |
| SKETCH OR OTHER DETAIL: <u>SEE THE ATTACHED SKETCH.</u>  | | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | | |
| <u>#3</u> | <u>NONE</u> | <u>N/A</u> | <u>NO RELEVANT INDICATIONS</u> | | |
| <u>#2</u> | <u>NONE</u> | <u>N/A</u> | <u>NO RELEVANT INDICATIONS</u> | | |
| <u>#1</u> | <u>1" TO 2 1/2"</u> | <u>LINEAR SURFACE SCRATCHES</u> | <u>INDICATIONS TO BE L.P. INSPECTED PER 7.1-2, SEE ATTACHED L.P. REPORT</u> | | |
| <u>#4</u> | <u>NONE</u> | <u>N/A</u> | <u>NO RELEVANT INDICATIONS</u> | | |
| D. APPROVED | | <u>N/A 7.1-2</u> | | <u>GENEUS RETROWSKI</u> <u>II</u> <u>9/10/83</u> | |
| E. ATTENT | | <u>[Signature]</u> | | <u>II</u> <u>9/10/83</u> LEVEL DATE | |

C-32-19



LIQUID PENETRANT EXAMINATION REPORT

| | | | | | | |
|-------------------------------|---------------------------|-----------------------------|-------------------------------|--|---------------------------------|--|
| A. MATERIAL | | TYPE <u>CARBON STEEL</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> FORGED WORKED |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: <u>SHAFT</u> |
| CROSS SECTION THICKNESS | MAX <u>N/A</u> INCH | MIN <u>N/A</u> INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | <input type="checkbox"/> OTHER |
| | | | | <input type="checkbox"/> AS FABRICATED | <input type="checkbox"/> OTHER | |

| | | | |
|---------------------------------------|-------------------------------------|---------------------|------------------------|
| J. INSPECTION NO. <u>6.3/7.1-2</u> | TEMP. / MAT'L. TEMP. <u>80°F</u> | MAT. NO. <u>366</u> | NO. <u>20310552-26</u> |
| INSPECTION MATERIALS | | DESIGNATION | BATCH NO. |

| INSPECTION MATERIALS | BRAND | DESIGNATION | BATCH NO. |
|---------------------------------|------------------|---------------------|---------------|
| 1. PRE-CLEANER | <u>MAGNAFLUX</u> | <u>SKC-NF/2C-7B</u> | <u>82D119</u> |
| 2. PENETRANT | <u>MAGNAFLUX</u> | <u>ZL-22A</u> | <u>83F003</u> |
| 3. EMULSIFIER AND/OR REMOVER | <u>MAGNAFLUX</u> | <u>SKC-NF/2C-7B</u> | <u>82D119</u> |
| 4. DEVELOPER | <u>MAGNAFLUX</u> | <u>SKD-NF</u> | <u>82D111</u> |
| 5. POST EXAMINATION CLEANER | <u>MAGNAFLUX</u> | <u>SKC-NF/2C-7B</u> | <u>82D119</u> |

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY

MAIN BEARING JOURNAL BETWEEN CYL # 7 & 8
LP INSPECTION AS FOLLOW UP TO METHOD MT
SEE ATTACHED SKETCH

ASSISTED BY JOHN PINK 9-10-83

| | |
|---------------|--|
| C. EVALUATION | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE. |
|---------------|--|

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|------------------|------------------|-----------------------------|--|
| 1 #1 | <u>NONE</u> | <u>N/A</u> | <u>NO RELEVANT INDICATIONS</u> |
| 2 N/A | <u>N/A</u> | <u>N/A</u> | <u>N/A</u> |
| 3 N/A | <u>N/A</u> | <u>N/A</u> | <u>N/A</u> |
| 4 N/A | <u>N/A</u> | <u>N/A</u> | <u>N/A</u> |
| U. AC. 7.1-2-6.3 | | PENNIS. RETRACED 9/10/83 | |

| | |
|-----------|--------------------|
| E. ATTEST | <u>[Signature]</u> |
|-----------|--------------------|

COMPONENT I.D.
NEW CRANK SHAFT
5/28 693M

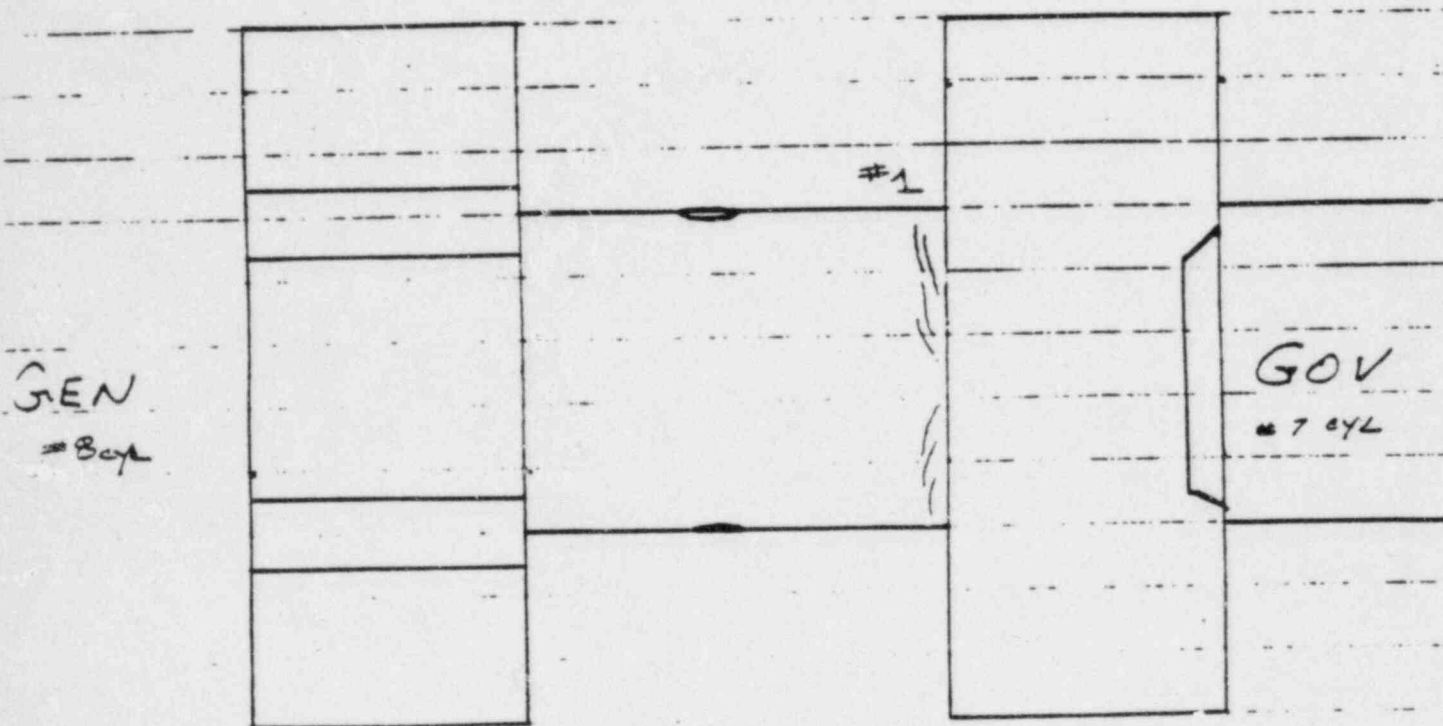
SYSTEM
IR-43*

PLANT/LOCATION
SWA-1/TURBINE DECK

MAIN BEARING JOURNAL BETWEEN CYL # 7 & 8

TOP VIEW

LOOKING DOWN



MT

SURFACE SCRATCHES

NEW CRANKSHAFT S/N # 693 M



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | | |
|--|--|---|--|---|---------------------------------|--|
| A. MATERIAL | | TYPE <u>C/S</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> ^{Forged} WORKED |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: <u>Crankshaft</u> |
| CROSS SECTION THICKNESS | MAX <u>13</u> INCH | MIN <u>12</u> INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | <input type="checkbox"/> OTHER |
| B. MPE PROCEDURE NO. <u>7.1-2</u> | | TEST/RR NO. <u>P.C. = 310332-26</u> | EQUIPMENT I.I. S/N <u>Y6-C</u> MATE NO. <u>N/A</u> | | | |
| TECHNIQUE | <input type="checkbox"/> PRODS | <input checked="" type="checkbox"/> Yoke | <input type="checkbox"/> COIL | <input type="checkbox"/> OTHER | | |
| CURRENT | <input checked="" type="checkbox"/> AC | <input type="checkbox"/> DC | <input type="checkbox"/> HW/DC | <input checked="" type="checkbox"/> 10 LB. PLATE <input type="checkbox"/> 40 LB. PLATE | | |
| A.M.P. <u>N/A</u> A.M.P. PER IN. <u>N/A</u> | | SPACING Yoke <u>12" max</u> PRODS <u>N/A</u> | | | | |
| MATERIALS | <input type="checkbox"/> DRY | <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>Magneto 14A</u> <u>Batch # 83C036</u> | | | |
| SKETCH OR OTHER DETAIL: | | | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | | | |
| #1 | none | N/A | No relevant indications | | | |
| #2 | } 3/8" to 3" | linear fuzzy indications as shown in sketch | Indications to be L.P. inspected per N.D.E. 7.1-2. See attached L.P. reports | | | |
| #3 | | | | | | |
| #4 | none | N/A | No relevant indications | | | |
| N.D.E. 7.1-2 | | <u>William J. P. Pink</u> <u>TA 9-9-83</u> | | | | |
| DATE | | SIGNATURE | | DATE | | |
| | | <u>William J. P. Pink</u> | | <u>9/9/83</u> | | |

COMPONENT I.D. New Crankshaft
S/N 643M
#7 CYL.SYSTEM
12413PLANT/LOCATION
703-631-E



LIQUID PENETRANT EXAMINATION REPORT

| | | | | | | | |
|-------------------------|----------|----------|-------------------------------|--|---------------------------------|--|--|
| A. MATERIAL | | TYPE | FABRICATED PROCESS | | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> Forged WORKED |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: <u>Crankshaft</u> | |
| CROSS SECTION THICKNESS | MAX | MIN | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | | |
| | 13" INCH | 12" INCH | | <input type="checkbox"/> AS FABRICATED | <input type="checkbox"/> OTHER | | |

| | | | |
|------------------|---------------|-------|-----------|
| 3. NDE PROCEDURE | TEMP. / AT'L. | P. T. | |
| 6.3 | 78°F | 366 | 10-22-83 |
| | | | 310552-26 |

| | | | |
|------------------------------|-----------|----------------|-----------|
| INSPECTION MATERIALS | BRAND | DESIGNATION | BATCH NO. |
| 1. PRE-CLEANER | Magnaflux | SKC-NF/2C7B | 82D119 |
| 2. PENETRANT | | 24 8 ZL-22A | 83F003 |
| 3. EMULSIFIER AND/OR REMOVER | | SKC-NF/2C-7B | 82D119 |
| 4. DEVELOPER | | SKD-NF | 82D111 |
| 5. POST EXAMINATION CLEANER | | SKC-NF/2C7B | 82D119 |

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY: Attached

L.P. exam as follow up to M.T. per 7.1-2.

Cyl.#7

| | |
|---------------|--|
| C. EVALUATION | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE. |
|---------------|--|

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|-----------------------------------|---------------|--------------------------------|--|
| 1 <u>See sketch</u> <u>N/A</u> | <u>None</u> | <u>N/A</u> | <u>Accept (No relevant inds)</u> |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| | | <u>Carl Howell</u> | <u>II</u> <u>9/9/83</u> |
| | | <u>Lilco N.D.E. 6.3-4.2.2.</u> | |

| | | | |
|------|--------------------|-----------|---------------|
| TEST | <u>Carl Howell</u> | <u>II</u> | <u>9/9/83</u> |
|------|--------------------|-----------|---------------|

COMPONENT I.D. 1R43
New crankshaft sk 693M
Cyl. Comp Rad Pin

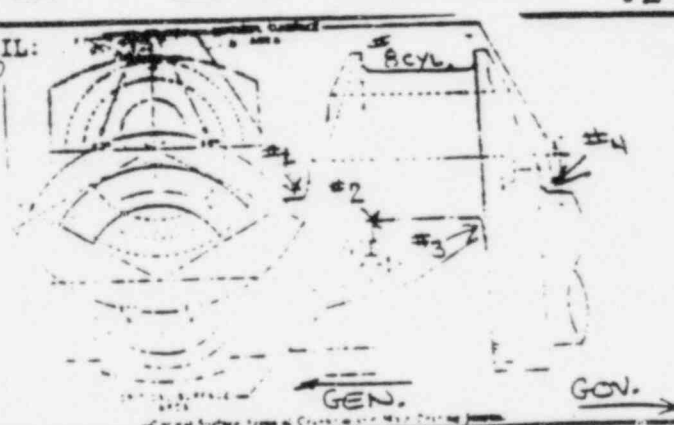
SYSTEM 1R43
Emerg. Dies. Gen

PLANT/LOCATION
Turbine Deck East Side #1.63

C-32-23



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | |
|---|--|---|---|--|--|
| A. MATERIAL | | TYPE <u>C/S</u> | FABRICATED PROCESS | FORGING <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> WORKED | |
| | | GEOMETRY | <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD <input checked="" type="checkbox"/> OTHER: <u>CRANK SHAFT</u> | | |
| CROSS SECTION THICKNESS | MAX <u> </u> INCH | MIN <u> </u> INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHISED <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER | |
| B. NDE PROCEDURE AC. <u>7.1-2</u> | | - <u>PO #310552-26</u> | | EQUIPMENT I.D. <u>S/N Y6-C</u> DATE NO. <u>N/A</u> | |
| TECHNIQUE | <input type="checkbox"/> PRODS <input checked="" type="checkbox"/> YOKE <input type="checkbox"/> COIL <input type="checkbox"/> OTHER | | | | |
| CURRENT | <input checked="" type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> HW/DC | | | | |
| MATERIALS | | <input type="checkbox"/> DRY <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>MAGNABLO 14A</u> <u>BATCH #83C036</u> <u>-27 ML</u> | | |
| SKETCH OR OTHER DETAIL: SEE THE ATTACHED SKETCH  | | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | | |
| #1 | NONE | N/A | NO RELEVANT INDICATIONS | | |
| #2 | 1"-5" LG. | BROAD/FUZZY LINEAR INDICATIONS | INDICATIONS TO BE L.I. INSPECTED PER 7.1-2, SEE ATTACHED L.I. REPORT | | |
| #3 | NONE | N/A | NO RELEVANT INDICATIONS | | |
| #4 | NONE | N/A | NO RELEVANT INDICATIONS | | |
| REFERENCE | | N/A 7.1-2 | <u>PENNIS PIETROWSKI</u> <u>II</u> <u>9/10/83</u> | | |
| ATTEST | | <u>[Signature]</u> RYNDOWICZ CERTIFIED PERSONNEL | | <u>II</u> <u>9/10/83</u> DATE | |

 COMPONENT I.D. S/N Y6-C
 8 CYL. CRANKSHAFT JOURNAL
 SYSTEM
 1843K

S/N 14/TORRIDE DECK 6.3' EV.



LIQUID PENETRANT EXAMINATION REPORT

| | | | |
|-------------------------------|-----------------------------|---|--|
| A. MATERIAL | TYPE <u>CARBON STEEL</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> AGED WORKED |
| | GEOMETRY | <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD <input checked="" type="checkbox"/> OTHER <u>CRANKSHAFT</u> | |
| CROSS SECTION THICKNESS | MAX <u>N/A</u> INCH | MIN <u>N/A</u> INCH | SURFACE CONDITION <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER |

| | | | |
|--|-------------------------------------|---|----------------------|
| 4. HSE PROCEDED NO. <u>63/7.1-2</u> | TEMP. / MATH'L. TEMP <u>80°F</u> | M&TF. NO. <u>366</u> DUE <u>10-22-03</u> | NO. <u>310552-26</u> |
|--|-------------------------------------|---|----------------------|

| INSPECTION MATERIALS | BRAND | DESIGNATION | BATCH NO. |
|---------------------------------|-----------|--------------|-----------|
| 1. PRE-CLEANER | MAGNAFLUX | SKC-NF/EC-7B | 82D119 |
| 2. PENETRANT | MAGNAFLUX | EL-224 | 83F003 |
| 3. EMULSIFIER AND/OR REMOVER | MAGNAFLUX | SKC-NF/EC-7B | 82D119 |
| 4. DEVELOPER | MAGNAFLUX | SKD-NF | 82D111 |
| 5. POST EXAMINATION CLEANER | MAGNAFLUX | SKC-NF/EC-7B | 82D119 |

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY
CRANKSHAFT JOURNAL OF CYL # 8
LP INSPECTION AS FOLLOW UP TO METHOD MT
SEE ATTACHED SKETCH.

ASSISTED BY JOHN PINK 9-10-03

| | |
|---------------|--|
| C. EVALUATION | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE. |
|---------------|--|

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|---------------------|------------------|--|--|
| #1 N/A | N/A | N/A | |
| #2 #2 | NONE | N/A | NO RELEVANT INDICATIONS |
| #3 N/A | N/A | N/A | |
| #4 N/A | N/A | N/A | |
| DATE <u>9-10-03</u> | | <u>DENNIS PIETROWSKI</u> <u>II</u> <u>9-10-03</u> | |

| | | |
|-----------|--------------------|--------------------------|
| E. ATTEST | <u>[Signature]</u> | <u>II</u> <u>9/10/03</u> |
|-----------|--------------------|--------------------------|

COMPONENT I.D.
NEW CRANKSHAFT
S/N # 693M

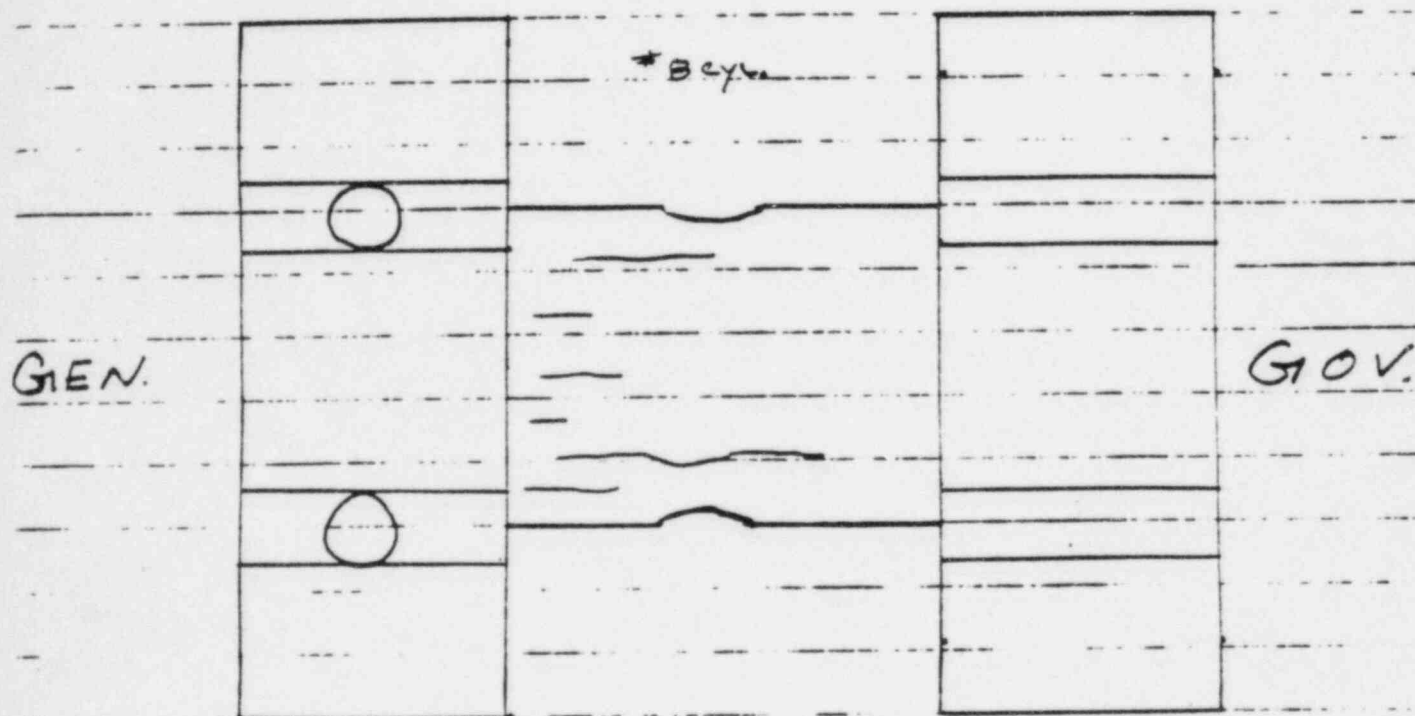
SYSTEM
IR-43*

PLANT/LOCATION
SNPS-1 / TURBINE DR

CRANKSHAFT JOURNAL C/L #8

TOP VIEW

LOOKING DOWN



MI

BROAD FUZZY LINES

1- SURFACE SCRATCH

NEW CRANKSHAFT S/N #693M



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | | |
|------------------------|--------------|-------------------------------|--------------------------------|---|--|--|
| A. MATERIAL | TYPE | C/S | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | FORGING <input checked="" type="checkbox"/> WORKED |
| | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: CRANK SHAFT | |
| EDGE SECTION THICKNESS | MAX 13" HIGH | MIN 12" HIGH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHISED | <input type="checkbox"/> GROUND | <input type="checkbox"/> OTHER |
| | | | | <input checked="" type="checkbox"/> AS FABRICATED | | |

| | | |
|----------------------------|-------------------------|---|
| B. NDE PROCEDURE NO. 7.1-2 | MMA/RR NO. P8 310552-26 | EQUIPMENT I.D. S/H 681032 MATE NO. N/A |
|----------------------------|-------------------------|---|

| | | | | |
|--------------|--------------------------------|-------------------------------|---|--|
| TECHNIQUE | <input type="checkbox"/> PHASE | <input type="checkbox"/> LINE | <input checked="" type="checkbox"/> COIL | <input type="checkbox"/> OTHER |
| CURRENT | <input type="checkbox"/> AC | <input type="checkbox"/> DC | <input checked="" type="checkbox"/> HW/DC | <input type="checkbox"/> 10 LB. PLATE <input type="checkbox"/> 40 LB. ... |
| 1000/5 TURNS | | SPACING | N/A | |
| N/A | | VOKE | N/A | |
| N/A | | PRODS | N/A | |

| | | | | |
|-----------|------------------------------|---|-------------------|--|
| MATERIALS | <input type="checkbox"/> DRY | <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION | MAGNAGLO 14A BATCH # 83C036 -27 MC |
|-----------|------------------------------|---|-------------------|--|

SKETCH OR OTHER DETAIL:

M.T. INSPECTION PER NDE 7.1-2 OF THE FOLLOWING CYLINDERS WERE FOUND SAT. (COIL METHOD)

- #1 CYL. SAT.
- #3 CYL. SAT.
- #4 CYL. SAT.
- #5 CYL. SAT.
- #6 CYL. SAT.
- #8 CYL. SAT.

ASSISTED BY J.P. MC 12/9/83

C. EVALUATION

REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|----------|---------------|-------------|--|
| #1 | NONE | N/A | ACCEPT NO RELEVANT INDICATIONS |
| #2 | " | " | " " " |
| #3 | " | " | " " " |
| #4 | " | " | " " " |

| | | | |
|----------------|-----------|-------------------|--------|
| D. APPROVED BY | NDE 7.1-2 | PENNIS PIETROWSKI | 9/9/83 |
|----------------|-----------|-------------------|--------|

| | | | |
|-----------|---------------|----|--------|
| E. REVIEW | T. Pietrowski | 11 | 9/9/83 |
|-----------|---------------|----|--------|

COMPONENT I.D. S/H 681032
NEW CRANK SHAFT
CYLINDERS #1, 3, 4, 5, 6 AND 8
SYSTEM
1R43*

SAF-1/TURBINE
RECK 63' ELY.

| | | | NEW CRANK SHAFT S/N 694 PO# 310552-27 | | | |
|--------|---------|-----------------|--|---|---|---|
| Cyl # | Order # | Location | NDE Method + Initials | | | |
| Cyl #1 | 1 | main Gen Journ. | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP NA |
| | 2 | C.R. Journ. | <input checked="" type="checkbox"/> Yoke VP | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP NA |
| | 3 | C.R. Journ | <input checked="" type="checkbox"/> Yoke VP | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP NA |
| | 4 | main Gov Journ | <input checked="" type="checkbox"/> Yoke E.H. | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP NA |
| Cyl #2 | 1 | main Gen Journ | <input checked="" type="checkbox"/> Yoke VP | <input checked="" type="checkbox"/> Coil VP | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP NA |
| | 2 | C.R. Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil VP | <input checked="" type="checkbox"/> UT RM | <input checked="" type="checkbox"/> LP RB |
| | 3 | C.R. Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil VP | <input checked="" type="checkbox"/> UT RM | <input checked="" type="checkbox"/> LP RB |
| | 4 | main Gov Journ | <input checked="" type="checkbox"/> Yoke VP | <input checked="" type="checkbox"/> Coil VP | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP NA |
| Cyl #3 | 1 | main Gen Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP NA |
| | 2 | C.R. Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input checked="" type="checkbox"/> LP RB |
| | 3 | C.R. Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input checked="" type="checkbox"/> LP RB |
| | 4 | main Gov Journ | <input checked="" type="checkbox"/> Yoke VP | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP NA |
| Cyl #4 | 1 | main Gen Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP NA |
| | 2 | C.R. Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input checked="" type="checkbox"/> LP RB |
| | 3 | C.R. Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input checked="" type="checkbox"/> LP RB |
| | 4 | main Gov Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP NA |
| Cyl #5 | 1 | main Gen Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP NA |
| | 2 | C.R. Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input checked="" type="checkbox"/> LP RB |
| | 3 | C.R. Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input checked="" type="checkbox"/> LP RB |
| | 4 | main Gov Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP NA |
| Cyl #6 | 1 | main Gen Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP NA |
| | 2 | C.R. Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input checked="" type="checkbox"/> LP RB |
| | 3 | C.R. Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input checked="" type="checkbox"/> LP RB |
| | 4 | main Gov Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP NA |
| | | | <input checked="" type="checkbox"/> No Indications | | | |

NEW CRANKSHAFT

S/N 694

PO #310552-27

| Cyl # | A r r a n g e m e n t # | Location | N D E Method + Initials | | | |
|--------|--|-------------------|---|---|---|---|
| Cyl #7 | 1 | main Gen Journ | <input checked="" type="checkbox"/> Yoke VP | <input checked="" type="checkbox"/> Coil VP | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP N/A |
| | 2 | C.R. Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil VP | <input checked="" type="checkbox"/> UT RM | <input checked="" type="checkbox"/> LP RB |
| | 3 | C.R. Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil VP | <input checked="" type="checkbox"/> UT RM | <input checked="" type="checkbox"/> LP RB |
| | 4 | main Gen Journ | <input checked="" type="checkbox"/> Yoke VP | <input checked="" type="checkbox"/> Coil VP | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP N/A |
| Cyl #8 | 1 | main Gen Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP N/A |
| | 2 | C.R. Journ | <input checked="" type="checkbox"/> Yoke VP | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP N/A |
| | 3 | C.R. Journ | <input checked="" type="checkbox"/> Yoke VP | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input type="checkbox"/> LP N/A |
| | 4 | main Gen Journ | <input checked="" type="checkbox"/> Yoke EH | <input checked="" type="checkbox"/> Coil AP | <input checked="" type="checkbox"/> UT RM | <input checked="" type="checkbox"/> LP RB |



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | |
|---|--|--|---|--|
| A. MATERIAL | | TYPE <u>C/S</u> | FABRICATED PROCESS <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> <u>FORGED</u> | |
| | | GEOMETRY <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD <input checked="" type="checkbox"/> OTHER: <u>CRANK SHAFT</u> | | |
| CROSS SECTION THICKNESS | MAX <u>13" INCH</u> | MIN <u>12" INCH</u> | SURFACE CONDITION <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER | |
| B. NDE PROCEDURE NO. <u>71-2</u> | | MWR/RR NO. <u>PO# 310552-26</u> | EQUIPMENT I.D. S N <u>YG-C</u> DATE NO. <u>N/A</u> | |
| TECHNIQUE | <input type="checkbox"/> PRODS <input checked="" type="checkbox"/> YOKE <input type="checkbox"/> COIL <input type="checkbox"/> OTHER | | | |
| CURRENT | <input checked="" type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> HW/DC | <input checked="" type="checkbox"/> 10 lb PLATE <input type="checkbox"/> 40 lb PLATE | | |
| AMPS <u>N/A</u> AMPS PER IN. <u>N/A</u> | | PROD SPACING YOKE <u>12" max</u> PRODS <u>N/A</u> | | |
| MATERIALS | <input type="checkbox"/> DRY <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>Magnaglo 14A</u> <u>26 mil Batch #835036</u> | | |
| SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY | | | | |
| <p>Gen Gov</p> <p>Cyl #1 Gov. + Gen end main journals only. (critical areas)</p> <p>Assisted by J. Pink 9-12-83</p> | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | |
| ① <u>N/A</u> | <u>None</u> | <u>N/A</u> | <u>No relevant indications</u> | |
| ② <u>N/A</u> | <u>N/A</u> | <u>N/A</u> | <u>N/A</u> | |
| ③ <u>N/A</u> | <u>N/A</u> | <u>N/A</u> | <u>N/A</u> | |
| ④ <u>1A</u> | <u>None</u> | <u>N/A</u> | <u>No relevant indications</u> | |
| I | PHASED | OPERATOR <u>Carl Hassell</u> | | |
| | TRIA | LEVEL <u>II</u> DATE <u>9/13/83</u> | | |
| | | NDE 71-2 | | |
| L | ST | RESP <u>Carl Hassell</u> LEVEL <u>II</u> DATE <u>9/13/83</u> | | |

COMPONENT I.D. New Crankshaft
S/N 094
Cyl #1
STPM 1R43
Sizing Dies Gen

PLANT/LOCATION
Turbine Deck E1.63

MAGNETIC PARTICLE EXAMINATION REPORT

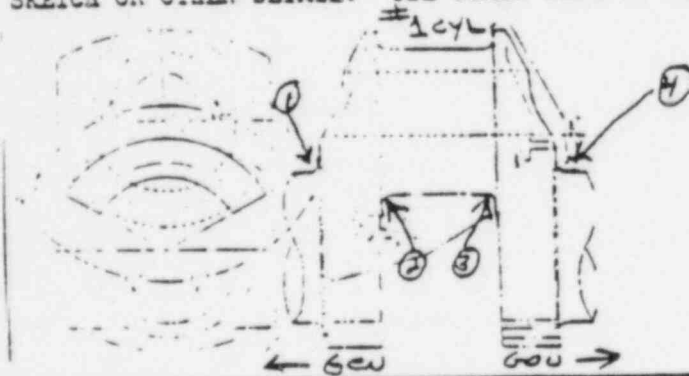
| | | | | | | | |
|-------------------------------|--|-----------------------------|-------------------|-----------------------|--|--|--|
| A. MATERIAL | | TYPE <u>Carbon Steel</u> | | FABRICATED PROCESS | | <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> <u>Forged</u> WORKED | |
| CROSS SECTION THICKNESS | | MAX <u>1/3</u> | MIN <u>1/2</u> | SURFACE CONDITION | | <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER | |
| | | INCH | | INCH | | | |

| | | |
|--------------------------------------|-----------------------------------|--|
| B. NDE PROCEDURE NO. <u>7.1-2</u> | MWR/RR NO. <u>90-310552-27</u> | EQUIPMENT I.D. S.N. <u>Y6-C</u> DATE NO. <u>N/A</u> |
|--------------------------------------|-----------------------------------|--|

| | | | | |
|-------------------------|--|--|--------------------------------|---|
| TECHNIQUE | <input type="checkbox"/> PRODS | <input checked="" type="checkbox"/> YOKE | <input type="checkbox"/> COIL | <input type="checkbox"/> OTHER |
| CURRENT | <input checked="" type="checkbox"/> AC | <input type="checkbox"/> DC | <input type="checkbox"/> HW/DC | <input checked="" type="checkbox"/> 10 lb PLATE <input type="checkbox"/> 40 lb PLATE |
| AMPS <u>N/A</u> | | PROD SPACING | | |
| AMPS PER IN. <u>N/A</u> | | YOKE <u>6"</u> PRODS <u>N/A</u> | | |

| | | | |
|-----------|------------------------------|---|--|
| MATERIALS | <input type="checkbox"/> DRY | <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>MAGNAGLO 14A</u> <u>Bark # DC036.27 ML</u> |
|-----------|------------------------------|---|--|

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY



| | |
|---------------|---|
| C. EVALUATION | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE |
|---------------|---|

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|----------|---------------|-------------|--|
| 1 N/A | N/A | N/A | N/A |
| ② | NONE | N/A | NO Relevant Indications |
| ③ | NONE | N/A | " " " |
| 4 N/A | N/A | N/A | N/A |

| | | |
|-------------------------|------------------|--|
| D. ADEQUACY CRITERIA | <u>N/A 7.1-2</u> | OPERATOR <u>Victor PLATANIA</u> LEVEL <u>II</u> DATE <u>7/13/83</u> |
|-------------------------|------------------|--|

| | | | |
|-----------|------------------------|-----------|----------------|
| E. ATTEST | <u>Victor Platania</u> | <u>II</u> | <u>7/13/83</u> |
| RESP | FILE CERTIFIED | LEVEL | DATE |

CYL #1 New Crankshaft # 694 1843 Emergency Diesel Gen

Turbine Bldg. EL. 63 EAST



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | | |
|--------------------------------|----------------|--------------------------------|---|---|---------------------------------|--|
| A. MATERIAL | | TYPE <u>C/S</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> WORKED |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: <u>Crankshaft</u> |
| CROSS SECTION THICKNESS | MAX <u>13"</u> | MIS <u>12"</u> | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | |
| | INCH | INCH | | <input checked="" type="checkbox"/> AS FABRICATED | <input type="checkbox"/> OTHER | |
| NDE PROCEDURE NO. <u>7-1-2</u> | | MWR/RR NO. <u>PO#310552-27</u> | EQUIPMENT I.D. S N <u>681032</u> DATE NO. <u>N/A</u> | | | |

| | | | | |
|-------------------------|--------------------------------|---|---|--|
| TECHNIQUE | <input type="checkbox"/> PRODS | <input type="checkbox"/> YOKE | <input checked="" type="checkbox"/> COIL | <input type="checkbox"/> OTHER |
| CURRENT | <input type="checkbox"/> AC | <input type="checkbox"/> DC | <input checked="" type="checkbox"/> HW/DC | <input type="checkbox"/> 10 15 PLATE <input type="checkbox"/> 40 15 PLATE |
| AMPS <u>1000 / 5000</u> | | PROD SPACING | | |
| AMPS PER IN. <u>N/A</u> | | YOKE <u>N/A</u> | | PRODS <u>N/A</u> |
| MATERIALS | <input type="checkbox"/> DRY | <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>Magnaglo 17A</u> <u>Batch 83036</u> <u>127</u> | |

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY



MT inspection PER NDE 7-1-2 of the following cylinder were found SAT.

CYLINDER 1

C. EVALUATION

REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|----------|---------------|--------------------|--|
| #1 | NONE | N/A | ACCEPT NO RELEVANT INDICATIONS |
| #2 | NONE | N/A | ACCEPT NO RELEVANT INDICATIONS |
| #3 | NONE | N/A | ACCEPT NO RELEVANT INDICATIONS |
| #4 | NONE | N/A | ACCEPT NO RELEVANT INDICATIONS |
| D | 7-1-2 | | OPERATOR <u>[Signature]</u> LEVEL <u>II</u> DATE <u>9-12-83</u> |
| E | TEST | <u>[Signature]</u> | <u>II</u> <u>9-12-83</u> DATE |

COMPONENT I.D. #1 cyl.

694

SYSTEM

1R43


PLANT/LOCATION

50B32/Turbine Deck 63' Elev

C-32-32



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | |
|---|--|---|---|
| A. MATERIAL | | TYPE <u>C/S</u> | FABRICATED PROCESS <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> WORKED |
| | | GEOMETRY <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD <input checked="" type="checkbox"/> OTHER: <u>Crankshaft</u> | |
| CROSS SECTION THICKNESS | MAX <u>13" INCH</u> | MIN <u>12 INCH</u> | SURFACE CONDITION <input checked="" type="checkbox"/> MACHISED <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER |
| B. NDE PROCEDURE NO. <u>71-2</u> | | MWR/RR NO. <u>POB 310552-27</u> | EQUIPMENT I... S N <u>YG-C</u> DATE NO. <u>N/A</u> |
| TECHNIQUE | <input type="checkbox"/> PRODS <input checked="" type="checkbox"/> YOKE <input type="checkbox"/> COIL <input type="checkbox"/> OTHER | | |
| CURRENT | <input checked="" type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> HW/DC | <input checked="" type="checkbox"/> 10 lb PLATE <input type="checkbox"/> 40 lb PLATE | |
| AMPS <u>N/A</u> AMPS PER IN. <u>N/A</u> | | PROD SPACING YOKE <u>12" Max</u> PRODS <u>N/A</u> | |
| MATERIALS | <input type="checkbox"/> DRY <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>Magnaglo 14A</u> <u>24 mil. Batch #335036</u> | |
| SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY  <p><u>Cyl #2</u> Con. Rod Journal (Critical Areas)</p> <p>Assisted by J. R. N. 9-12-83</p> | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
| 1 | | | |
| ② <u>N/A</u> | <u>None</u> | <u>N/A</u> | <u>No relevant indications</u> |
| ③ <u>N/A</u> | <u>None</u> | <u>N/A</u> | <u>No relevant indications</u> |
| D. / | | OPERATOR <u>Carl H. Hull</u> LEVEL <u>II</u> DATE <u>9/12/83</u> | |
| E. TEST | <u>Carl H. Hull</u> REVISIONS: <u>II</u> DATE <u>9/12/83</u> | | |

 COMPONENT I.D. New Crankshaft
 SYSTEM 1843
 CYL #2
 Emerg. Dies. Gen.

 PLANT/LOCATION
 Turbine Deck E1 C3

MANUFACTURING INSPECTION REPORT

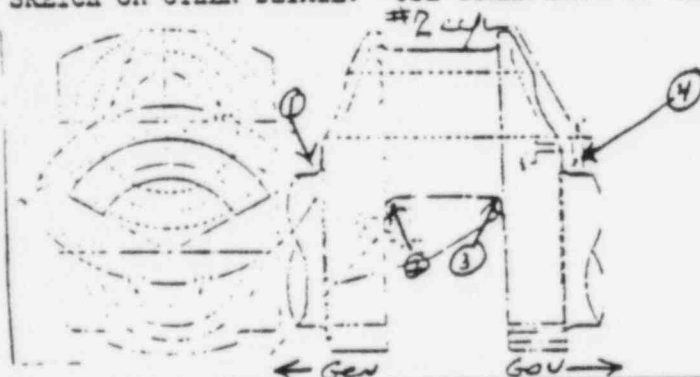
| | | | | |
|-------------------------------|------------------------|-----------------------------|---|--|
| A. MATERIAL | | TYPE <u>Crabon Steel</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> <u>Forged</u> WORKED |
| | | GEOMETRY | <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD <input checked="" type="checkbox"/> OTHER: <u>CRANK SHAFT</u> | |
| CROSS SECTION THICKNESS | MAX <u>1/3</u> INCH | MIN <u>1/2</u> INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER |

| | | |
|--------------------------------------|----------------------------------|---|
| B. WDE PROCEDURE NO. <u>7.1-2</u> | MWR/RR NO. <u>90#30552-27</u> | EQUIPMENT ID: <u>S/N: Y6-C</u> DATE NO. <u>N/A</u> |
|--------------------------------------|----------------------------------|---|

| | |
|--|--|
| TECHNIQUE | <input type="checkbox"/> PRODS <input checked="" type="checkbox"/> YOKE <input type="checkbox"/> COIL <input type="checkbox"/> OTHER |
| CURRENT | <input checked="" type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> EV/DC |
| AMPS <u>N/A</u> PROD SPACING <u>N/A</u> AMPS PER IN. <u>N/A</u> YOKE <u>6"</u> PRODS <u>N/A</u> | |

| | | |
|-----------|--|--|
| MATERIALS | <input type="checkbox"/> DRY <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>EMAGWAG10 14A</u> <u>BATCH #83C036.27ML</u> |
|-----------|--|--|

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY



| | |
|---------------|---|
| C. EVALUATION | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE |
|---------------|---|

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|----------|---------------|-------------|--|
| ① | NONE | N/A | NO Relevant Indications |
| 2 N/A | N/A | N/A | N/A |
| 3 N/A | N/A | N/A | N/A |
| ④ | NONE | N/A | NO Relevant Indications |

| | | |
|------------------------|------------------|--|
| D. ACCEPTANCE CRITERIA | <u>N/A 7.1-2</u> | OPERATOR <u>VICTOR PLATANIA</u> LEVEL <u>II</u> DATE <u>9/13/83</u> |
|------------------------|------------------|--|

| | | | |
|-----------|---|--------------------|------------------------|
| E. ATTEST | <u>Victor Platania</u> RESPONSIBLE CERTIFIED PERSONNEL | <u>II</u> LEVEL | <u>9/13/83</u> DATE |
|-----------|---|--------------------|------------------------|

CYL #2 New Crankshaft #654

41443 Emergency Diesel Governor Tor

Turbine R/D D6 Fl. 63 EAST

MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | | | |
|---|--|---|--|---|--|--|--|
| A. MATERIAL | | TYPE Carbon Steel | | FABRICATED PROCESS | | <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> ^{Forged} WORKED | |
| | | GEOMETRY | | <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: ^{Crank Shaft} | | |
| CROSS SECTION THICKNESS | MAX 1/3 INCH | MIN 1/2 INCH | SURFACE CONDITION | | <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER | | |
| B. NDE PROCEDURE NO. 7.1-2 | | MATERIAL NO. 10#30552-27 | | EQUIPMENT I.D. S/N 681032 DATE NO. N/A | | | |
| TECHNIQUE | <input type="checkbox"/> PRODS <input type="checkbox"/> YOKE <input checked="" type="checkbox"/> COIL <input type="checkbox"/> OTHER | | | | | | |
| CURRENT | <input type="checkbox"/> AC <input type="checkbox"/> DC <input checked="" type="checkbox"/> HW/DC | | <input type="checkbox"/> 10 LB PLATE <input type="checkbox"/> 40 LB PLATE | | | | |
| | | AMPS 5 Turns / 900 AMPS PER IN. N/A | | PROD SPACING YOKE N/A PRODS N/A | | | |
| MATERIALS | <input type="checkbox"/> DRY <input checked="" type="checkbox"/> WET | | BRAND/DESIGNATION MAGNAGLO 14A Batch # 83C036.27HL | | | | |
| SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY | | | | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | | | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | | | | |
| ① | NONE | N/A | NO Relevant Indications | | | | |
| ② | NONE | N/A | NO Relevant Indications | | | | |
| ③ | NONE | N/A | NO Relevant Indications | | | | |
| ④ | NONE | N/A | NO Relevant Indications | | | | |
| F. ACCEPTANCE CRITERIA | | N/A 7.1-2 | | OPERATOR Victor Platania LEVEL II DATE 7/13/83 | | | |
| ATTEST | | | | II 7/13/83 LEVEL DATE | | | |

#2 CYL. New Crankshaft #694

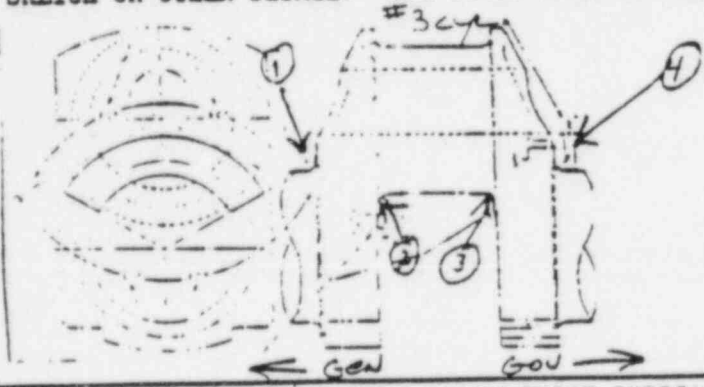
1843 EDG

Turbine Bldg. EL 63 EAST



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | |
|--|---------------------------|---|---|--|
| A. MATERIAL | | TYPE <u>C/S</u> | FABRICATED PROCESS <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> <u>FORGED</u> | E. COMPONENT I.D. <u>New Crankshaft</u> S/N <u>644</u> CY # <u>3</u> SYSTEM <u>IR43</u> Emerg. Dies Gen Turbine Deck EIC3 |
| CROSS SECTION THICKNESS | | GEOMETRY <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD <input checked="" type="checkbox"/> OTHER: <u>Crank</u> | | |
| MAX | MIN | SURFACE CONDITION <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER | | |
| 13" INCH | 12 INCH | | | |
| NDE PROCEDURE NO. <u>71-2</u> | | MWR/RR NO. <u>PO# 310552-27</u> | EQUIPMENT I.D. <u>SN YG-C</u> DATE NO. <u>N/A</u> | |
| TECHNIQUE | | <input type="checkbox"/> PRODS <input checked="" type="checkbox"/> YOKE <input type="checkbox"/> COIL <input type="checkbox"/> OTHER | | |
| CURRENT | | <input checked="" type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> HW/DC | <input checked="" type="checkbox"/> 10 lb PLATE <input type="checkbox"/> 40 lb PLATE | |
| AMPS <u>N/A</u> AMPS PER IN. <u>N/A</u> | | PROD SPACING YOKE <u>12" max</u> PRODS <u>N/A</u> | | |
| MATERIALS | | <input type="checkbox"/> DRY <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>Magnab 14A</u> <u>26 mil. Batch 1000</u> | |
| SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY <u>Cyl #3 Con Rod + main Journals (critical areas)</u> | | | | |
| | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | |
| ① | <u>None</u> <u>N/A</u> | <u>N/A</u> | <u>No relevant indications</u> | |
| ② | } <u>3/4 to 3"</u> | <u>Linear</u> | <u>Follow up LP required</u> | |
| ③ | | <u>Indications</u> | <u>" " "</u> | |
| ④ | <u>E.H.</u> | <u>None</u> | <u>N/A</u> <u>No relevant indications</u> | |
| D. ACCEPTANCE CRITERIA | | <u>71-2</u> | OPERATOR <u>Carl Hassell</u> LEVEL <u>II</u> DATE <u>9/12/83</u> | |
| ATTEST | | <u>Carl Hassell</u> | <u>II</u> | <u>9/12/83</u> |
| | | SIGNATURE | LEVEL | DATE |

| | | | | | | | |
|---|--|--|--|---|--|--|--|
| A. MATERIAL | | TYPE <u>Crabon Steel</u> | | FABRICATED PROCESS | | <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> <u>Forged</u> WORKED | |
| | | GEOMETRY | | <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD <input checked="" type="checkbox"/> OTHER: <u>CRANK SHAFT</u> | | | |
| CROSS SECTION THICKNESS | MAX <u>1/3</u> INCH | MIN <u>1/2</u> INCH | SURFACE CONDITION | | <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER | | |
| B. WDE PROCEDURE NO. <u>7.1-2</u> | | MWR/RR NO. <u>90-310552-Z7</u> | | EQUIPMENT I.D.S.N. <u>Y6-C</u> DATE NO. <u>N/A</u> | | | |
| TECHNIQUE | <input type="checkbox"/> PRODS <input checked="" type="checkbox"/> YOKE <input type="checkbox"/> COIL <input type="checkbox"/> OTHER | | | | | | |
| CURRENT | <input checked="" type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> KW/DC | | <input checked="" type="checkbox"/> 10 lb PLATE <input type="checkbox"/> 40 lb PLATE AMPS <u>N/A</u> PROD SPACING <u>6"</u> PRODS <u>N/A</u> AMPS PER IN. <u>N/A</u> | | | | |
| MATERIALS | <input type="checkbox"/> DRY <input checked="" type="checkbox"/> WET | | BRAND/DESIGNATION <u>MAGWAG 14A</u> <u>BATCH # 83C03C.2794</u> | | | | |
| SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY  | | | | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED, AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | | | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | | | | |
| 1 <u>N/A</u> | <u>N/A</u> | <u>N/A</u> | <u>N/A</u> | | | | |
| 2 <u>↓</u> | <u>↓</u> | <u>↓</u> | <u>N/A</u> | | | | |
| 3 <u>↓</u> | <u>↓</u> | <u>↓</u> | <u>N/A</u> | | | | |
| ④ | <u>NONE</u> | <u>↓</u> | <u>NO Relevant Indications Noted</u> | | | | |
| D. ACCEPTANCE CRITERIA | <u>N/A 7.1-2</u> | | OPERATOR <u>Victor Platanin</u> LEVEL <u>II</u> DATE <u>9/13/83</u> | | | | |
| E. ATTEST | <u>[Signature]</u> RESPONSIBLE CERTIFIED PERSONNEL | | <u>II</u> LEVEL | | <u>9/13/83</u> DATE | | |

Cyl. #3 New Crankshaft #654

#1493 Emergency Diesel Generator

Turbine #116 #1 63 EAST

| | | | | | | | |
|-----------------------------------|---|--|---|---|--|---|---|
| A. MATERIAL | | TYPE <u>Carbon Steel</u> | | FABRICATED PROCESS | | <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> Forged WORKED | |
| | | GEOMETRY | | <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD <input checked="" type="checkbox"/> OTHER: <u>CRANK SHAFT</u> | | | |
| CROSS SECTION THICKNESS | MAX | MIN | SURFACE CONDITION | | <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> AS FABRICATED | | |
| | <u>13</u> INCH | <u>12</u> INCH | | | | | |
| B. NDE PROCEDURE NO. <u>7.1-2</u> | | MWR/RR NO. <u>90-310552-27</u> | | EQUIPMENT <u>EDS/N Y6-C</u> DATE NO. <u>N/A</u> | | | |
| TECHNIQUE | <input type="checkbox"/> PRODS | | <input checked="" type="checkbox"/> YOKE | | <input type="checkbox"/> COIL | | <input type="checkbox"/> OTHER |
| | <input checked="" type="checkbox"/> AC | | <input type="checkbox"/> DC | | <input type="checkbox"/> HW/DC | | <input checked="" type="checkbox"/> 10 lb. PLATE <input type="checkbox"/> 40 lb. PLATE |
| CURRENT | AMPS <u>N/A</u> | | PROD SPACING | | PRODS <u>N/A</u> | | |
| | AMPS PER IN. <u>N/A</u> | | YOKE <u>6"</u> | | | | |
| MATERIALS | <input type="checkbox"/> DRY | | <input checked="" type="checkbox"/> WET | | BRAND/DESIGNATION <u>FRAGWAG 14A</u> BATCH <u>87C036.27 mil</u> | | |
| | SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY | | | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED, AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | | | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | | | | |
| ① | <u>NONE</u> | <u>N/A</u> | <u>NO Relevant Indications found</u> | | | | |
| 2- <u>N/A</u> | <u>N/A</u> | <u>"</u> | <u>N/A</u> | | | | |
| 3 <u>N/A</u> | <u>"</u> | <u>"</u> | <u>N/A</u> | | | | |
| ④ | <u>NONE</u> | <u>"</u> | <u>NO Relevant Indications Noted</u> | | | | |
| D. ACCEPTANCE CRITERIA | <u>NDE 7.1-2</u> | | OPERATOR <u>VICTOR PLATANIA</u> LEVEL <u>4</u> DATE <u>9/13/83</u> | | | | |
| ATTEST | <u>Victor Platania</u> | | RESPONSIBLE CERTIFIED PERSONNEL | | LEVEL <u>II</u> | | DATE <u>9/13/83</u> |

1 CYL #7 New Crankshaft #6941 1943 EDG

Turbine RIDG. E. 43 EAST



LIQUID PENETRANT EXAMINATION REPORT

| | | | | | | |
|---|--------------------|--|---|--|---------------------------------|--|
| A. MATERIAL | | TYPE CARBON STEEL | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> FORGED WORKED |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: CRANK SHAFT |
| CROSS SECTION THICKNESS | MAX N/A INCH | MIN N/A INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | <input type="checkbox"/> OTHER |
| 6.3 | | TEMP 72°F | 366 | 10-22-83 | PO# 30552-27 | |
| INSPECTION MATERIALS | | BRAND | DESIGNATION | | BATCH NO. | |
| 1. PRE-CLEANER | | MAGNAFLUX | SKC-NF/ZC-7B | | 82D119 | |
| 2. PENETRANT | | | ZL-22A | | 83F003 | |
| 3. EMULSIFIER AND/OR REMOVER | | | SKC-NF/ZC-7B | | 82D119 | |
| 4. DEVELOPER | | | SKD-NF | | 83C042 | |
| 5. POST EXAMINATION CLEANER | | | SKC-NF/ZC-7B | | 82D119 | |
| SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY = ATTACHED L.P. EXAM AS FOLLOW UP TO M.T. PER 7.1-2. CYL#3 CONNECTING ROD JOURNAL | | | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE. | | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | | | |
| 1 SEE SKETCH | NONE | N/A | ACCEPT (NO RELEVANT INDS.) | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| | | Lilco NDE 6.3-4 2.2 | | Rodney J Barnes II 9/12/83 | | |
| E. ATTEST | | Rodney J Barnes | | II 9/12/83 | | |

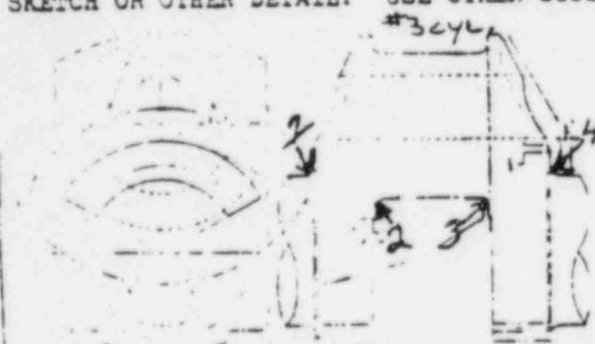
 COMPONENT I.D. 1R43 " 3 CYL.
 NEW CRANKSHAFT SN 694

 SYSTEM
 EMERG. Dies. GEN

TURBINE DECK ENST SIDE EL. 6



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | | | |
|---|--------------------------------|---|--|--|---|--|--|
| A. MATERIAL | | TYPE <u>4/5</u> | FABRICATED PROCESS | | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> <u>Forging</u> |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input type="checkbox"/> OTHER: <u>CRANK SHAFT</u> | |
| CROSS SECTION THICKNESS | MAX <u>13"</u> | MIN <u>12"</u> | SURFACE CONDITION | | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | |
| | INCH | INCH | | | <input checked="" type="checkbox"/> AS FABRICATED | <input type="checkbox"/> OTHER | |
| NDE PROCEDURE NO. <u>71-2</u> | | MATERIAL NO. <u>310552-27</u> | | EQUIPMENT <u>S N 681032</u> | | DATE NO. <u>N/A</u> | |
| TECHNIQUE | <input type="checkbox"/> PRODS | <input type="checkbox"/> YOKE | <input checked="" type="checkbox"/> COIL | <input type="checkbox"/> OTHER | | | |
| CURRENT | <input type="checkbox"/> AC | <input type="checkbox"/> DC | <input checked="" type="checkbox"/> HW/DC | <input type="checkbox"/> 10 15 PLATE <input type="checkbox"/> 40 15 PLATE | | | |
| AMPS <u>1000/5 TURNS</u> | | PROD SPACING | | YOKE <u>N/A</u> PRODS <u>N/A</u> | | | |
| AMPS PER IN. | | | | | | | |
| MATERIALS | <input type="checkbox"/> DRY | <input checked="" type="checkbox"/> WET | MAGNAGLO 14A BRAND/DESIGNATION BATCH 83C036 .27 mil. | | | | |
| SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY  <p><u>MT INSPECTION PER NDE 71-2</u> <u>OF FOLLOWING CYLINDER WERE</u> <u>FOUND SAT.</u> <u>CYLINDER #3</u></p> | | | | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | | | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | | | | |
| #1 | NONE | N/A | ACCEPT NO RELEVANT INDICATIONS | | | | |
| #2 | NONE | N/A | ACCEPT NO RELEVANT INDICATIONS | | | | |
| #3 | NONE | N/A | ACCEPT NO RELEVANT INDICATIONS | | | | |
| #4 | NONE | N/A | ACCEPT NO RELEVANT INDICATIONS | | | | |
| OPERATOR | | DATE | | SIGNATURE | | | |
| 71-2 | | 9-12-83 | | [Signature] | | | |
| TEST | | DATE | | LEVEL | | | |
| [Signature] | | 9-12-83 | | II | | | |

NEW CRANK SHAFT

694

1843

COMPONENT I.D. #3 CYL.

SYSTEM

PLANT/LOCATION

SNR 2 / TURBINE DECK 63 ELEV



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | | |
|-------------------------|--------------------|--------------------|-------------------------------|---|---------------------------------|---|
| A. MATERIAL | | TYPE <u>C/S</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> FORGED WORKED |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: <u>Crank Shaft</u> |
| CROSS SECTION THICKNESS | MAX <u>13</u> INCH | MIN <u>12</u> INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | |
| | | | | <input checked="" type="checkbox"/> AS FABRICATED | <input type="checkbox"/> OTHER | |

| | | |
|-----------------------------------|--------------------------------|--|
| 1. NDE PROCEDURE NO. <u>7.1-2</u> | RAW/RP NO. <u>POB 30552-27</u> | EQUIPMENT I.D. 3 N <u>Y-6-6</u> DATE NO. <u>N/A</u> |
|-----------------------------------|--------------------------------|--|

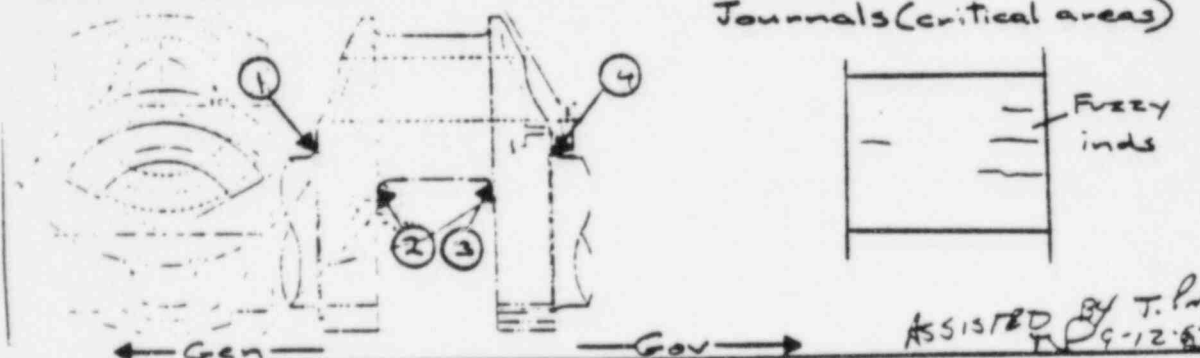
| | | | | |
|-----------|--------------------------------|--|-------------------------------|--------------------------------|
| TECHNIQUE | <input type="checkbox"/> PRODS | <input checked="" type="checkbox"/> YOKE | <input type="checkbox"/> COIL | <input type="checkbox"/> OTHER |
|-----------|--------------------------------|--|-------------------------------|--------------------------------|

| | | | | | |
|---------|--|-----------------------------|--------------------------------|---|--------------------------------------|
| CURRENT | <input checked="" type="checkbox"/> AC | <input type="checkbox"/> DC | <input type="checkbox"/> HW/DC | <input checked="" type="checkbox"/> 10 lb PLATE | <input type="checkbox"/> 40 lb PLATE |
|---------|--|-----------------------------|--------------------------------|---|--------------------------------------|

| | |
|-------------------------|--------------------------------------|
| AMPS <u>N/A</u> | PROD SPACING |
| AMPS PER IN. <u>N/A</u> | YOKE <u>12" max</u> PRODS <u>N/A</u> |

| | | | |
|-----------|------------------------------|---|--|
| MATERIALS | <input type="checkbox"/> DRY | <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>Magnaglo 14A</u> <u>26 mi. Batch #53C036</u> |
|-----------|------------------------------|---|--|

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY Cyl 184 Con Rod + Main Journals (critical areas)



ASSISTED BY T. Park
9-12-83

| | |
|---------------|---|
| C. EVALUATION | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE |
|---------------|---|

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|----------|---------------|--------------------|--|
| ① | None | N/A | No relevant indications |
| ② | 1/2 to 3" | Linear Indications | Follow-up LP required |
| ③ | | " | " |
| ④ | None | N/A | No relevant indications |

| | | | | | |
|------|----------|------------------|------------------------------|-----------------|---------------------|
| D. / | STANDARD | <u>N/E 7.1-2</u> | OPERATOR <u>Carl Hassell</u> | LEVEL <u>II</u> | DATE <u>9/12/83</u> |
|------|----------|------------------|------------------------------|-----------------|---------------------|

| | | | |
|-------|---------------------|-----------|----------------|
| E. ST | <u>Carl Hassell</u> | <u>II</u> | <u>9/12/83</u> |
|-------|---------------------|-----------|----------------|

5. COMPONENT I.D. New Crankshaft
S/N 694
Cyl # 4
SISTEM 1843
Eng. Dies Gen
Turbine Deck E153
PLAT. ACTION



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | | |
|-------------------------------|----------------|----------------------------------|---|---|---------------------------------|---|
| A. MATERIAL | | TYPE <u>C/S</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> <u>Forging</u> WORKED |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: <u>CRANK SHAFT</u> |
| CROSS SECTION THICKNESS | MAX <u>13"</u> | MIN <u>12"</u> | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | |
| | INCH | INCH | | <input checked="" type="checkbox"/> AS FABRICATED | <input type="checkbox"/> OTHER | |
| NDE PROCEDURE NO. <u>71-2</u> | | MATERIAL NO. <u>62-310552-27</u> | EQUIPMENT <u>IN 681032</u> DATE <u>N/A</u> | | | |

| | | | | |
|----------------------------|--------------------------------|---|--|--|
| TECHNIQUE | <input type="checkbox"/> PRODS | <input type="checkbox"/> YOKE | <input checked="" type="checkbox"/> COIL | <input type="checkbox"/> OTHER |
| CURRENT | <input type="checkbox"/> AC | <input type="checkbox"/> DC | <input checked="" type="checkbox"/> HW/DC | <input type="checkbox"/> 10 15 PLATE <input type="checkbox"/> 40 15 PLATE |
| AMPS <u>1000 / 5 turns</u> | | PROD SPACING | | |
| AMPS PER IN. | | YOKE <u>N/A</u> | PROD <u>N/A</u> | |
| MATERIALS | <input type="checkbox"/> DRY | <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>MAGNAGLO 14A</u> <u>RATCH 83C036</u> <u>.27 ML.</u> | |

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY



MT INSPECTION PER NDE 71-2
OF THE FOLLOWING CYLINDER WERE
FOUND SAT.

CYLINDER # 4

| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | |
|------------------------|---------------|---|--|
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
| #1 | NONE | N/A | ACCEPT NO RELEVANT INDICATIONS |
| #2 | NONE | N/A | ACCEPT NO RELEVANT INDICATIONS |
| #3 | NONE | N/A | ACCEPT NO RELEVANT INDICATIONS |
| #4 | NONE | N/A | ACCEPT NO RELEVANT INDICATIONS |
| D. ACCEPTANCE INITIALS | | OPERATOR <u>G. P.</u> DATE <u>9-12-83</u> | |
| ATTEST | | <u>G. P.</u> DATE <u>9-12-83</u> | |

NEW CRANK SHAFT 694

1843

PLANT/LOCATION

SNPS 2 / Turbine Deck 635E1

C-32-42

LIQUID PENETRANT EXAMINATION REPORT

| | | | | | | |
|-------------------------------|---------------------------|-----------------------------|-------------------------------|--|---------------------------------|---|
| A. MATERIAL | | TYPE <u>CARBON STEEL</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> <u>FORGED</u> WORKED |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: <u>CRANK SHAFT</u> |
| CROSS SECTION THICKNESS | MAX <u>N/A</u> INCH | MIN <u>N/A</u> INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | <input type="checkbox"/> OTHER |
| | | | | <input type="checkbox"/> AS FABRICATED | | |

| | | | |
|--------------------------------|--------------------------------|-------------------------------|---------------------|
| J. NO. ENCLOSURE <u>6.3</u> | TEMP. / HLT'L. <u>72° F</u> | <u>366</u> <u>10-22-83</u> | <u>PO 910552-29</u> |
|--------------------------------|--------------------------------|-------------------------------|---------------------|

| INSPECTION MATERIALS | BRAND | DESIGNATION | BATCH NO. |
|---------------------------------|------------------|---------------------|----------------|
| 1. PRE-CLEANER | <u>MAGNAFLUX</u> | <u>SKC-NF/2C-7B</u> | <u>820119</u> |
| 2. PENETRANT | | <u>ZL-22A</u> | <u>83 F003</u> |
| 3. EMULSIFIER AND/OR REMOVER | | <u>SKC-NF/2C-7B</u> | <u>820119</u> |
| 4. DEVELOPER | | <u>SKD-NF</u> | <u>83C042</u> |
| 5. POST EXAMINATION CLEANER | | <u>SKC-NF/2C-7B</u> | <u>820119</u> |

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY = ATTACHED

L.P. EXAM AS FOLLOW UP TO M.T. PER 7.12
CYL #4 CONNECTING ROD JOURNAL

| | |
|---------------|--|
| C. EVALUATION | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE. |
|---------------|--|

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|--------------|---------------------------|------------------------|--|
| 1 SEE SKETCH | <u>NONE</u> | <u>N/A</u> | <u>ACCEPT (NO RELEVANT INDS)</u> |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| D. APPROVAL | <u>L1160 NDE 63-4 2.2</u> | <u>Rodney J. Bower</u> | <u>II</u> <u>9/12/83</u> |

| | | | |
|-----------|------------------------|-----------|----------------|
| E. ATTEST | <u>Rodney J. Bower</u> | <u>II</u> | <u>9/12/83</u> |
|-----------|------------------------|-----------|----------------|

PT
NEW CRANK SHAFT S/N 699
COMPONENT I.D. 18.43 #4 CYL
SYSTEM
EMERG. DIS. GEN.
PLANT/LOCATION
SNPS-1
TUBING DECK EAST SIDE ETC



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | |
|--|--|--|---|
| A. MATERIAL | | TYPE <u>C/S</u> | FABRICATED PROCESS <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> <u>Forged</u> |
| | | GEOMETRY <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD <input checked="" type="checkbox"/> OTHER: <u>Shaft</u> | |
| CROSS SECTION THICKNESS | MAX <u>13</u> INCH | MIN <u>12</u> INCH | SURFACE CONDITION <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER |
| NDE PROCEDURE NO. <u>71-2</u> | | WIP <u>310552-27</u> | EQUIPMENT I.D. <u>SN Y-6-C</u> DATE NO. <u>N/A</u> |
| TECHNIQUE | <input type="checkbox"/> PRODS <input checked="" type="checkbox"/> YOKE <input type="checkbox"/> COIL <input type="checkbox"/> OTHER | | |
| CURRENT | <input checked="" type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> HW/DC <input checked="" type="checkbox"/> 10 lb PLATE <input type="checkbox"/> 40 lb PLATE | | |
| AMPS <u>N/A</u> | | PROD SPACING | |
| AMPS PER IN. <u>N/A</u> | | YOKE <u>12" Max</u> PRODS <u>N/A</u> | |
| MATERIALS | <input type="checkbox"/> DRY <input checked="" type="checkbox"/> WET BRAND/DESIGNATION <u>Magnaglo 14A</u> <u>26 in Batch #83C036</u> | | |
| SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY <u>Cyl #5 Con Rod + main Journals (critical areas)</u> | | | |
| | | | |

C. EVALUATION REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|------------------------|---|---------------|--|
| ① | <u>None</u> | <u>N/A</u> | <u>No relevant indications</u> |
| ② | <u>1" to 2"</u> | <u>Linear</u> | <u>Follow-up LP required</u> |
| ③ | | <u>"</u> | <u>"</u> |
| ④ | <u>None</u> | <u>N/A</u> | <u>No relevant indications</u> |
| D. ACCEPTANCE CRITERIA | <u>71-2</u> | | |
| | OPERATOR <u>Carl H. Russell</u> LEVEL <u>II</u> DATE <u>9/12/87</u> | | |

E. ATTEST

COMPONENT I.D. New Crankshaft
Cyl #5
ITEM I.D. 26 in
PLANT/LOCATION Turbine Deck (E.C.)



LIQUID PENETRANT EXAMINATION REPORT

| | | | | | | |
|-------------------------------|--------------------|----------------------|-------------------------------|--|---------------------------------|--|
| A. MATERIAL | | TYPE CARBON STEEL | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> FORGED WORKED |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: CRANK SHAFT |
| CROSS SECTION THICKNESS | MAX N/A INCH | MIN N/A INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | <input type="checkbox"/> OTHER |
| | | | | <input type="checkbox"/> AS FABRICATED | | |

| | | | |
|------------------------------|---------------------------------|---------------------|-----------------|
| B. NOM. PROCLINRE NO. 6.3 | SURFACE / FLAT L. TEMP. 72°F | NO. 366 10-22-83 | NO. PO 30552-27 |
|------------------------------|---------------------------------|---------------------|-----------------|

| INSPECTION MATERIALS | BRAND | DESIGNATION | BATCH NO. |
|---------------------------------|-----------|--------------|-----------|
| 1. PRE-CLEANER | MAGNAFLUX | SKC-NF/ZC-7B | 82 D 119 |
| 2. PENETRANT | | ZL-22A | 83 F003 |
| 3. EMULSIFIER AND/OR REMOVER | | SKC-NF/ZC-7B | 82 D 119 |
| 4. DEVELOPER | | SKD-NF | 83 C042 |
| 5. POST EXAMINATION CLEANER | | SKC-NF/ZC-7B | 82 D 119 |

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY = ATTACHED
 L.P. EXAM AS Follow up To M.T. PER 7.12
 CYL S - CONNECTING ROD JOURNAL

| | |
|---------------|--|
| C. EVALUATION | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE. |
|---------------|--|

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|--------------|------------------|--------------------|--|
| 1 SEE SKETCH | NONE | N/A | ACCEPT (NO RELEVANT INDS.) |
| #2 | | | |
| #3 | | | |
| 4 | | | |
| U.A. CI | | L1120 NAE 63.4.2.2 | Rodney J. Borne II 9/12/83 |

| | | | |
|---------|-----------------|----|---------|
| E. TEST | Rodney J. Borne | II | 9/12/83 |
|---------|-----------------|----|---------|

COMPONENT I.D. 1R43 #5 cyl.
 NEW CRANK SHAFT 9 IN 694
 SYSTEM
 EMERG. ALES. GEN
 PLANT/LOCATION
 SUPS-1
 TURBINE DECK EAST SIDE BLS



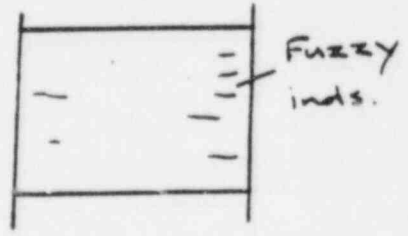
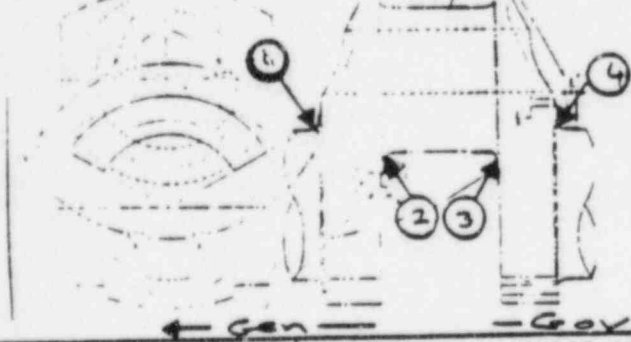
MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | |
|-----------------------------------|-----------------------------|----------------------------------|---------------------------------|---|---|
| A. MATERIAL | TYPE <u>cls</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> Forged WORKED |
| | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: <u>Crank shaft</u> |
| CROSS SECTION THICKNESS | MAX <u>1 3/4</u> INCH | MIN <u>1 1/2</u> INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND |
| | | | | <input checked="" type="checkbox"/> AS FABRICATED | <input type="checkbox"/> OTHER |
| B. NDE PROCEDURE NO. <u>7.1-2</u> | MWR/RR <u>NO. 310552-27</u> | EQUIPMENT I.D. S N <u>Y.C.C.</u> | DATE NO. <u>N/A</u> | | |

| | | | | |
|-----------|--|--|--------------------------------|---|
| TECHNIQUE | <input type="checkbox"/> PRODS | <input checked="" type="checkbox"/> YOKE | <input type="checkbox"/> COIL | <input type="checkbox"/> OTHER |
| CURRENT | <input checked="" type="checkbox"/> AC | <input type="checkbox"/> DC | <input type="checkbox"/> HW/DC | <input checked="" type="checkbox"/> 10 lb PLATE |
| | | | | <input type="checkbox"/> 40 lb PLATE |
| | AMPS <u>N/A</u> | PROD SPACING | | |
| | AMPS PER IN. <u>N/A</u> | YOKE <u>12" max</u> | PRODS <u>N/A</u> | |

| | | | |
|-----------|------------------------------|---|--------------------------------------|
| MATERIALS | <input type="checkbox"/> DRY | <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>Magneto 14A</u> |
| | | | <u>26 mi Batch # 930036</u> |

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY Cyl #6 Con Rod + main Journals (critical areas)



C. EVALUATION REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|----------|------------------|---------------------------|--|
| ① | <u>None</u> | <u>N/A</u> | <u>No relevant indications</u> |
| ② | <u>5/8 to 1"</u> | <u>Linear indications</u> | <u>Follow-up L.P. required</u> |
| ③ | <u>"</u> | <u>"</u> | <u>"</u> |
| ④ | <u>None</u> | <u>N/A</u> | <u>No relevant indications</u> |

| | | | | |
|------------------------|--------------|------------------------------|-----------------|---------------------|
| D. ACCEPTANCE CRITERIA | <u>7.1-2</u> | OPERATOR <u>Carl Hassell</u> | LEVEL <u>II</u> | DATE <u>9/12/83</u> |
|------------------------|--------------|------------------------------|-----------------|---------------------|


| | | | |
|-----------|---------------------|-----------------|---------------------|
| E. ATTEST | <u>Carl Hassell</u> | LEVEL <u>II</u> | DATE <u>9/12/83</u> |
|-----------|---------------------|-----------------|---------------------|

COMPONENT I.D. New Crankshaft
S/N 64
Cyl # 6
SYSTEM 1R43
Turbine Deck Elev.
PLANT/LOCATION

C-32-47



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | |
|---|--------------------------------|---|---|---|
| A. MATERIAL | | TYPE <u>C/S</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> ^{Forging} WORKED |
| CROSS SECTION THICKNESS | | MAX <u>13"</u> INCH | MIN <u>12"</u> INCH | SURFACE CONDITION |
| | | | | <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND |
| | | | | <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER |
| NDE PROCEDURE NO. <u>7.1-2</u> | | HWP/STY NO. <u>P0#30552-27</u> | | EQUIPMENT I.D. S N <u>681032</u> DATE NO. <u>N/A</u> |
| TECHNIQUE | <input type="checkbox"/> PRODS | <input type="checkbox"/> YOKE | <input checked="" type="checkbox"/> COIL | <input type="checkbox"/> OTHER |
| CURRENT | <input type="checkbox"/> AC | <input type="checkbox"/> DC | <input checked="" type="checkbox"/> HW/DC | <input type="checkbox"/> 10 LB PLATE <input type="checkbox"/> 40 LB PLATE |
| AMPS <u>1000/5 TURNS</u> | | PROD SPACING | | |
| AMPS PER IN. <u>N/A</u> | | YOKE <u>N/A</u> PRODS <u>N/A</u> | | |
| MATERIALS | <input type="checkbox"/> DRY | <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>MAGNAGLO 14A</u> BATCH <u>83C036</u> <u>27 ML.</u> | |
| SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY  <p>MT INSPECTION PER NDE 7.1-2 OF THE FOLLOWING CYLINDER WAS FOUND SAT. CYLINDER #6</p> | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | |
| #1 | NONE | N/A | ACCEPT NO RELEVANT INDICATIONS | |
| #2 | NONE | N/A | ACCEPT NO RELEVANT INDICATIONS | |
| #3 | NONE | N/A | ACCEPT NO RELEVANT INDICATIONS | |
| #4 | NONE | N/A | ACCEPT NO RELEVANT INDICATIONS | |
| D. ACCEPTANCE CRITERIA | <u>7.1-2</u> | | OPERATOR <u>C. P. R.</u> LEVEL <u>II</u> DATE <u>9-12-83</u> | |
| E. ATTEST | <u>C. P. R.</u> | | <u>II</u> <u>9-12-83</u> LEVEL DATE | |

NEW CRANK SHAFT 694

COMPONENT I.D. #6 CYL.

SYSTEM

IR43*

PLANT/LOCATION

SNPS2/Turbine Deck 63 FL

LIQUID PENETRANT EXAMINATION REPORT

| | | | | |
|---------------------------------|--------------------|----------------------|-----------------------|---|
| A. MATERIAL | | TYPE CARBON STEEL | FABRICATED PROCESS | <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> WORKED |
| CROSS SECTION THICKNESS | MAX N/A INCH | MIN N/A INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER |
| 3. NDE PROCEDURE 6.3 | | TEMP 72°F | DATE 10-22-83 | NO. 366 NO. 80310552-27 |
| INSPECTION MATERIALS | | BRAND | DESIGNATION | BATCH NO. |
| 1. PRE-CLEANER | | MAGNAFLUX | SKC-NF/2C-7B | 820119 |
| 2. PENETRANT | | | ZL-22A | 83 F003 |
| 3. EMULSIFIER AND/OR REMOVER | | | SKC-NF/2C-7B | 820119 |
| 4. DEVELOPER | | | SKD-NF | 83 C042 |
| 5. POST EXAMINATION CLEANER | | | SKC-NF/ZL-7B | 820119 |

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY = ATTACHED
L.P. EXAM AS FOLLOW UP TO M.T. PER 7.12
CYL # 6 - CONNECTING ROD JOURNAL

| | | | |
|------------------------|------------------|--|--|
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE. | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
| 1 SEE SKETCH | NONE | N/A | ACCEPT (NO RELEVANT IND.) |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| L.I.C.O. NDE 6.3422 | | Rodney S. Bonner II 9/12/83 | |
| E. A. | | Rodney S. Bonner | II 9/12/83 |
| DATE CERTIFIED PER NDE | | LEVEL | DATE |

COMPONENT I.D. 1R43 #6 CYL.
NEW CRANKSHAFT SN 644
SYSTEM
EMERG. D.I.E. GEN.
PLANT/LOCATION
SNPS-1
Turbine DEIC EAST SIDE ELCS



MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | | |
|---|--|---|---|--|--|--|
| A. MATERIAL | | TYPE | FABRICATED PROCESS | | <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> ^{Forged} WORKED | |
| | | GEOMETRY | <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: <u>Crank</u> | | |
| CROSS SECTION THICKNESS | MAX | MIN | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER | | |
| | 13 INCH | 12 INCH | | | | |
| NDE PROCEDURE NO. <u>71-2</u> | | MATERIAL NO. <u>310552-27</u> | | EQUIPMENT I.D. S N <u>YC-C</u> DATE NO. <u>NA</u> | | |
| TECHNIQUE | <input type="checkbox"/> PRODS <input checked="" type="checkbox"/> YOKE <input type="checkbox"/> COIL <input type="checkbox"/> OTHER | | | | | |
| CURRENT | <input checked="" type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> HW/DC <input type="checkbox"/> 10 lb PLATE <input type="checkbox"/> 40 lb PLATE | | | | | |
| AMPS <u>N/A</u> | | PROD SPACING | | PRODS <u>N/A</u> | | |
| AMPS PER IN. <u>N/A</u> | | YOKE <u>12" max</u> | | | | |
| MATERIALS | <input type="checkbox"/> DRY <input checked="" type="checkbox"/> WET | | BRAND/DESIGNATION <u>magnaglo 10A</u> | | | |
| SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY <u>Cyl #7 Con. Rod.</u> <u>Journal (critical area)</u> | | | | | | |
| | | | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | | | |
| 1 | | | | | | |
| 2 | 1/2" to 5" | Linear indications | Follow-up L.P. required | | | |
| 3 | | " | " " " | | | |
| D. ADEQUACY CRITERIA | | 71-2 | | OPERATOR <u>Carl Hassell</u> LEVEL <u>II</u> DATE <u>9/12/82</u> | | |
| E. ATTEST | | <u>Carl Hassell</u> RESPO. FOR CERTIFIED | | <u>II</u> LEVEL DATE <u>9/12/82</u> | | |

COMPONENT I.D. New Crankshaft 1

S/N 644

Cyl #7

SYSTEM 1843

Emergency Dies Can

PLANT/LOCATION

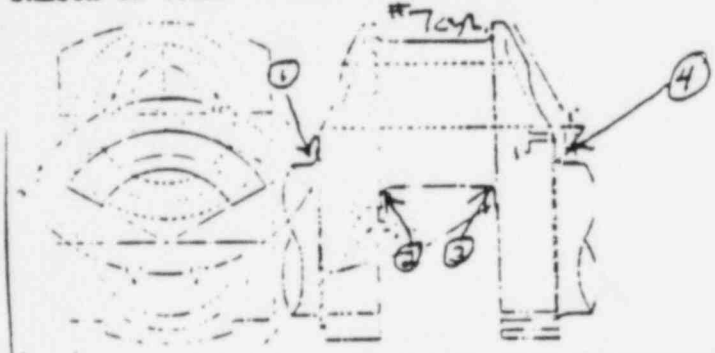
Turbine Bldg. E1-C31

MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | | |
|-----------------------------------|------------------|-------------------------------|---|---|---------------------------------|---|
| A. MATERIAL | | TYPE <u>Carbon Steel</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> <u>Forged WORKED</u> |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: <u>CRANK SHAFT</u> |
| CROSS SECTION THICKNESS | MAX <u>13</u> | MIN <u>12</u> | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | |
| | INCH | INCH | | <input checked="" type="checkbox"/> AS FABRICATED | <input type="checkbox"/> OTHER | |
| B. NDE PROCEDURE NO. <u>7.1-2</u> | | MWR/RR NO. <u>P0310552-27</u> | EQUIPMENT I.D. S/N <u>681032</u> DATE NO. <u>N/A</u> | | | |

| | | | | | |
|---------------------------|--------------------------------|---|--|--|--|
| TECHNIQUE | <input type="checkbox"/> PRODS | <input type="checkbox"/> Yoke | <input checked="" type="checkbox"/> COIL | <input type="checkbox"/> OTHER | |
| CURRENT | <input type="checkbox"/> AC | <input type="checkbox"/> DC | <input checked="" type="checkbox"/> HW/DC | <input type="checkbox"/> 10 lb PLATE <input type="checkbox"/> 40 lb PLATE | |
| AMPS <u>5 turns / 900</u> | | PROD SPACING | | | |
| AMPS PER IN. | | YOKE <u>N/A</u> PRODS <u>N/A</u> | | | |
| MATERIALS | <input type="checkbox"/> DRY | <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>MAGNAGLO 14A</u> <u>Batch # 83C036.27 ML</u> | | |

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY



| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | |
|---------------|---------------|---|--|
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
| ① | NONE | N/A | NO Relevant Indications NOTED |
| ② | NONE | N/A | NO Relevant Indications NOTED |
| ③ | NONE | N/A | NO Relevant Indications NOTED |
| ④ | NONE | N/A | NO Relevant Indications NOTED |

| | | | |
|---------------------|--------------------|---------------------------------|---------------------|
| ACCEPTANCE CRITERIA | <u>NDE 7.1-2</u> | OPERATOR <u>VICTOR PLATANIA</u> | DATE <u>9/13/83</u> |
| ATTEST | <u>[Signature]</u> | LEVEL <u>II</u> | DATE <u>9/13/83</u> |

CYL #7 new Crank Shaft - #694
1943 Emergency Diesel Generator
Turbine RIX EL. 63 EAST



LIQUID PENETRANT EXAMINATION REPORT

| | | | | | | |
|--|--------------------|--|---|--|---------------------------------|--|
| A. MATERIAL | | TYPE CARBON STEEL | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> FORGED WORKED |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: CRANK SHAFT |
| CROSS SECTION THICKNESS | MAX N/A INCH | MIN N/A INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | <input type="checkbox"/> OTHER |
| 1. NDE PROCEDURE 6.3 | | TEMP. / HLT'L. 72°F | | 366 10-22-83 | NO. PO310552-27 | |
| INSPECTION MATERIALS | | BRAND | DESIGNATION | BATCH NO. | | |
| 1. PRE-CLEANER | | MAGNAFLUX | SKC-NF/ZC-7B | 82D119 | | |
| 2. PENETRANT | | | ZL-22A | 83F003 | | |
| 3. EMULSIFIER AND/OR REMOVER | | | SKC-NF/ZC-7B | 82D119 | | |
| 4. DEVELOPER | | | SKD-NF | 83C042 | | |
| 5. POST EXAMINATION CLEANER | | | SKC-NF/ZC-7B | 82D119 | | |
| SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY ATTACHED LP EXAM AS FOLLOWUP TO MT. PER 7.12 CYL #7 CONNECTING ROD JOURNAL | | | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE. | | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | | | |
| 1 SEE SKETCH | NONE | N/A | ACCEPT (NO RELEVANT INDS.) | | | |
| #2 | | | | | | |
| #3 | | | | | | |
| 4 | | | | | | |
| LICO NDE 6.3-42.2 | | Rodney S. Bonner | | 9/12/83 | | |
| TEST | | Rodney S. Bonner | | 9/12/83 | | |

 COMPONENT I.D. 1243 #7 cyl.
 NEW CRANKSHAFT S/N 694

 SYSTEM
 EMERG. DIE. GEN.

 PLANT/LOCATION
 SNPS-1
 TURKING DEUC ENSTRIDE ELS



ILCO
LONG ISLAND LIGHTING

| | | | | | | | |
|-------------------------|---------|----------|-------------------------------|--------------------------------|---|---|---|
| A. MATERIAL | | TYPE | FABRICATED PROCESS | | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> FORGED WORKED |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: <u>5/8" x 1/2"</u> | |
| CROSS SECTION THICKNESS | MAX | MIN | SURFACE CONDITION | | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | |
| | 13 INCH | 12 INCH | | | <input checked="" type="checkbox"/> AS FABRICATED | <input type="checkbox"/> OTHER | |
| | | | EQUIPMENT NO. <u>46-C</u> | | | | |

COMPONENT I.D. New Crankshaft
S/N 674
CY 1 #8

SISTEM 1843

Emerg Dias Green

| LANT/LOCATION |
|----------------------|
| Turbine Deck E1 & S1 |

.. NDE PROCEDURE
NO. 7.1-2

TECHNIQUE ☐ PRODS ☒ YOKE ☐ COIL ☐ OTHER

☒ AC ☐ DC ☐ HW/DC ☒ 10 18 PLATE ☐ 40 18 PLATE

CURRENT

| | |
|------|--------------|
| AMPS | PROD SPACING |
| AMPS | YOKE 12" max |
| | PRODS |

| | | | |
|-----------|------------------------------|---|--|
| MATERIALS | <input type="checkbox"/> DRY | <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION 26 mi Batch #83C036 |
|-----------|------------------------------|---|--|

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY. Cy/ #8 Gen + Gov.
 #8-yl. main Journals (critical areas)

The sketch shows a mechanical assembly with two main components labeled 1 and 4. Component 1 is on the left, and component 4 is on the right. Arrows point from the labels to the components. Below the components, there are two horizontal arrows: one pointing left labeled 'Gen' and one pointing right labeled 'Gov'. To the right of the main sketch, there is a separate diagram consisting of two horizontal lines and a vertical line, with a label 'Fuzzy ind's' pointing to the vertical line.

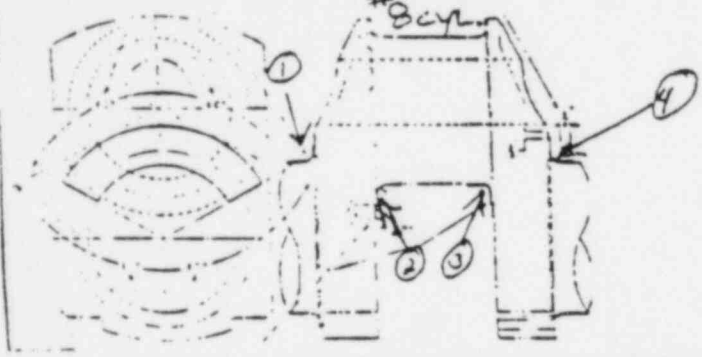
| | |
|---------------|---|
| C. EVALUATION | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE |
|---------------|---|

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|----------|------------------|-----------------------|--|
| ① | N/A | None | No relevant indications |
| 2 | | | |
| 3 | | | |
| ④ | 3/8" | Linear indications | Follow VPLP required |

| | | |
|------------------------|---------|--|
| D. ACCEPTANCE CRITERIA | 7.1 - 2 | OPERATOR <u>Earl Kessie</u> LEVEL <u>II</u> DATE <u>9/12/78</u> |
|------------------------|---------|--|

| | | | |
|-----------|---------------------|-----------|----------------|
| E. ATTEST | <u>Earl Hassell</u> | <u>IT</u> | <u>9/12/88</u> |
| | RECEIVED | LEVEL | DATE |

MAGNETIC PARTICLE EXAMINATION REPORT

| | | | | | | | |
|--|---------------|--|--|--|--|--|--|
| A. MATERIAL | | TYPE <u>Crabon Steel</u> | | FABRICATED PROCESS | | <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> Forged WORKED | |
| CROSS SECTION THICKNESS | | MAX <u>13</u> INCH | MIN <u>12</u> INCH | SURFACE CONDITION | | <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER | |
| B. NDE PROCEDURE NO. <u>7.1-2</u> | | MWR/RR NO. <u>90#310552-27</u> | | EQUIPMENT I.D. S/N. <u>Y6-C</u> DATE NO. <u>N/A</u> | | | |
| TECHNIQUE | | <input type="checkbox"/> PRODS <input checked="" type="checkbox"/> YOKE <input type="checkbox"/> COIL <input type="checkbox"/> OTHER | | | | | |
| CURRENT | | <input checked="" type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> HW/DC | | <input checked="" type="checkbox"/> 10 lb PLATE <input type="checkbox"/> 40 lb PLATE | | | |
| | | AMPS <u>N/A</u> AMPS PER IN. <u>N/A</u> | | PROD SPACING <u>6"</u> YOKE <u>6"</u> PRODS <u>N/A</u> | | | |
| MATERIALS | | <input type="checkbox"/> DRY <input checked="" type="checkbox"/> WET | | BRAND/DESIGNATION <u>BRAGAGLO 14A</u> <u>BAR#P3C036.27AL</u> | | | |
| SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY  | | | | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED, AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE | | | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | | | | |
| 1 <u>N/A</u> | <u>N/A</u> | <u>N/A</u> | <u>N/A</u> | | | | |
| ② | <u>NONE</u> | <u>N/A</u> | <u>NO RELEVANT INDICATIONS</u> | | | | |
| ③ | <u>NONE</u> | <u>N/A</u> | <u>NO RELEVANT INDICATIONS</u> | | | | |
| 4 <u>N/A</u> | <u>N/A</u> | <u>N/A</u> | <u>N/A</u> | | | | |
| D. ACCEPTANCE CRITERIA | | <u>N/A 7.1-2</u> | | OPERATOR <u>VICTOR PLATANIA</u> LEVEL <u>II</u> DATE <u>9/13/83</u> | | | |
| E. ATTEST | | <u>[Signature]</u> RESPONSIBLE CERTIFIED PERSONNEL | | <u>II</u> LEVEL | | <u>9/12/83</u> DATE | |

CYL #8 New Crankshaft #6511 112Y3 Emergency Diesel Governor Turbine B106 EL 23 605



MAGNETIC PARTICLE EXAMINATION REPORT

COMPONENT I.D. # 8 cyl.
SYSTEM
IR45
NEW CRANK SHAFT 634
5N052/TURBINE DECK 6344


| | | | |
|-------------------------|---------------------|---|---|
| A. MATERIAL | TYPE <u>C/S</u> | FABRICATED PROCESS | <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> FORGING WORKED |
| | GEOMETRY | <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD <input checked="" type="checkbox"/> OTHER: <u>CRANK</u> | |
| CROSS SECTION THICKNESS | MAX <u>13"</u> INCH | MIN <u>12"</u> INCH | SURFACE CONDITION <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER |

| | | |
|----------------------------------|-----------------------------|--|
| E. NDE PROCEDURE NO. <u>71-2</u> | MWR/SS NO. <u>310552-27</u> | EQUIPMENT I.D. S.N. <u>681032</u> DATE NO. <u>N/A</u> |
|----------------------------------|-----------------------------|--|

| | |
|--|---|
| TECHNIQUE | <input type="checkbox"/> PRODS <input type="checkbox"/> YOKE <input checked="" type="checkbox"/> COIL <input type="checkbox"/> OTHER |
| CURRENT | <input type="checkbox"/> AC <input type="checkbox"/> DC <input checked="" type="checkbox"/> HW/DC <input type="checkbox"/> 10 15 PLATE <input type="checkbox"/> 40 15 PLATE |
| AMPS <u>1000/15 turns</u> PROD SPACING AMPS PER IN. <u>N/A</u> YOKE <u>N/A</u> PRODS <u>N/A</u> | |

| | | |
|-----------|--|--|
| MATERIALS | <input type="checkbox"/> DRY <input checked="" type="checkbox"/> WET | BRAND/DESIGNATION <u>MAGNAGLO 14A</u> <u>BATCH 83C036</u> <u>.27 ml.</u> |
|-----------|--|--|

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY
MT INSPECTION PER NDE 71-2
OF THE FOLLOWING CYLINDER WAS
FOUND SAT.
CYLINDER # 8

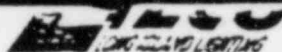


| | |
|---------------|---|
| C. EVALUATION | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE |
|---------------|---|

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|----------|---------------|-------------|--|
| #1 | NONE | NM | ACCEPT NO RELEVANT INDICATIONS |
| #2 | NONE | NM | ACCEPT NO RELEVANT INDICATIONS |
| #3 | NONE | NM | ACCEPT NO RELEVANT INDICATIONS |
| #4 | NONE | NM | ACCEPT NO RELEVANT INDICATIONS |

| | | |
|------------------------|-------------|--|
| D. ACCEPTANCE CRITERIA | <u>71-2</u> | OPERATOR <u>[Signature]</u> LEVEL <u>II</u> DATE <u>9-12-83</u> |
|------------------------|-------------|--|

| | | |
|-----------|--------------------|-------------------------------------|
| E. ATTEST | <u>[Signature]</u> | <u>II</u> LEVEL DATE <u>9-12-83</u> |
|-----------|--------------------|-------------------------------------|



LIQUID PENETRANT EXAMINATION REPORT

| | | | | | | |
|--|--------------------|--|---|--|---------------------------------|--|
| A. MATERIAL | | TYPE CARBON STEEL | FABRICATED PROCESS | <input type="checkbox"/> WELDED | <input type="checkbox"/> CAST | <input checked="" type="checkbox"/> FORGED WORKED |
| | | GEOMETRY | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input type="checkbox"/> OTHER: CRANK SHAFT |
| CROSS SECTION THICKNESS | MAX N/A INCH | MIN N/A INCH | SURFACE CONDITION | <input checked="" type="checkbox"/> MACHINED | <input type="checkbox"/> GROUND | <input type="checkbox"/> OTHER |
| | | | | <input type="checkbox"/> AS FABRICATED | <input type="checkbox"/> OTHER | |
| 1. NDL DISCLOSED 63 | | SURFACE / PLAT'L. TEMP. 72°F | | 366 | 10-22-83 | |
| INSPECTION MATERIALS | | BRAND | DESIGNATION | BATCH NO. | | |
| 1. PRE-CLEANER | | MAGNAFLUX | SKC-NF/ZC-7B | 820119 | | |
| 2. PENETRANT | | | ZL-22A | 83F003 | | |
| 3. EMULSIFIER AND/OR REMOVER | | | SKC-NF/ZC-7B | 820119 | | |
| 4. DEVELOPER | | | SKD-NF | 83C042 | | |
| 5. POST EXAMINATION CLEANER | | | SKC-NF/ZC-7B | 820119 | | |
| SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY - ATTACHED L.P. EXAM AS FOLLOWUP TO MT PER 7.12 CYL 8 GOV. JOURNAL | | | | | | |
| C. EVALUATION | | REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE. | | | | |
| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) | | | |
| 1 SEE SKETCH | NONE | N/A | ACCEPT (NO RELEVANT INDS) | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| | | LICO NOE 63422 | | Rodney S. Bonner II 9/12/83 | | |
| E. ATTEST | | Rodney S. Bonner | | II 9/12/83 | | |

 COMPONENT I.D. • 1R43484L
 NEW CRANK SHAFT SIN 694
 SYSTEM

EMERG. D.G.S. GEN.

 PLANT/LOCATION
 SNPS-1
 TURBINE DECK EAST SIDE ETC.

LIQUID PENETRANT EXAMINATION REPORT

| | | | | | |
|-------------------------|-------------------------|-------------------------------|--|--|---|
| A. MATERIAL | | TYPE <i>Carbon Steel</i> | | FABRICATED PROCESS <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> <i>Formed</i> <i>WORKED</i> | |
| GEOMETRY | | <input type="checkbox"/> PIPE | <input type="checkbox"/> PLATE | <input type="checkbox"/> ROD | <input checked="" type="checkbox"/> OTHER: <i>Crank Shaft</i> |
| CROSS SECTION THICKNESS | MAX <i>24.6</i> INCH | MIN <i>4.5</i> INCH | SURFACE CONDITION <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER | | |

| | | | |
|---------------------------------|--------------------------------------|---|---------------------------------|
| B. SIZE IN INCHES <i>6.3</i> | SURFACE/PLAT'L. TEMP. <i>75°F</i> | MATE. NO. <i>366</i> <i>10-22-83</i> | MNR/RR. No. <i>910552-27</i> |
|---------------------------------|--------------------------------------|---|---------------------------------|

| INSPECTION MATERIALS | BRAND | DESIGNATION | BATCH NO. |
|------------------------------|------------------|---------------------|---------------|
| 1. PRE-CLEANER | <i>Magnaflux</i> | <i>SKL-NF/2C-7</i> | <i>81G068</i> |
| 2. PENETRANT | <i>Magnaflux</i> | <i>2L-22A</i> | <i>83F003</i> |
| 3. EMULSIFIER AND/OR REMOVER | <i>Magnaflux</i> | <i>SKL-NF/2C-7</i> | <i>81G068</i> |
| 4. DEVELOPER | <i>Magnaflux</i> | <i>SKD-NF/2P-9B</i> | <i>83C042</i> |
| 5. POST EXAMINATION CLEANER | <i>Magnaflux</i> | <i>SKL-NF/2C-7</i> | <i>81G068</i> |

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY

*L.P. Exam as a follow up to M.T. per 7.1-2.
#8 Main.*

C. EVALUATION

REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE.

| LOCATION | SIZE (INCHES) | DESCRIPTION | ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY) |
|---------------------|---------------|--|--|
| 1 <i>See Sketch</i> | <i>None</i> | <i>N/A</i> | <i>Accept (No Relevant inds.)</i> |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| Lico MDE 6.3-4.22 | | <i>Anda W. Moore</i> <i>II</i> <i>9-13-83</i> | |

TEST

RESPONSIBLE CERTIFY

II

9-13-83

#8 cyl.

New Crankshaft SN 694

Emergency Dies. Gen.

Turbine Deck East Side EL 63

PLANT/LOCATION
SNPS-1

NUCLEAR REGULATORY COMMISSION

Docket No. 50-322-06 Official Ex. No. C-33
 In the matter of LHCO-Shoreham
 Staff _____ IDENTIFIED ✓
 Applicant ✓ RECEIVED ✓
 Intervenor _____ REJECTED _____
 Cont'g Off'r _____
 Contractor _____ DATE 9-20-85
 Other _____ Witness Panel
 Reporter HCE