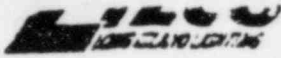


NEW CRANKSHAFT
S/N 693M
PO 310552-26

Cyl #	SPATA	Location	NDE Method + Initials			
Cyl #1	1	main Gen Journ.	<input checked="" type="checkbox"/> Yoke BF	<input checked="" type="checkbox"/> Coil D.P.	<input checked="" type="checkbox"/> UT RM	<input type="checkbox"/> LP NA
	2	C.R. Journ.	<input checked="" type="checkbox"/> Yoke BF	<input checked="" type="checkbox"/> Coil D.P.	<input checked="" type="checkbox"/> UT RM	<input type="checkbox"/> LP NA
	3	C.R. Journ.	<input checked="" type="checkbox"/> Yoke BF	<input checked="" type="checkbox"/> Coil D.P.	<input checked="" type="checkbox"/> UT RM	<input type="checkbox"/> LP NA
	4	main Gov 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
Cyl #2	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 EH
	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 NA
Cyl #3	1	main Gen Journ.	<input checked="" type="checkbox"/> Yoke D.P.	<input checked="" type="checkbox"/> Coil D.P.	<input checked="" type="checkbox"/> UT RM	<input type="checkbox"/> LP NA
	2	C.R. Journ.	<input checked="" type="checkbox"/> Yoke D.P.	<input checked="" type="checkbox"/> Coil D.P.	<input checked="" type="checkbox"/> UT RM	<input type="checkbox"/> LP NA
	3	C.R. Journ.	<input checked="" type="checkbox"/> Yoke D.P.	<input checked="" type="checkbox"/> Coil D.P.	<input checked="" type="checkbox"/> UT RM	<input type="checkbox"/> LP NA
	4	main Gov Journ.	<input checked="" type="checkbox"/> Yoke D.P.	<input checked="" type="checkbox"/> Coil D.P.	<input checked="" type="checkbox"/> UT RM	<input type="checkbox"/> LP NA
Cyl #4	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 EH
	2	C.R. Journ.	<input checked="" type="checkbox"/> Yoke BF	<input checked="" type="checkbox"/> Coil D.P.	<input checked="" type="checkbox"/> UT RM	<input type="checkbox"/> LP NA
	3	C.R. Journ.	<input checked="" type="checkbox"/> Yoke BF	<input checked="" type="checkbox"/> Coil D.P.	<input checked="" type="checkbox"/> UT RM	<input type="checkbox"/> LP NA
	4	main Gov 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
Cyl #5	1	main Gen Journ.	<input checked="" type="checkbox"/> Yoke BF	<input checked="" type="checkbox"/> Coil D.P.	<input checked="" type="checkbox"/> UT RM	<input type="checkbox"/> LP NA
	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 NA
Cyl #6	1	main Gen Journ.	<input checked="" type="checkbox"/> Yoke BF	<input checked="" type="checkbox"/> Coil D.P.	<input checked="" type="checkbox"/> UT RM	<input type="checkbox"/> LP NA
	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 NA

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

Cyl #	A #	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"/> ^{Forged} WORKED
CROSS SECTION THICKNESS		MAX <u>13"</u> INCH	MIN <u>12"</u> INCH	SURFACE CONDITION		
				<input checked="" type="checkbox"/> MAG. LEED	<input type="checkbox"/> GROUND	
				<input type="checkbox"/> AS FABRICATED	<input type="checkbox"/> OTHER	

B. NDE PROCEDURE NO. <u>71-2</u>	MANUFACT. NO. <u>PO# 310552-26</u>	EQUIPMENT I.I. S/N <u>Y6-C</u>	MATE. NO. <u>N/A</u>
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TECHNIQUE	<input type="checkbox"/> PRODS	<input checked="" type="checkbox"/> COIL	<input type="checkbox"/> COIL	<input type="checkbox"/> OTHER
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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
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WIRE	<u>N/A</u>	SPACING	<u>N/A</u>
AMPS. P.I.C.	<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>
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SKETCH OR OTHER DETAIL:

#1 con rod pin & main journal critical areas

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

Sketch above shows fuzzy indications in main journal & end of #1 con. rod pin

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 End of #1 con. Rod Pin	1/2 - 2	linear fuzzy indication	Indications to be & P inspected per NDE 7.1-2 - see attached L.P. report
			<u>Z. J. French</u> <u>9/9/53</u>

DATE 9/9/53

COMPONENT I.D. New Crankshaft
#1 CYL
SN 693M
SYSTEM
1R413
PLANT/LOCATION
TB-63-E



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
CROSS SECTION THICKNESS	MAX INCH	MIN INCH	GEOMETRY <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD <input checked="" type="checkbox"/> OTHER: <u>Crank Shaft</u> SURFACE CONDITION <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER

B. NDE PROCEDURE <u>G3</u>	TEMPERATURE <u>78°F</u>	DESIGNATION <u>366</u>	BATCH NO. <u>10-22-83</u>
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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.
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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			

EXAMINER	<u>Carl Hassell</u>	DATE	<u>9/9/83</u>
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E. TEST	<u>Carl Hassell</u>	DATE	<u>9/4/83</u>
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COMPONENT I.D. IR43*E.C.4
 #1 Cyl Governor End Main Journal
 New Crankshaft SW 933A

SYSTEM
 IR43*EMERG. D.S. Gen

TURBINE DECK, EAST SIDE #1



MAGNETIC PARTICLE EXAMINATION REPORT

A. MATERIAL

TYPE *C/S* FABRICATED PROCESS WELDED CAST WORKED

GEOMETRY PIPE PLATE ROD OTHER: *Component*

THICKNESS MAX *13"* MIN *12"* SURFACE CONDITION MACHINED GROUND AS FABRICATED OTHER

B. NDE PROCEDURE

NO. *7.1-2* EQUIPMENT I.D. S/N *Y6-C*

NO. *20# 310552-26* MATE NO. *N/A*

TECHNIQUE PROBE COIL OTHER

CURRENT AC HW/DC 10 LB. PLATE 40 LB. PLATE

SPACING

NO. *12" max* PROCS *N/A*

MATERIALS DRY WET BRAND/DESIGNATION *Magnaglo 14 A Batch # S31036*

SKETCH OR OTHER DETAIL:

#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 3/16	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

[Signature] DATE *9/9/53*

E. REVIEWER

[Signature] DATE *9/9/53*

COMPONENT I.D. New Component #1
#2 con. rod pin
SYSTEM 1R43

13-63-1-E



LIQUID PENETRANT EXAMINATION REPORT

A. MATERIAL

TYPE: _____ FABRICATED PROCESS: WELDED CAST **Forged WORKED**

GEOMETRY: PIPE PLATE ROD **OTHER: Crankshaft**

CROSS SECTION THICKNESS: _____ MAX: _____ MIN: _____ INCH

SURFACE CONDITION: MACHINED GROUND AS FABRICATED OTHER

WIDE PROCEDURE: _____ TEMP: **78°F** DATE: **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

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

SYSTEM
1R43M Emerg Dies. Gen.

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

ASSISTED 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. See sketch N/A E. 1+	None	N/A	Accept (No relevant inds)
2			
3			
4			

PLANT/LOCATION
Turbine Deck East Side E.I.C.S.

EXAMINER: Carl Hassell II 9/9/83

DATE: 9/9/83



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 _____ INCH	MIN _____ INCH	SURFACE CONDITION		
				<input checked="" type="checkbox"/> MACHINED	<input type="checkbox"/> GROUND	
				<input checked="" type="checkbox"/> AS FABRICATED	<input type="checkbox"/> OTHER	

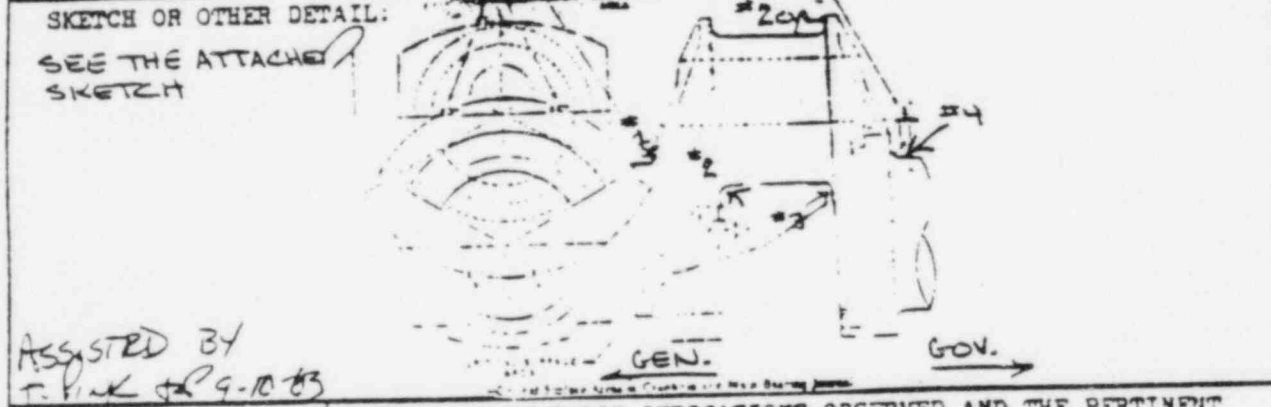
B. NDE PROCEDURE NO. <u>7.1-2</u>	<u>PO# 310552-26</u>	EQUIPMENT I.D. NO. <u>681032</u>	DATE NO. <u>N/A</u>
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TECHNIQUE	<input type="checkbox"/> PRODS	<input type="checkbox"/> YOKE	<input checked="" type="checkbox"/> COIL	<input type="checkbox"/> OTHER
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CURRENT	<input type="checkbox"/> AC	<input type="checkbox"/> DC	<input checked="" type="checkbox"/> HW/DC	<input type="checkbox"/> OTHER
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VOLTS <u>1000/STANDARD</u>	AMPS. PER IN. <u>N/A</u>	<u>N/A</u>	<u>N/A</u>
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MATERIALS	<input type="checkbox"/> DRY	<input checked="" type="checkbox"/> WET	BRAND/DESIGNATION	<u>MAGNAGLO 14A</u>	<u>BATCH #83C036</u>	<u>.27ML</u>
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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

OPERATOR	<u>N/E 7.1-2</u>	<u>JENNIS PIETROWSKI</u>	<u>9-10-83</u>
ATTENT	<u>[Signature]</u>	<u>II</u>	<u>9-10-83</u>

COMPONENT I.D. SPE. 43M
 MAIN BEARING JOURNAL BETWEEN #2 & #3 CYLINDERS
 SYSTEM
 1945A
 LOCATION
 SPS 51 TURBINE BEAR 63' EV



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
CROSS SECTION THICKNESS		MAX <i>N/A</i>	MIN <i>N/A</i>	SURFACE CONDITION		
		INCH	INCH	<input checked="" type="checkbox"/> MACHINED	<input type="checkbox"/> GROUND	
				<input type="checkbox"/> AS FABRICATED	<input type="checkbox"/> OTHER	

COMPONENT I.D.
NEW CRANK SHAFT
S/N # 693M

4. NDE INSTRUMENT	TEMP. / MAT'L.	366
<i>6.3/11-2</i>	<i>80°F</i>	<i>due 10-22-03</i>

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

SYSTEM
1R-A3*

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.
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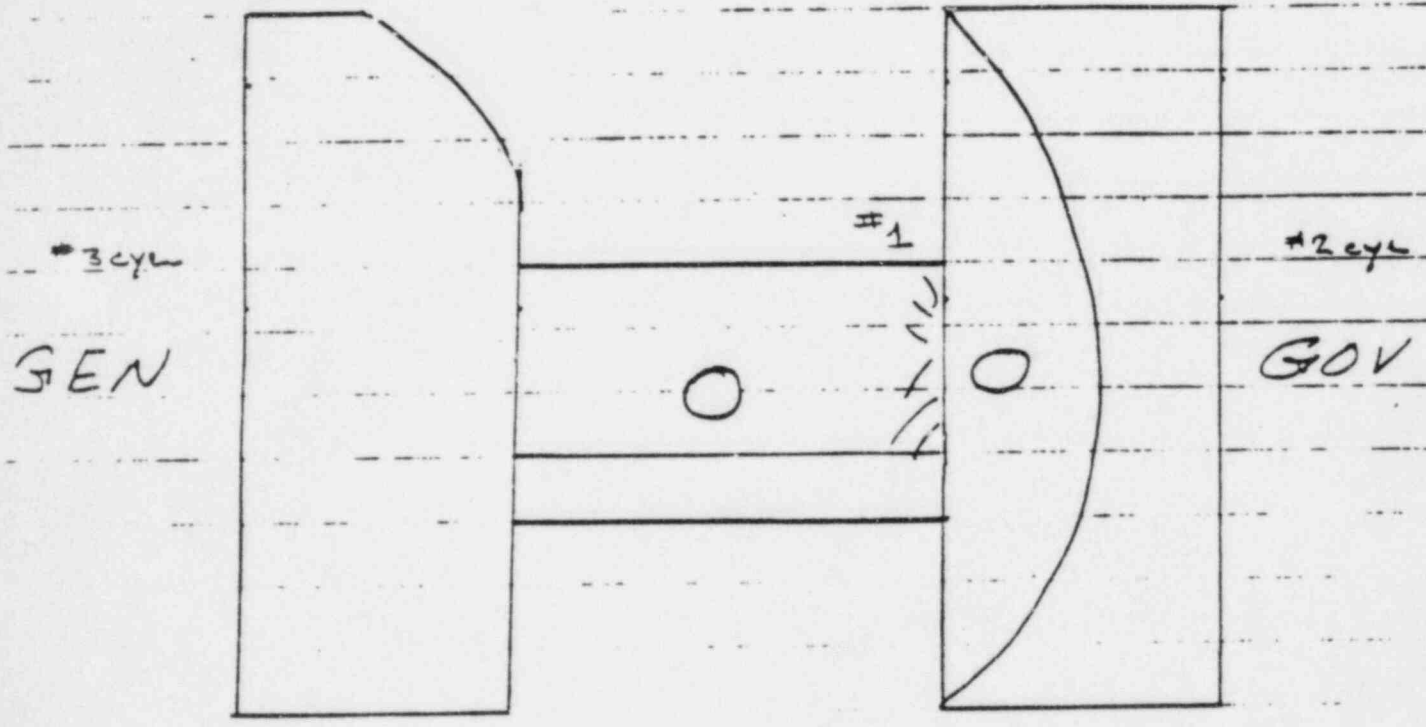
LOCATION	SIZE (INCHES)	DESCRIPTION	ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY)
#1	NONE	N/A	NO RELEVANT INDICATIONS
#2	NONE	N/A	NO RELEVANT INDICATIONS
#3	NONE	N/A	NO RELEVANT INDICATIONS
#4	NONE	N/A	NO RELEVANT INDICATIONS
	<i>NYE 71-2+6.3</i>		<i>KENNIS PIETROWSKI</i> <i>II</i> <i>9/10/03</i>

PLANT/LOCATION
SNB-1 / TURBINE DECK

E. ATTEST	<i>[Signature]</i>	<i>II</i>	<i>9/10/03</i>
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MAIN BEARING JOURNAL BETWEEN CYL # 2 & 3

TOP VIEW
LOOKING DOWN



NEW CRANKSHAFT S/N # 693M



MAGNETIC PARTICLE EXAMINATION REPORT

A. MATERIAL

TYPE c/s FABRICATED PROCESS: WELDED CAST FORGING WORKED

GEOMETRY: PIPE PLATE ROD OTHER: CRANK SHAFT

CROSS SECTION THICKNESS: MAX 13" MIN 12" SURFACE CONDITION: MACHISED GROINED AS FABRICATED OTHER

b. MPE PRODUCT NO. 7.1-2 **MMA/BR NO.** PO#310522-26 **EQUIPMENT I.D. S/N** Y6-C **MATE NO.** N/A

TECHNIQUE PRODS YOKE COIL OTHER

CURRENT AC DC HW/DC 10 LB PLATE 40 LB

SPACING YOKE 12" MAX. PRODS N/A

MATERIALS DRY WET **BRAND/DESIGNATION** MAGNAGLO 14A BATCH # 83C036 .27 ML.

SKETCH OR OTHER DETAIL:
 M.I. INSPECTION PER N/E 7.1-2 OF #3 CYL. WAS FOUND SAT. AT TIME OF INSPECTION (YOKE METHOD)

ASSISTED BY J. P. K. JR 9985

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	"	"	" " "
#4	"	"	" " "

D. INSPECTOR N/E 7.1-2 **INSPECTOR** JENNIS PIETROWSKI II **DATE** 9/9/83

E. ACCEPT [Signature] **LEVEL** II **DATE** 9/9/83

COMPONENT I.D. S/N # 6934
 NEW CRANKSHAFT
 CYLINDER # 3
 BISTEN
 1R43X
 ILLINOIS
 S/N 5-1 TURBINE (SEE 63' ENV)



MAGNETIC PARTICLE EXAMINATION REPORT

A. MATERIAL

TYPE C/S FABRICATED PROCESS WELDED CAST ^{Forged} WORKED

GEOMETRY PIPE PLATE ROD OTHER: Crankshaft

CROSS SECTION THICKNESS: MAX 13" INCH, MIN 12" INCH

SURFACE CONDITION: MACHISED GROUND AS FABRICATED OTHER

B. NDE PROCEDURE

NO. 7-1-2 ^{DMR/RR} NO. 90-310552-26 EQUIPMENT I.D. S/N Y6-C

MADE NO. N/A

TECHNIQUE: PRODS YOKE COIL OTHER

CURRENT: AC DC HW/DC 10 lb. PLATE 40 lb. PLATE

AMPS. N/A SPACING N/A

AMPS. PER IN. N/A YOKE 12" max. PRODS N/A

MATERIALS: DRY WET BRAND/DESIGNATION Magnaglo 14A

Batch #53036

SKETCH OR OTHER DETAIL:

Sketch above shows fuzzy indication in main journal between sun rod pins #4 & #5.

Sketch above shows fuzzy indication in main journal between sun rod pins #3 & #4.

#4 con rod pin & main journal 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 Main Journal between #4 & #5 con rod 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 rod pins	2" to 5"	linear fuzzy indications	Indications to be L.P. inspected per 7-1-2 See Attached L.P. report
D. ADDITIONAL COMMENTS	NDE 7-1-2		<u>William J. Zumbly</u> 9/9/83

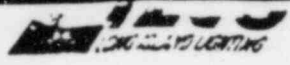
E. ATTEST

William J. Zumbly LEVEL II DATE 9/9/83

ASSIGNED BY J. P. ...

COMPONENT I.D. New Crankshaft SYSTEM 1 R113

LAB/LOCATION TB-631-E



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	
D. NDT PROCEDURE 6.3		TEMP. / MAT'L. 78°F		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)		
<u>See sketch</u> <u>1 N/A E.14</u>	<u>None</u>	<u>N/A</u>	<u>Accept (No relevant inds.)</u>		
2					
3					
4					
E. ATTEST		<u>Carl Hassell</u>		<u>9/9/83</u>	

COMPONENT I.D. IR43
 Main Journal between Cyls #3 + #4
 New Crankshaft 2N693M
 IR43 Emgrg. Dies. Cans.
 SYSTEM
 PLANT/LOCATION
 Turbine Deck East Side E153



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"/> WORKED
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
3. NDE PROCEDURE # <u>63</u>		TEMP. / MAT'L. TEMP. <u>78°F</u>	<u>366</u> 10-22-83 <u>310552-26</u>
INSPECTION MATERIALS	BRAND	DESIGNATION	BATCH NO.
1. PRE-CLEANER	<i>Magnaflux</i>	<i>SKG-NF/ZC7B</i>	<i>R2D119</i>
2. PENETRANT		<i>ZL22A</i>	<i>R3F003</i>
3. EMULSIFIER AND/OR REMOVER		<i>SKG-NF/ZC7B</i>	<i>R2D119</i>
4. DEVELOPER		<i>SKD-NF</i>	<i>R2D111</i>
5. POST EXAMINATION CLEANER		<i>SKG-NF/ZC7B</i>	<i>R2D119</i>

COMPONENT I.D. 1R43
 Main Journal Btwn. Cyls. #4 + 5
 New Crankshaft 5/19/83M

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

SYSTEM 1R43
 Emerg. Dies. Gen.

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)
<i>See sketch</i>			
1	<i>N/A</i>	<i>None</i>	<i>Accept (No relevant inds.)</i>
2			
3			
4			
	<i>Like NDE 6.3.4.2.2</i>		<i>Carl Hassell</i> <i>II</i> <i>9/9/83</i>

PLANT/LOCATION
 Turbine Deck East Side E1.63

TEST Carl Hassell II 9/9/83



MAGNETIC PARTICLE EXAMINATION REPORT

A. MATERIAL

TYPE L/S FABRICATED PROCESS WELDED CAST ^{Forged} WORKED

GEOMETRY PIPE PLATE ROD OTHER: Crankshaft

THICKNESS 13" INCH MLE 12" INCH SURFACE CONDITION MACHINED GROUND AS FABRICATED OTHER

B. NDE PROCEDURE

NO. 71-2 MT/PT/RR NO. P.O.# 310552-26 EQUIPMENT I.D. S/N Y6-C

MATE. NO. N/A

TECHNIQUE PRODS FINE COIL OTHER

CURRENT AC DC HW/DC 10 LB. PLATE 40 LB. PLATE

AMPS. N/A SPACING 12" max

WIRE N/A PRODS N/A

MATERIALS DRY WET BRAND/DESIGNATION Magnaglo 14A

Batch # 83036

SKETCH OR OTHER DETAIL:

Sketch shows fuzzy indications in con. rod pin

5 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 indications
#2	1" to 3"	linear fuzzy indications as shown in sketch	Indications to be L.P. inspected per NDE 71-2. See attached L.P. report
#3			
#4	none	N/A	No relevant indications
NDE 71-2			<u>Quinn J. Zamb</u> 9/9/53

DATE 9/9/53 TIME 11 LEVEL 3 PAGE 0472

COMPONENT I.D. New Crankshaft 1

5 con rod pin

SYSTEM 1 R415

PLANT LOCATION 113-631-E



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>Forged</i> WORKED
CROSS SECTION THICKNESS	MAX <i>13"</i> INCH	MIN <i>12"</i> INCH	SURFACE CONDITION <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER

3. WDG PROCEDURE <i>6.3</i>	TEMP / MAT'L. TEMP. <i>78°F</i>	<i>366</i> 10-22-93	<i>310552-26</i>
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INSPECTION MATERIALS	BRAND	DESIGNATION	BATCH NO.
1. PRE-CLEANER	<i>Magnaflux</i>	<i>SKC-NF/2C7B</i>	<i>82D119</i>
2. PENETRANT		<i>AL 22A</i>	<i>83F003</i>
3. EMULSIFIER AND/OR REMOVER		<i>SKC-NF/2C7B</i>	<i>82D119</i>
4. DEVELOPER		<i>SKD-NF</i>	<i>82D111</i>
5. POST EXAMINATION CLEANER		<i>SKC-NF/2C7B</i>	<i>82D119</i>

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*

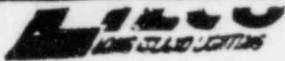
C. EVALUATION REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE.

LOCATION	SIZE (INCHES)	DESCRIPTION	ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY)
<i>See sketch</i> 1 <i>N/A C. 14</i>	<i>None</i>	<i>N/A</i>	<i>Accept (No relevant inds)</i>
2			
3			
4			
Lilco M.D. 6.3-4.2.2			<i>Carl Hassell</i> <i>II</i> <i>9/9/83</i>
TEST	<i>Carl Hassell</i>		<i>II</i> <i>9/9/83</i>

CONDITION I.D. 1R43
 #5 Cyl. Con Rod Pin Journal
 New Cranhaft shaft 5/16/93M

SYSTEM 1R43
 Emarg. Dis. Con

PLANT/LOCATION
 Turbine Deck East Side E1.0



MAGNETIC PARTICLE EXAMINATION REPORT

A. MATERIAL

TYPE C/S FABRICATED PROCESS WELDED CAST ^{Forged} WORKED

GEOMETRY PIPE PLATE ROD OTHER: Con. Shaft

CROSS SECTION THICKNESS 13 MAX INCH MIN 12 INCH SURFACE CONDITION MACHINED GROUND AS FABRICATED OTHER

B. NDE PROCEDURE

NO. 71-2 NO. PO# 310552-26 EQUIPMENT I.I. S/N Y6-C

MATE NO. N/A

TECHNIQUE PRODS YOKE COIL OTHER

CURRENT AC DC HW/DC 10 LB. PLATE 40 LB. PLATE

SPACING

YOKE 12" max PRODS N/A

MATERIALS DRY WET BRAND/DESIGNATION Magnalloy 144

Batch # 83036

SKETCH OR OTHER DETAIL:

Sketch above shows fuzzy indications on con. rod pin

6 con. rod pin a main journal critical areas.

ASSISTED BY J. Pink

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. APPROVALS

NDE 71-2 J. Pink 9/9/55

E. REPORT

J. Pink II 9/9/55

LEVEL DATE

COMPONENT I.D. New Combustion Engine
 S/N 693M
 # 6 Cyl.
 SYSTEM CRANK
 PLANT/LOG# 13431-E



LIQUID PENETRANT EXAMINATION REPORT

A. MATERIAL		TYPE c/s	FABRICATED PROCESS <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> FORGED WORKED	
CROSS SECTION THICKNESS		MAX 13 INCH	MIN 12 INCH	SURFACE CONDITION <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER
GEOMETRY		<input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD	<input checked="" type="checkbox"/> OTHER: <u>Crankshaft</u>	
4. SIZE INCH		TEMP / MAT'L.		366
1/2 G.3		78°F		10-22-83
INSPECTION MATERIALS		BRAND	DESIGNATION	BATCH NO.
1. PRE-CLEANER		Magnaflox	SKC-NE/2C7B	82D119
2. PENETRANT			ZL-22A	83F003
3. EMULSIFIER AND/OR REMOVER			SKC-NE/2C7B	82D119
4. DEVELOPER			SKD-NE	82D111
5. POST EXAMINATION CLEANER			SKC-NE/2C7B	82D119
SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY <p style="text-align: right;"><u>Cyl # G. Con. Rod</u> Journal (critical area)</p> <p>L.P exam as a follow up to M.T.</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	ACT (ACCEPT/REJECT AND COMMENT AS NECESSARY)	
1				
2	None	N/A	No relevant indications	
3	None	"	" " "	
63-4-22		Carl Hassell II 9/9/83		
E. ATTEST	Carl Hassell		II 9/9/83	

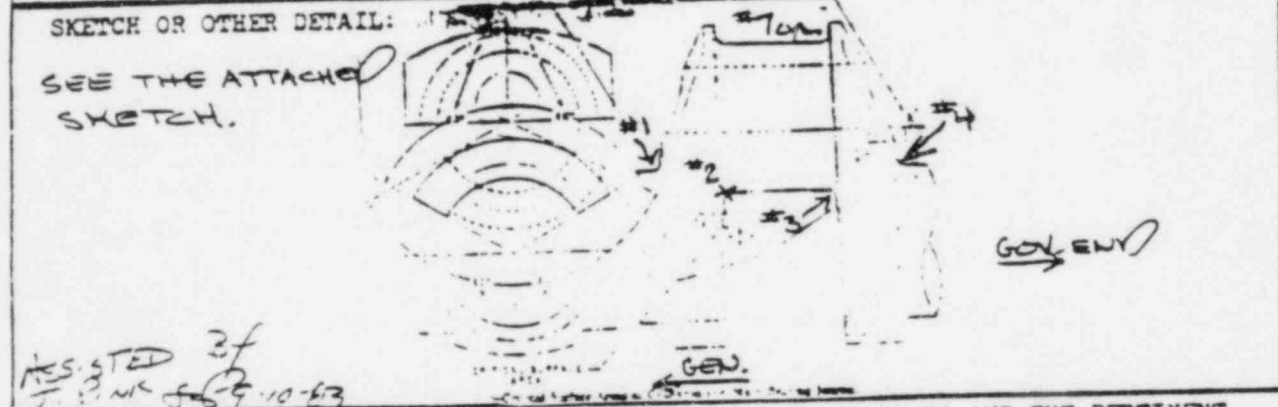
COMPONENT I.D. 1R43
 New Crankshaft 5/16 G3M
 SYSTEM 1R43
 Emergency Disc. Con.
 Turbine Dock E1.65
 PLANT/LOCATION



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 _____ INCH	MIN _____ INCH	SURFACE CONDITION		
				<input checked="" type="checkbox"/> MACHINED	<input type="checkbox"/> GROUNDED	
				<input checked="" type="checkbox"/> AS FABRICATED	<input type="checkbox"/> OTHER	
N. NDE PROCEDURE NO. <u>7.1-2</u>		NO. <u>PO 310552-26</u>		S/N <u>681032</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		
		AMPS. PER IN. <u>1000/5 TURNS</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>		

COMPONENT I.D. NEW CRANKSHAFT
 MAIN BEARING JOURNAL BETWEEN #1 & #2 CYLINDERS
 SYSTEM 1943



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 2 1/2" Lg.	LINEAR SURFACE SCRATCHES	INDICATIONS TO BE L.P. INSPECTED PER 7.1-2, SEE ATTACHED L.P. REPORT
#4	NONE	N/A	NO RELEVANT INDICATIONS
D. APPROVED	N/A 7.1-2		<u>VENNUS RETROWSKI</u> II 9/10/83

E. ATTENT [Signature] II 9/10/83
 LEVEL DATE

PLANT/LOCATION SSEA/TURBINE DECK B'Y'EV



LIQUID PENETRANT EXAMINATION REPORT

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

COMPONENT I.D.
NEW CRANK SHAFT
S/N 693M

J. NDE PROCEDURE No. 6.3/7.1-2	TEMPERATURE / MAT'L. TEMP. 80°F	MAT'L. NO. 366	NO. 20-310552-26
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 # 7 & 8
LP INSPECTION AS FOLLOW UP TO METHOD MT
SEE ATTACHED SKETCH

ASSISTED BY JOHN FINK 9-10-83

SYSTEM
IR-43*

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

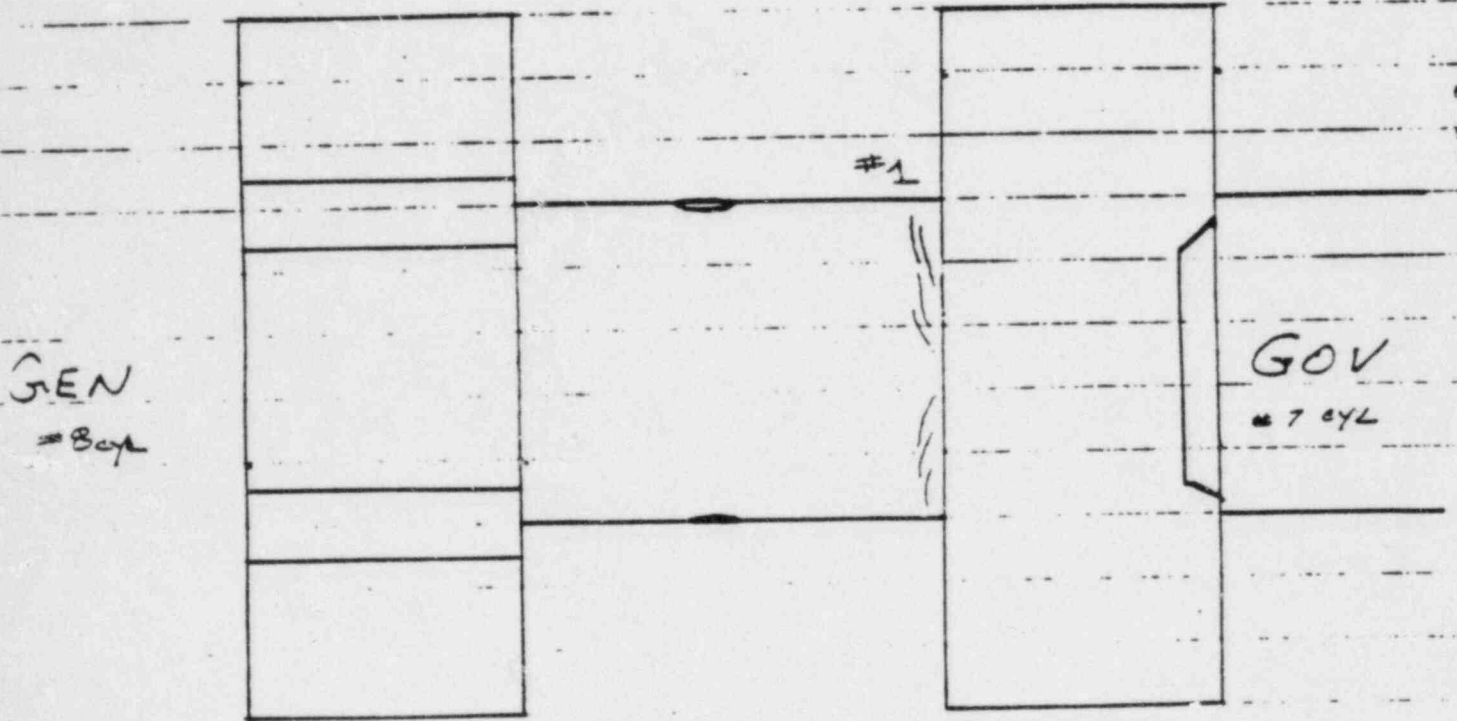
LOCATION	SIZE (INCHES)	DESCRIPTION	ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY)
1 #1	NONE	N/A	NO RELEVANT INDICATIONS
2 N/A	N/A	N/A	N/A
3 N/A	N/A	N/A	N/A
4 N/A	N/A	N/A	N/A
NDE 7.1-2 + 6.3		PENNIS. PIETROSKI 9/10/83	

PLANT/LOCATION
SWR-1/TURBINE DECK

E. ATTEST

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	C/S	FABRICATED PROCESS	<input type="checkbox"/> WELDED	<input type="checkbox"/> CAST	<input checked="" type="checkbox"/> ^{Field} 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	
	13" INCH	12" INCH		<input type="checkbox"/> AS FABRICATED	<input type="checkbox"/> OTHER	

B. NDE PROCEDURE NO. 7.1-2	NO. P.C. = 310552-26	EQUIPMENT I.I. S/N 76-C
		MATE NO. N/A

TECHNIQUE	<input type="checkbox"/> PRODS	<input checked="" type="checkbox"/> YOKE	<input type="checkbox"/> COIL	<input type="checkbox"/> OTHER
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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
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AMPS	N/A	SPACING	
AMPS PER INCH	N/A	YOKE	12" max
		PRODS	N/A

MATERIALS	<input type="checkbox"/> DRY	<input checked="" type="checkbox"/> WET	BRAND/DESIGNATION	Magnalloy 14A
				Batch # 83C036

SKETCH OR OTHER DETAIL:

ASSISTED BY
D.J. PINE
7/9-9-83

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	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 NDE 7.1-2. See attached L.P. reports
#3			
#4	none	N/A	No relevant indications
	NDE 7.1-2		<i>Richard J. Pink</i> 9/9/83

INSPECTOR	<i>Richard J. Pink</i>	LEVEL	II	DATE	9/9/83
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COMPONENT I.D. Name *Crankshaft*
 AT 7 CYL.
 S/N *693M*
 SYSTEM *1 R413*
 PART/LOCATION *73-631-E*



LIQUID PENETRANT EXAMINATION REPORT

A. MATERIAL		TYPE	FABRICATED PROCESS		
		GEOMETRY	<input type="checkbox"/> PIPE	<input type="checkbox"/> PLATE	<input type="checkbox"/> ROD
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. NDE PROCEDURE G.3	TEMP. 78°F	DATE 10-22-83	NO. 366	310552-26
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INSPECTION MATERIALS	BRAND	DESIGNATION	BATCH NO.
1. PRE-CLEANER	Magnaflux	SKC-NF/3C7B	82D119
2. PENETRANT		SKL-22A	83F003
3. EMULSIFIER AND/OR REMOVER		SKC-NF/3C-7B	82D119
4. DEVELOPER		SKD-NF	82D111
5. POST EXAMINATION CLEANER		SKC-NF/3C7B	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 <i>See sketch</i>	<i>N/A</i>	<i>N/A</i>	<i>Accept (No relevant inds)</i>
2			
3			
4			
Lilco N.D.E. 3-4-2.2			<i>Carl Howell</i> II 9/9/83
F TEST	<i>Carl Howell</i>		II 9/9/83

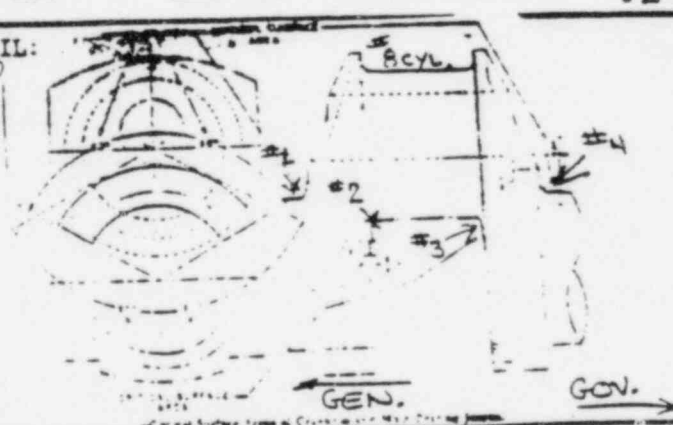
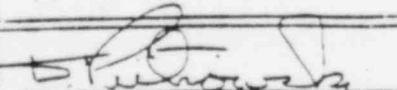
COMPONENT I.D. 1R43
New crankshaft SKV 693M
Cyl. can Rod Pin

SYSTEM 1R43
Energy Dies. Gen

PLANT/LOCATION
Turbine Deck East Side 91.63



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 _____ INCH	MIN _____ INCH	GEOMETRY <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD <input checked="" type="checkbox"/> OTHER: <u>CRANK SHAFT</u>		
E. NDE PROCEDURE NO. <u>7.1-2</u>		PO. # <u>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	<input type="checkbox"/> OTHER	
		AMPS. PER IN. <u>N/A</u>		12" MAX. <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: SEE THE ATTACHED SKETCH  <p>ASSISTED BY J. PINK JTB 9-10-83</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	NONE	N/A	NO RELEVANT INDICATIONS			
#2	1"-5" LB.	BROAD/FUZZY LINEAR INDICATIONS	INDICATIONS TO BE LI. INSPECTED PER 7.1-2, SEE ATTACHED L.P. REPORT			
#3	NONE	N/A	NO RELEVANT INDICATIONS			
#4	NONE	N/A	NO RELEVANT INDICATIONS			
REFERENCE STANDARD		NDE 7.1-2		PENNIS PIETROWSKI II 9/10/83		
ATTEST		 DENNIS PIETROWSKI II		9/10/83 DATE		

COMPONENT I.D. S/N Y6-C
 #8 CYL. CRANKSHAFT JOURNAL
 SYSTEM
 1043K
 SAF-1/FORWARD DECK 6.3' EV.



LIQUID PENETRANT EXAMINATION REPORT

A. MATERIAL	TYPE CARBON STEEL	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 CRANKSHAFT
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

J. HOW PROCESSED NO. 6.3/7.1-2	TEMP / MATH'L. TEMP 80°F	M&TF. NO. 366	NO. 310552-26
INSPECTION MATERIALS		DESIGNATION	BATCH NO.

1. PRE-CLEANER	MAGNAFLUX	SKC-NF/EC-7B	82D119
2. PENETRANT	MAGNAFLUX	EL-224	83F003
3. EMULSIFIER AND/OR REMOVER	MAGNAFLUX	SKL-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.
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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	9-10-03	DENNIS PIETROUSKI II	

E. ATTEST	<i>[Signature]</i>	II	9/10/03
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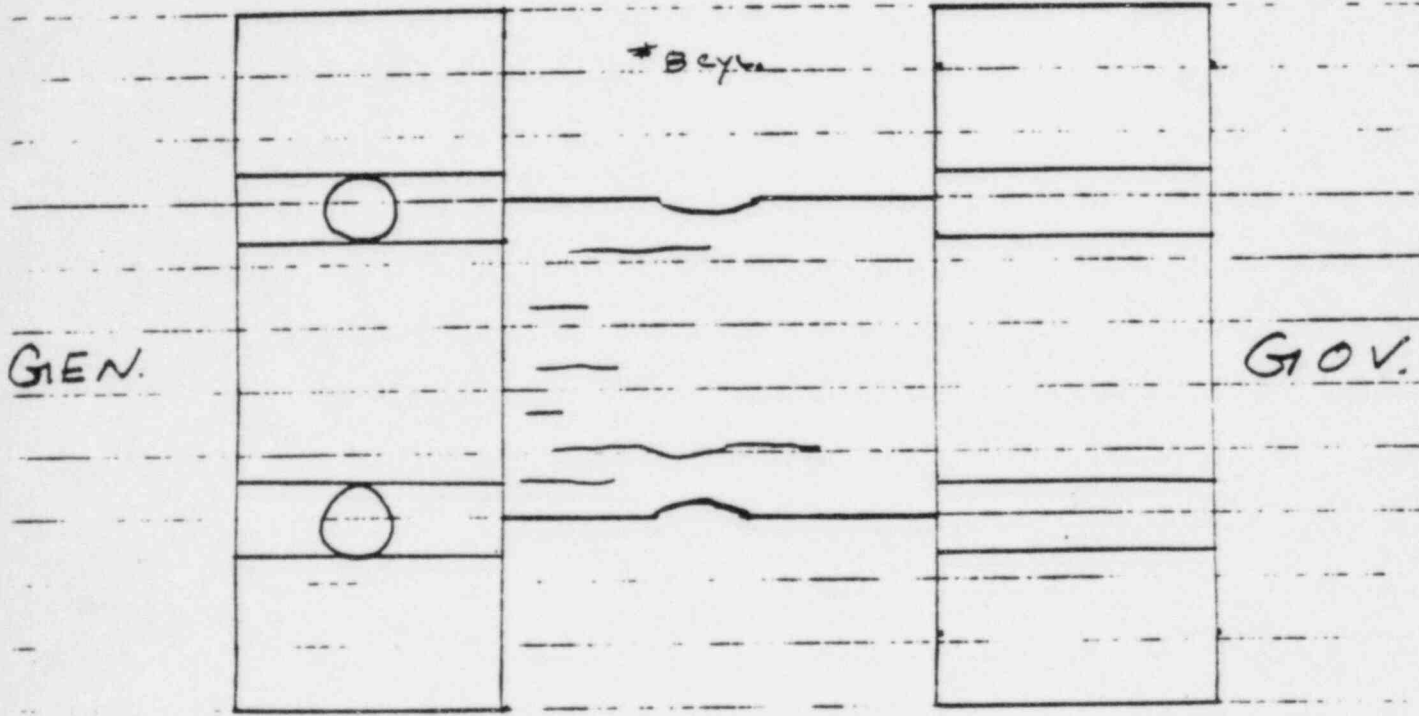
COMPONENT I.D.
NEW CRANKSHAFT

SYSTEM
IR-43*

PLANT/LOCATION
5NRS-1 TURBINE DR

CRANKSHAFT JOURNAL C/L # 0

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 WELDED CAST FORGING WORKED

GEOMETRY PIPE PLATE ROD OTHER: CRANK SHAFT

EDGE THICKNESS 13" HIGH MIN 12" SURFACE CONDITION MACHISED GROUNDED AS FABRICATED OTHER

B. USE PROCEDURE

NO. 7.1-2 MNA/RR NO. PS 310552-26 EQUIPMENT I.D. 5/4 681032 MAKE NO. N/A

TECHNIQUE PROBE FINE COIL OTHER

CURRENT AC DC HW/DC 10 LB. PLATE 40 LB. ...

AMPS. 1000/5 TURNS SPACING N/A VOKES N/A PRODS N/A

MATERIALS DRY WET BRAND/DESIGNATION MAGNAGLO 14A BATCH # 83C036 .27 MC

SKETCH OR OTHER DETAILS:

M.T. INSPECTION PER N/E 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 [signature] 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	NONE	N/A	ACCEPT NO RELEVANT INDICATIONS
#2	"	"	" " "
#3	"	"	" " "
#4	"	"	" " "

D. ACCEPTANCE N/E 7.1-2 PENNIS PIETROWSKI II 9/9/83

E. TESTER [Signature] II 9/9/83

COMPONENT I.D. NEW CRANK SHAFT 1
 CYLINDERS # 1,3,4,5,6 AND 8
 SR # 693M
 SYSTEM 1
 1R43X
 5/3-1 TURBINE RECK 63' E.V.

NEW CRANKSHAFT
S/N 694
PO# 310552-27

Cyl #	# DATA	Location	NDE Method + Initials			
			Yoke	Coil	UT RM	LP N/A
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 N/A
	2	C.R. Journ.	<input checked="" type="checkbox"/> Yoke V.P.	<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 V.P.	<input checked="" type="checkbox"/> Coil AP	<input checked="" type="checkbox"/> UT RM	<input type="checkbox"/> LP N/A
	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 N/A
Cyl #2	1	main Gen Journ.	<input checked="" type="checkbox"/> Yoke V.P.	<input checked="" type="checkbox"/> Coil V.P.	<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 V.P.	<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 V.P.	<input checked="" type="checkbox"/> UT RM	<input checked="" type="checkbox"/> LP RB
	4	main Gov Journ.	<input checked="" type="checkbox"/> Yoke V.P.	<input checked="" type="checkbox"/> Coil V.P.	<input checked="" type="checkbox"/> UT RM	<input type="checkbox"/> LP N/A
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 N/A
	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 V.P.	<input checked="" type="checkbox"/> Coil AP	<input checked="" type="checkbox"/> UT RM	<input type="checkbox"/> LP N/A
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 N/A
	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 N/A
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 N/A
	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 N/A
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 N/A
	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 N/A

No Indications

NEW CRANKSHAFT
 S/N 694
 PO # 310552-27

Cyl #	A T R #	Location	NDE 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 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 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 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 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 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 type="checkbox"/> Coil AP	<input checked="" type="checkbox"/> UT RM	<input checked="" type="checkbox"/> LP RB



MAGNETIC PARTICLE EXAMINATION REPORT

A. MATERIAL

TYPE: C/S

FABRICATED PROCESS: WELDED CAST Forged WORKED

GEOMETRY: PIPE PLATE ROD OTHER: Crank shaft

CROSS SECTION THICKNESS: MAX 13" INCH MIN 12" INCH

SURFACE CONDITION: MACHISED GROUND AS FABRICATED OTHER

B. NDE PROCEDURE

NO. 71-2

MWR/RR NO. PO# 310552-26

EQUIPMENT I.D. S.N. Y6-C

DATE NO. N/A

TECHNIQUE

PRODS YOKE COIL OTHER

CURRENT

AC DC HW/DC

10 lb PLATE 40 lb PLATE

AMPS N/A PROD SPACING

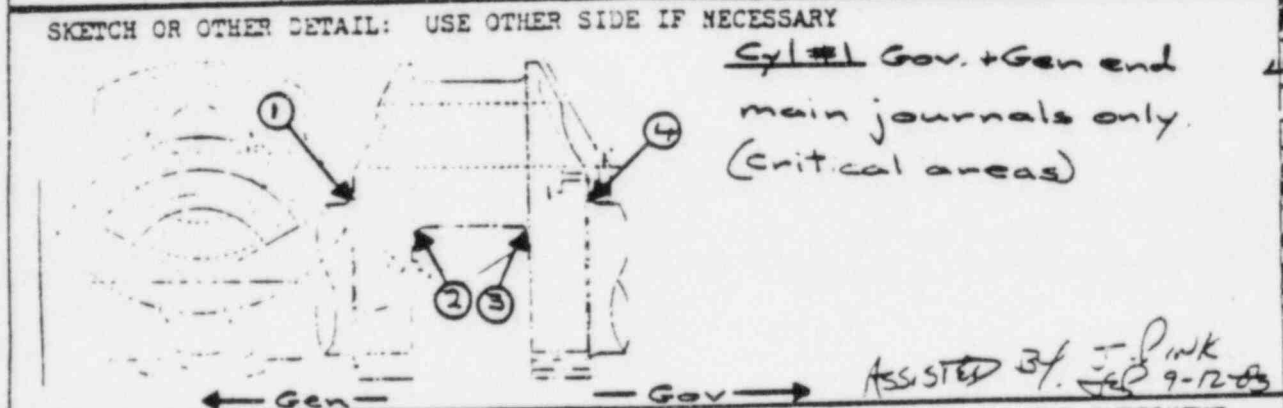
AMPS PER IN. N/A YOKE 12" max PRODS N/A

MATERIALS

DRY WET

BRAND/DESIGNATION: Magnaglo 14A

26ail Batch#835036



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	N/A
②	N/A	N/A	N/A
③	N/A	N/A	N/A
④	N/A	None	N/A

OPERATOR: Carl Hassell

LEVEL: II DATE: 9/12/83

STANDARD: NDE 71-2

RESPONSIBLE PERSON: Carl Hassell LEVEL: II DATE: 9/12/83

COMPONENT I.D. New Crankshaft
 SN: 894
 Cyl #1
 SYSTEM 1 R43
 Magn. Disc Gen
 Turbine Deck E1.63
 PLANT/LOCATION

MAGNETIC PARTICLE EXAMINATION REPORT

A. MATERIAL		TYPE <i>Carbon Steel</i>	FABRICATED PROCESS	<input type="checkbox"/> WELDED	<input type="checkbox"/> CAST	<input checked="" type="checkbox"/> Forged WORKED
CROSS SECTION THICKNESS	MAX <i>13</i> INCH	MIN <i>12</i> INCH	GEOMETRY	<input type="checkbox"/> PIPE	<input type="checkbox"/> PLATE	<input type="checkbox"/> ROD
			<input checked="" type="checkbox"/> OTHER: <i>CRANK SHAFT</i>			
			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. <i>7.1-2</i>	MWR/RR NO. <i>90-310552-27</i>	EQUIPMENT I.D. S.N. <i>Y6-C</i>
		NOTE NO. <i>N/A</i>

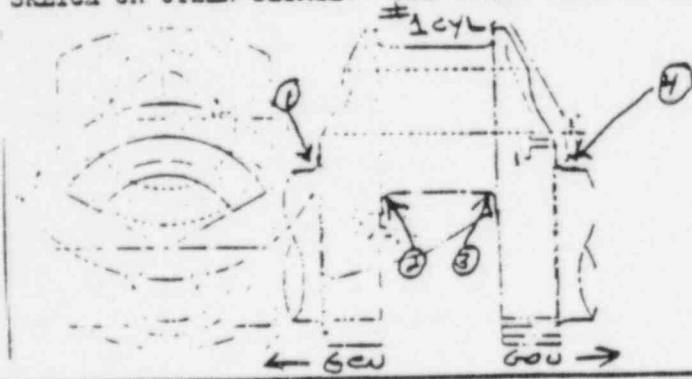
TECHNIQUE	<input type="checkbox"/> PRODS	<input checked="" type="checkbox"/> YOKE	<input type="checkbox"/> COIL	<input type="checkbox"/> OTHER
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CURRENT	<input checked="" type="checkbox"/> AC	<input type="checkbox"/> DC	<input type="checkbox"/> HW/DC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

MATERIALS	<input type="checkbox"/> DRY	<input checked="" type="checkbox"/> WET	BRAND/DESIGNATION <i>MAGNAGLO 14A</i>
			<i>Batch # DC036.27ML</i>

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 <i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>
②	<i>NONE</i>	<i>N/A</i>	<i>NO Relevant Indications</i>
③	<i>NONE</i>	<i>N/A</i>	<i>" " "</i>
4 <i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>

D. ADEQUACY CRITERIA	<i>N/E 7.1-2</i>	OPERATOR LEVEL <i>VICTOR PLATANIA II</i>	DATE <i>7/13/83</i>
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E. ATTEST	<i>[Signature]</i>	<i>II</i>	<i>7/13/83</i>
RESP	LEVEL	DATE	

CYL # 1 New Crank Shaft # 694 1843 Emergency Diesel Gen Turbine Bldg. EL. 63 EAST



MAGNETIC PARTICLE EXAMINATION REPORT

A. MATERIAL
 TYPE C/S FABRICATED PROCESS WELDED CAST WORKED
 GEOMETRY PIPE PLATE ROD OTHER: Crank shaft
 CROSS SECTION THICKNESS 13" MAX INCH 12" MIN INCH SURFACE CONDITION MACHISED GROUND AS FABRICATED OTHER

NDT PROCEDURE NO. 7-1-2 MWR/RR NO. PO# 310552-27 EQUIPMENT I.D. S N 681032 WIRE NO. N/A

TECHNIQUE PRODS YOKE COIL OTHER

CURRENT AC DC HW/DC 10 15 PLATE 40 15 PLATE

AMPS 1000 / 5 turns PROD SPACING Yoke N/A PRODS N/A
 AMPS PER IN. N/A

MATERIALS DRY WET BRAND/DESIGNATION Magnaglo 17A Batch 83036

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY



MT inspection PER NDT 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 COMPLIANCE CRITERIA 7-1-2 OPERATOR [Signature] LEVEL II DATE 9-12-83

E TEST [Signature] LEVEL II DATE 9-12-83

COMPONENT I.D. # 1 cyl.
 NEW Crankshaft 694
 SYSTEM
 1R43
 PLANT/LOCATION
 50B32/Turbine Deck 63' Elev



MAGNETIC PARTICLE EXAMINATION REPORT

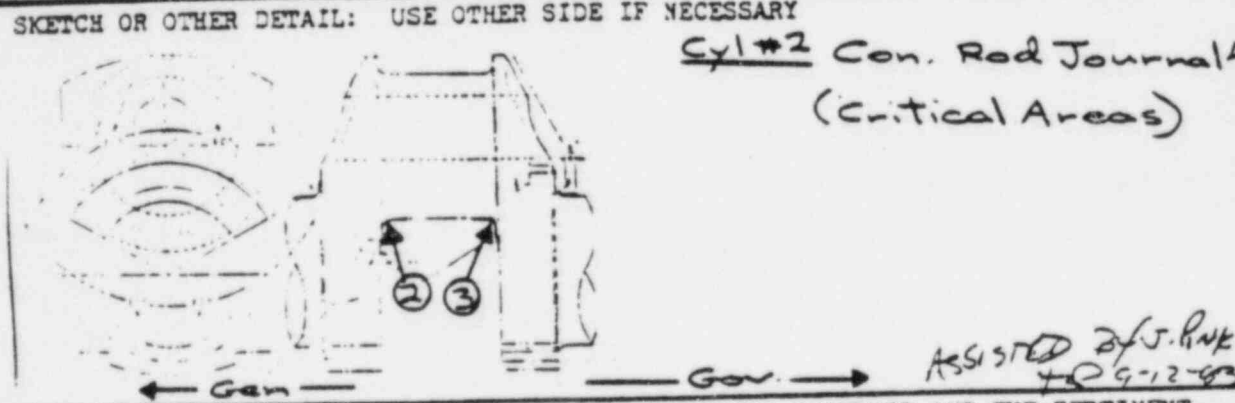
A. MATERIAL
 TYPE: c/s
 FABRICATED PROCESS: WELDED CAST WORKED
 GEOMETRY: PIPE PLATE ROD OTHER: Crankshaft
 CROSS SECTION THICKNESS: 13" INCH MAX
 MIN: 12 INCH
 SURFACE CONDITION: MACHISED GROUND
 AS FABRICATED OTHER

B. NDE PROCEDURE NO. 71-2
MWR/RR NO. POB 310552-27
EQUIPMENT I... S N YG-C
DATE NO. N/A

TECHNIQUE: PRODS YOKE COIL OTHER

CURRENT: AC DC HW/DC
 10 lb PLATE 40 lb PLATE
AMPS N/A **PROD SPACING**
AMPS PER IN. N/A **YOKE** 12" Max **PRODS** N/A

MATERIALS: DRY WET **BRAND/DESIGNATION** Magnaglo 14A
26 mil. Batch #350036



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 N/A	None	N/A	No relevant indications
③ N/A	None	N/A	No relevant indications

D. OPERATOR Carl Howell
LEVEL II **DATE** 9/12/83
NDE 71-2

E. TEST
Carl Howell II 9/12/83
 RESPONSIBLE CERTIFYING LEVEL DATE

COMPONENT I.D. New Crankshaft
 SYSTEM 1R43
 Cyl #2
 Emerg. Dies. Gen.

TURBINE DECK E1 C3
 PLANT/LOCATION

WELDING PROCESS QUALIFICATION REPORT

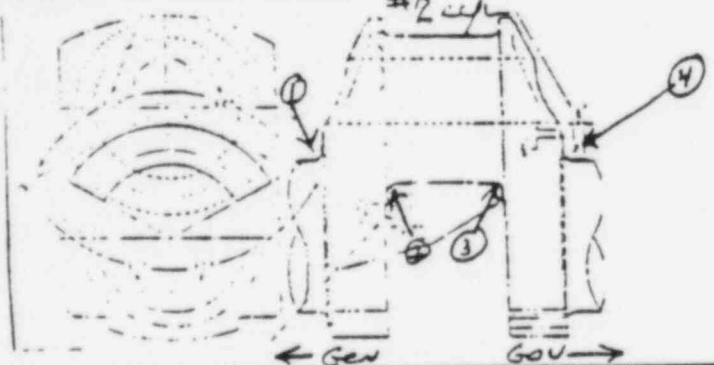
A. MATERIAL	TYPE <i>Creabon Steel</i>	FABRICATED PROCESS	<input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> Forged WORKED
	GEOMETRY	<input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD <input checked="" type="checkbox"/> OTHER: <i>CRANK SHAFT</i>	
CROSS SECTION THICKNESS	MAX <i>13</i> INCH	MIN <i>12</i> INCH	SURFACE CONDITION: <input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROUNDED <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER

B. WDE PROCEDURE NO. <i>7.1-2</i>	MWR/RR NO. <i>90-30552-27</i>	EQUIPMENT ID: <i>S/N: 46-C</i>
		DATE NO. <i>N/A</i>

TECHNIQUE	<input type="checkbox"/> PRODS <input checked="" type="checkbox"/> YOKE <input type="checkbox"/> COLL <input type="checkbox"/> OTHER
CURRENT	<input checked="" type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> HW/DC
AMPS <i>N/A</i>	PROD SPACING
AMPS PER IN. <i>N/A</i>	YOKE <i>6"</i> PRODS <i>N/A</i>

MATERIALS	<input type="checkbox"/> DRY <input checked="" type="checkbox"/> WET	BRAND/DESIGNATION <i>EMAG 14A</i>
		BATCH # <i>93C036.27ML</i>

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
3	N/A	N/A	N/A
④	NONE	N/A	NO relevant Indications

D. ACCEPTANCE CRITERIA	<i>N/E 7.1-2</i>	OPERATOR <i>Victor PLATANIA</i>
		LEVEL <i>II</i> DATE <i>9/13/83</i>

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

CYL #2 New Crankshaft # 654
#1843 Emergency Diesel Governor Top
Turbine RIDG Fl. 63 EAST

MAGNETIC PARTICLE EXAMINATION REPORT

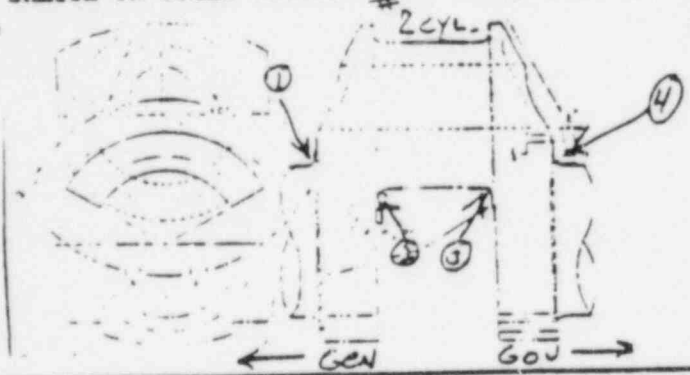
A. MATERIAL		TYPE Carbon Steel	FABRICATED PROCESS	<input type="checkbox"/> WELDED	<input type="checkbox"/> CAST	<input checked="" type="checkbox"/> WORKED <small>Forged</small>
CROSS SECTION THICKNESS		MAX 1/3 INCH	MIN 1/2 INCH	SURFACE CONDITION		
				<input checked="" type="checkbox"/> MACHINED	<input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

B. WDE PROCEDURE NO. 7.1-2	MWRT/RR 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	PROD SPACING		
	AMPS PER IN. N/A	YOKE N/A	PRODS N/A	

MATERIALS	<input type="checkbox"/> DRY	<input checked="" type="checkbox"/> WET	BRAND/DESIGNATION	MAGNAGLO 14A Batch # 83C036.27HL
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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/E 7.1-2	OPERATOR	VICTOR PLATANIA
		LEVEL	II
		DATE	9/13/83

ATTEST	<i>Victor Platania</i>	II	9/13/83
RESPONSIBLE INDICATING	LEVEL	DATE	

#2 CYL. New Crankshaft #694
18N3 EDG

Turbine Bldg. FL 63 EAST



MAGNETIC PARTICLE EXAMINATION REPORT

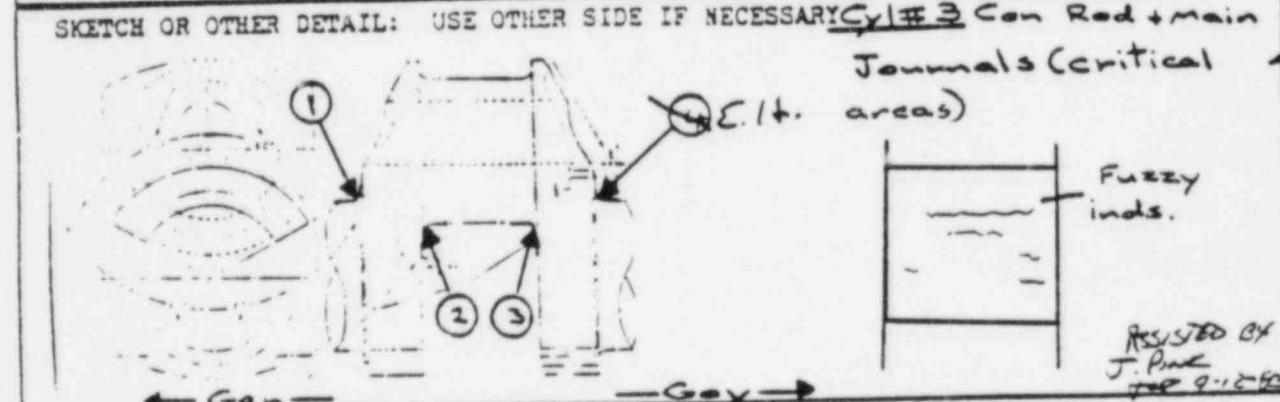
A. MATERIAL
 TYPE: c/s
 FABRICATED PROCESS: WELDED CAST ^{Forged}WORKED
 GEOMETRY: PIPE PLATE ROD OTHER: Crankshaft
 CROSS SECTION THICKNESS: MAX 13" INCH MIN 12 INCH
 SURFACE CONDITION: MACHINED GROUND
 AS FABRICATED OTHER

B. NDE PROCEDURE
 NO. 71-2 MWR/RR NO. PO# 310552-27 EQUIPMENT I.D. S N YG-C
 WIRE NO. N/A

TECHNIQUE
 PRODS YOKE COIL OTHER

CURRENT
 AC DC HW/DC 10 lb PLATE 40 lb PLATE
 AMPS N/A PROD SPACING
 AMPS PER IN. N/A YOKE 12" Max PRODS N/A

MATERIALS
 DRY WET BRAND/DESIGNATION Magnaglob 17A
26 mil. Patch



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 N/A</u>	<u>N/A</u>	<u>No relevant indications</u>
②	} <u>3/4 to 3"</u>	<u>Linear Indications</u>	<u>Follow up LP required</u>
③		<u>"</u>	<u>"</u>
④	<u>E.H.</u>	<u>N/A</u>	<u>no relevant indications</u>

D. ACCEPTANCE CRITERIA
71-2 OPERATOR Carl Hassell
 LEVEL II DATE 9/12/83

ATTEST
Carl Hassell LEVEL II DATE 9/12/83

COMPONENT I.D. New Crankshaft
 s/n 694
 CY #3
 SYSTEM 1R43
 Emerg. Dies Gen

PLANT/LOCATION
 Turbine Deck EIC3

A. MATERIAL		TYPE <i>Carbon Steel</i>	FABRICATED PROCESS	<input type="checkbox"/> WELDED <input checked="" type="checkbox"/> CAST <input checked="" type="checkbox"/> Forged WORKED
CROSS SECTION THICKNESS		MAX <i>1/3</i> INCH	MIN <i>1/2</i> INCH	SURFACE CONDITION
				<input checked="" type="checkbox"/> MACHINED <input type="checkbox"/> GROINED <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER
B. WDE PROCEDURE NO. <i>7.1-2</i>		MWR/RR NO. <i>90-310552-Z7</i>	EQUIPMENT I.D.S./N. <i>Y6-C</i> MATE NO. <i>N/A</i>	
TECHNIQUE	<input type="checkbox"/> PRODS	<input checked="" type="checkbox"/> YOKE	<input type="checkbox"/> COLL	<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 <i>N/A</i>	PROD SPACING	YOKE <i>6"</i>	PRODS <i>N/A</i>
	AMPS PER IN. <i>N/A</i>			
MATERIALS	<input type="checkbox"/> DRY	<input checked="" type="checkbox"/> WET	BRAND/DESIGNATION <i>MACWAG 14A</i> <i>CATCH # 83C03C.2794</i>	
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	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	
2	↓	↓	<i>N/A</i>	
3	↓	↓	<i>N/A</i>	
④	<i>NONE</i>	↓	<i>NO Relevant Indications Noted</i>	
D. ACCEPTANCE CRITERIA	<i>N/A 7.1-2</i>		OPERATOR <i>Victor Platania</i>	DATE <i>9/13/83</i>
E. ATTEST	<i>[Signature]</i>		LEVEL <i>II</i>	DATE <i>9/13/83</i>
	RESPONSIBLE CERTIFIED PERSONNEL		LEVEL	DATE

Cyl #3 New Crankshaft #651
 #1493 Emergency Diesel Generator
 Turbine #116 #1 #2 #3 #4 #5 #6 #7 #8 #9 #10 #11 #12 #13 #14 #15 #16 #17 #18 #19 #20 #21 #22 #23 #24 #25 #26 #27 #28 #29 #30 #31 #32 #33 #34 #35 #36 #37 #38 #39 #40 #41 #42 #43 #44 #45 #46 #47 #48 #49 #50 #51 #52 #53 #54 #55 #56 #57 #58 #59 #60 #61 #62 #63 #64 #65 #66 #67 #68 #69 #70 #71 #72 #73 #74 #75 #76 #77 #78 #79 #80 #81 #82 #83 #84 #85 #86 #87 #88 #89 #90 #91 #92 #93 #94 #95 #96 #97 #98 #99 #100

A. MATERIAL

TYPE Creban Steel FABRICATED PROCESS: WELDED CAST Forged WORKED

GEOMETRY: PIPE PLATE ROD OTHER: CRANK SHAFT

CROSS SECTION THICKNESS: MAX 13 INCH, MIN 12 INCH

SURFACE CONDITION: MACHINED GROUND? AS FABRICATED OTHER

B. NDE PROCEDURE

NO. 7.1-2 MWR/RR NO. PO #310552-27 EQUIPMENT ID: S/N: Y6-C

TECHNIQUE: PRODS YOKE COIL OTHER

CURRENT: AC DC HW/DC

AMPS: N/A PROD SPACING: 6" PRODS: N/A

AMPS PER IN.: N/A YOKE: 6"

MATERIALS

DRY WET BRAND/DESIGNATION: FRAGWAG 14A

BATCH: #J3C036.27 mil

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 Found
2	N/A	"	N/A
3	"	"	N/A
④	NONE	"	NO Relevant Indications Found

D. ACCEPTANCE CRITERIA

NDE 7.1-2

OPERATOR: VICTOR PLATANIA DATE: 9/13/83

LEVEL: II

ATTEST: [Signature] LEVEL: II DATE: 9/13/83

RESPONSIBLE CERTIFIED PERSONNEL

CYL #7 NEW CRANKSHAFT # 6941 1243 EDG

TURBINE RIDG. EL. 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
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
6.3		TEMP 72°F	366 10-22-83 PO# 310552-27
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 # 1
 NEW CRANKSHAFT SN 694
 SYSTEM EMERG. Dies. GEN
 1 Leaf/LOCATION SNPS-4 Turbine Deck ENST SIDE EL-6



MAGNETIC PARTICLE EXAMINATION REPORT

A. MATERIAL

TYPE 4/5 FABRICATED PROCESS: WELDED CAST Forging WORKED

GEOMETRY: PIPE PLATE ROD OTHER: CRANK SHAFT

CROSS SECTION THICKNESS: MAX 13" INCH MIN 12" INCH

SURFACE CONDITION: MACHINED GROUND AS FABRICATED OTHER

NDE PROCEDURE NO. 71-2 STANDARD NO. ASME 310552-27 EQUIPMENT: S N 681032 DATE NO. N/A

TECHNIQUE: PRODS YOKE COIL OTHER

CURRENT: AC DC HW/DC 10 15 PLATE 40 15 PLATE

AMPS 1000/5 TURNS PROD SPACING YOKE N/A PRODS N/A
 AMPS PER IN. _____

MATERIALS: DRY WET BRAND/DESIGNATION MAGNAGLO 14A BATCH 83C036 .27 mil.

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY

#304
MT INSPECTION PER NDE 712
OF FOLLOWING CYLINDER WERE
FOUND SAT.
CYLINDER #3

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 [Signature] DATE 9-12-83

TEST: [Signature] LEVEL II DATE 9-12-83

5: COMPONENT I.D. #3 CYL.
 694
 1 SYSTEM
 1RY3
 5NR2 TURBINE DECK 63 ELEV
 PLANT/LOCATION



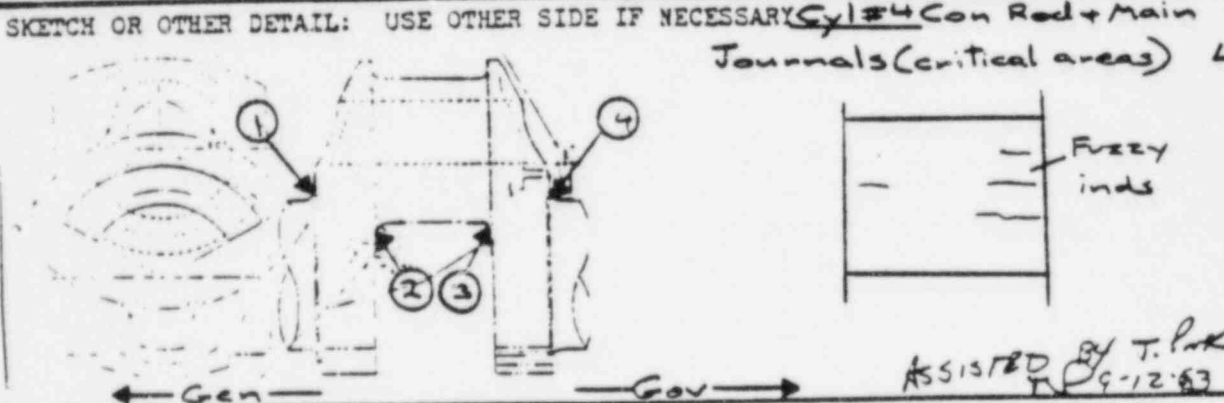
MAGNETIC PARTICLE EXAMINATION REPORT

A. MATERIAL	TYPE	<u>C/S</u>	FABRICATED PROCESS	<input type="checkbox"/> WELDED	<input type="checkbox"/> CAST	<input checked="" type="checkbox"/> <u>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	MIN	SURFACE CONDITION	<input checked="" type="checkbox"/> MACHINED	<input type="checkbox"/> GROUND	
	<u>13</u> INCH	<u>12</u> INCH		<input checked="" type="checkbox"/> AS FABRICATED	<input type="checkbox"/> OTHER	

STANDARD PROCEDURE NO.	<u>7.1-2</u>	HW/RR NO.	<u>POB 30552-27</u>	EQUIPMENT I.D. S.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	YOKE <u>12" max</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>magnaglo 14A</u>
				<u>26 mi. Batch #53036</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>1/2 to 3"</u>	<u>Linear Indications</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. ADVANCE DIA	<u>N/E 7.1-2</u>	OPERATOR	<u>Carl Hassell</u>
		LEVEL	<u>II</u>
		DATE	<u>9/13/83</u>

E. ST	<u>Carl Hassell</u>	<u>II</u>	<u>9/12/83</u>
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COMPONENT I.D. New Crankshaft
Cyl #4

SYSTEM 1843
Engine Dies Gen

PLANT ACTION
Turbine Deck E153



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
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>	MANUFACTURER NO. <u>Q2#310552-27</u>	EQUIPMENT NO. <u>681032</u>	DATE <u>N/A</u>
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TECHNIQUE	<input type="checkbox"/> PRODS	<input type="checkbox"/> YOKE	<input checked="" type="checkbox"/> COIL	<input type="checkbox"/> OTHER
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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
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AMPS <u>1000 / 5 turns</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>	RATCH <u>83C036</u>	<u>.27 ML.</u>
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SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY



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

CYLINDER # 4

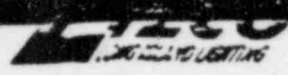
C. EVALUATION REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE

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 CRITERIA	<u>71-2</u>	OPERATOR <u>[Signature]</u>	DATE <u>9-12-83</u>
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ATTEST	<u>[Signature]</u>	DATE <u>9-12-83</u>
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NEW CRANK SHAFT 69Y
 SYSTEM
 1843
 5A52/Turbine Deck 63FT



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
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	

J. NDE PROCEDURE	TEMP / MAT'L.	NO. 366	PO 910552-24
6.3	72° F	10-22-83	

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	83C042
5. POST EXAMINATION CLEANER		SKC-NF/2C-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 #4 CONNECTING ROD JOURNAL

C. EVALUATION	REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE.
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LOCATION	SIZE (INCHES)	DESCRIPTION	ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY)
1 SEE SKETCH	NONE	N/A	ACCEPT (NO RELEVANT INDS)
2			
3			
4			
L1160 NDE 63.4 2.2			Rodney J. Bower II 9/12/83

E. ATTEST	Rodney J. Bower	II	9/12/83
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COMPONENT I.D. 1R43 #4 CYL #4
 NEW CRANK SHAFT S/N: 699
 SYSTEM
 EMERG. DISG. GEN.
 PLANT/LOCATION
 SNPS-1
 TUBING DECK EAST SIDE ETC



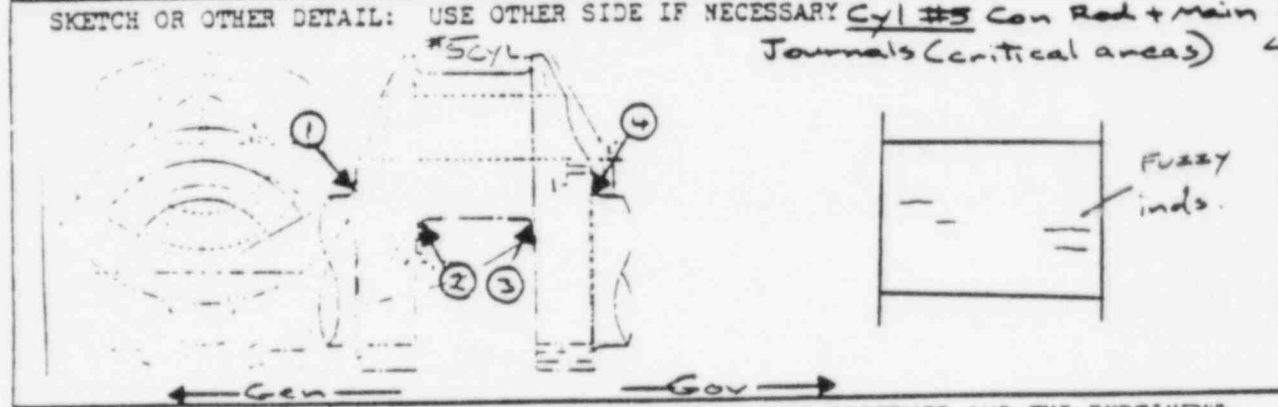
MAGNETIC PARTICLE EXAMINATION REPORT

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

NDT PROCEDURE NO. <u>71-2</u>	MANUAL <u>NO. 310552-27</u>	EQUIPMENT <u>SN Y-G-C</u> DATE NO. <u>N/A</u>
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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			
AMPC. 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>26in Batch #83C03G</u>
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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" to 2"	Linear Indications	Follow-up LP required
③		"	"
④	None	N/A	No relevant indications
D. ACCEPTANCE CRITERIA	<u>71-2</u>	OPERATOR <u>Carl Howell</u> LEVEL <u>II</u>	DATE <u>9/12/83</u>

E. ATTEST

COMPONENT I.D. New Crankshaft
 Cyl #5
 Engng Div Gen.
 ITEM 1 R 4
 TURBINE/LOCATION
 Turbine Deck (E.I.C.)



MAGNETIC PARTICLE EXAMINATION REPORT

COMPONENT I.D. # 5 cyl.
 NEW CRANK SHAFT 694
 SYSTEM
 IR43
 SNR52 Turbine Deck 63E4

A. MATERIAL

TYPE 9/5 FABRICATED PROCESS: WELDED CAST Forging WORKED

GEOMETRY: PIPE PLATE ROD OTHER: CRANK SHAFT

CROSS SECTION THICKNESS: MAX 13" INCH MIN 12" INCH

SURFACE CONDITION: MACHINED GROUND AS FABRICATED OTHER

NDT PROCEDURE NO. 71-2 MWT/PT NO. PO 30552-27 EQUIPMENT I.D. S.N. 681032 MAKE NO. N/A

TECHNIQUE: PRODS YOKE COIL OTHER

CURRENT: AC DC HW/DC 10 15 PLATE 40 15 PLATE

AMPS 1000/5 turns PROD SPACING: YOKE N/A PROCS N/A

MATERIALS: DRY WET BRAND/DESIGNATION: MAGNAGLO 14A BATCH P3C036 .27 ML

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY
 *5 cyl.
 MT INSPECTION PER NDE 7.12 OF THE FOLLOWING CYLINDER WAS FOUND SAT.



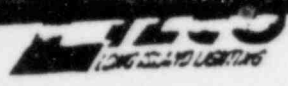
CYLINDER # 5

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)
#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. ACQUISITION DATA 71-2 OPERATOR [Signature] LEVEL II DATE 9-12-83

E. ATTEST [Signature] LEVEL II DATE 9-12-83



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
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
		GEOMETRY <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD	<input checked="" type="checkbox"/> OTHER: CRANK SHAFT

B. NON PROCEDURE	TEMP. / MACH. L.	366	PO 30552-27
6.3	72° F	10-22-83	

INSPECTION MATERIALS	BRAND	DESIGNATION	BATCH NO.
1. PRE-CLEANER	MAGNAFLUX	SKC-NF/ZC-7B	820119
2. PENETRANT		ZL-22A	83 F003
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 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	LILCO NAE 63.4.2.2		Rodney J. Borne II 9/12/83

E. TEST	Rodney J. Borne	II	9/12/83
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E. COMPONENT I.D. 1.243 #5 CYL. SYSTEM
 NEW CRANK SHAFT 9 IN 694
 EMERG. ALTS. GEN
 PLANT/LOCATION
 SUPS-1
 TURBINE DECK EAST SIDE BLEG



MAGNETIC PARTICLE EXAMINATION REPORT

A. MATERIAL

TYPE: cls FABRICATED PROCESS: WELDED CAST ~~Forged~~ WORKED

GEOMETRY: PIPE PLATE ROD OTHER: Crank Shaft

CROSS SECTION THICKNESS: MAX 13 INCH MIN 12 INCH

SURFACE CONDITION: MACHINED GROUND AS FABRICATED OTHER

B. NDE PROCEDURE

NO. 7.1-2 MWR/RR NO. PO# 310552-27 EQUIPMENT I.D. S N Y.G.C DATE NO. N/A

TECHNIQUE

PRODS YOKE COIL OTHER

CURRENT

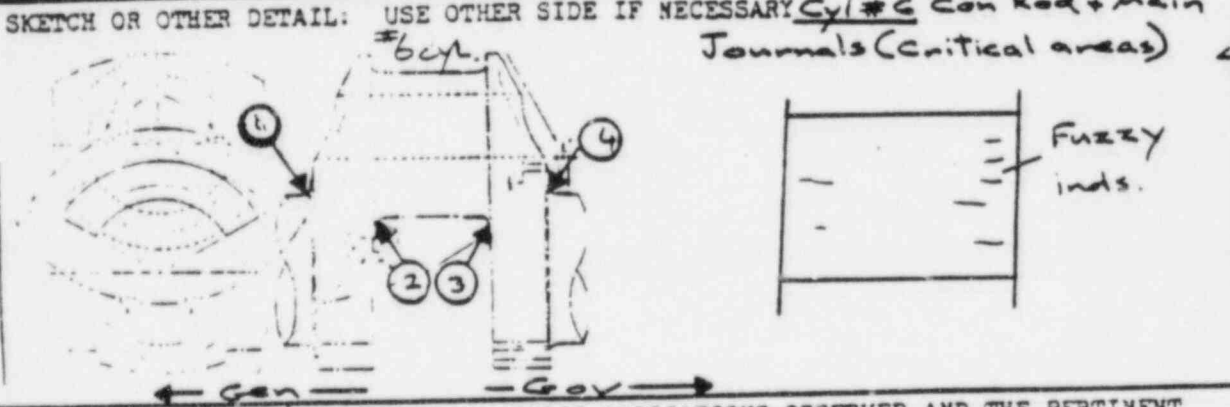
AC DC HW/DC 10 lb PLATE 40 lb PLATE

AMPS N/A PROD SPACING
 AMPS PER IN. N/A YOKE 12" max PRODS N/A

MATERIALS

DRY WET BRAND/DESIGNATION Magnaglo 14A

26% Batch # 930036



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>
④	<u>None</u>	<u>N/A</u>	<u>No relevant indications</u>

D. ACCEPTANCE CRITERIA

7.1-2 OPERATOR Carl Hassell LEVEL II DATE 9/2/83

ATTEST

Carl Hassell LEVEL II DATE 9/2/83

COMPONENT I.D. New Crankshaft
 S/W Gen
 Cyl # 6
 SYSTEM 1R43
 Energy Disc Gen.
 Turbine Deck E1531
 PLANT/LOCATION



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>		MATERIAL NO. <u>PO#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>			

COMPONENT I.D. # 6 CYL.
 SYSTEM 1
 NEW CRANK SHAFT 694
 IR43*

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY

*6 CYL.

MT INSPECTION PER NDE 7.1-2 OF THE FOLLOWING CYLINDER WAS FOUND SAT.

CYLINDER # 6

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	<u>1/4"</u>	ACCEPT NO RELEVANT INDICATIONS
#2	NONE	<u>N/A</u>	ACCEPT NO RELEVANT INDICATIONS
#3	NONE	<u>N/A</u>	ACCEPT NO RELEVANT INDICATIONS
#4	NONE	<u>N/A</u>	ACCEPT NO RELEVANT INDICATIONS

D. ACCEPTANCE CRITERIA 7.1-2

OPERATOR [Signature] LEVEL II DATE 9-12-83

E. ATTEST

[Signature] LEVEL II DATE 9-12-83

PLANT/LOCATION SNPS2 Turbine Deck 63 FL

LIQUID PENETRANT EXAMINATION REPORT

A. MATERIAL
 TYPE: CARBON STEEL
 FABRICATED PROCESS: WELDED CAST WORKED
 GEOMETRY: PIPE PLATE ROD OTHER: CRANK SHAFT
 SURFACE CONDITION: MACHINED GROUND OTHER
 AS FABRICATED

CROSS SECTION THICKNESS: N/A INCH
 MIN: N/A INCH
 TEMP: 72°F
 3. NDE PROCEDURE: 6.3
 10-22-83
 NO. PO 310552-27

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 INDS)
2			
3			
4			

LICO NDE 6.3422

Rodney S. Borne
 II 9/12/83

E. A:

Rodney S. Borne
 II 9/12/83
 LEVEL DATE

COMPONENT I.D. 1R043 #6 CYL.
 NEW CRANK SHAFT SN 694
 SYSTEM
 EMERG. DIST. GEN.

PLANT/LOCATION
 SNPS-1
 Turbine DECK EAST SIDE E665



MAGNETIC PARTICLE EXAMINATION REPORT

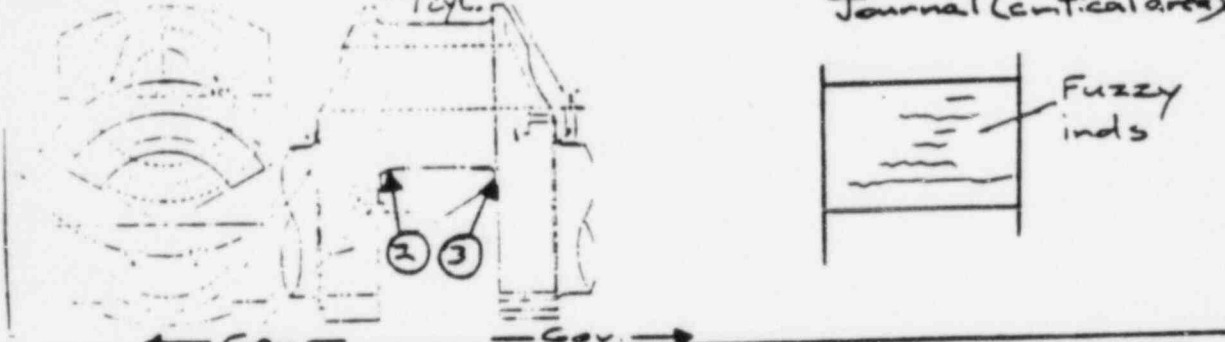
A. MATERIAL		TYPE <i>c/s</i>	FABRICATED PROCESS <input type="checkbox"/> WELDED <input type="checkbox"/> CAST <input checked="" type="checkbox"/> FORGED WORKED
CROSS SECTION THICKNESS		MAX <i>13 INCH</i>	MIN <i>13 INCH</i>
		SURFACE CONDITION <input checked="" type="checkbox"/> MACHLED <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> AS FABRICATED <input type="checkbox"/> OTHER	GEOMETRY <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD <input checked="" type="checkbox"/> OTHER: <i>Con Rod</i>

NDE PROCEDURE NO. <i>71-2</i>	HWY/RR NO. <i>RD# 310552-27</i>	EQUIPMENT I.D. S N <i>YG-C</i> DATE NO. <i>NA</i>
-------------------------------	---------------------------------	--

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

MATERIALS	<input type="checkbox"/> DRY	<input checked="" type="checkbox"/> WET	BRAND/DESIGNATION <i>magnaglo 10A</i>
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SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY *Cyl #7 Con. Rod. Journal (critical area)*



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		"	" " "
4			

D. COMPLIANCE CRITERIA	<i>71-2</i>	OPERATOR LEVEL <i>Carl Hassell</i> <i>II</i> DATE <i>9/13/82</i>
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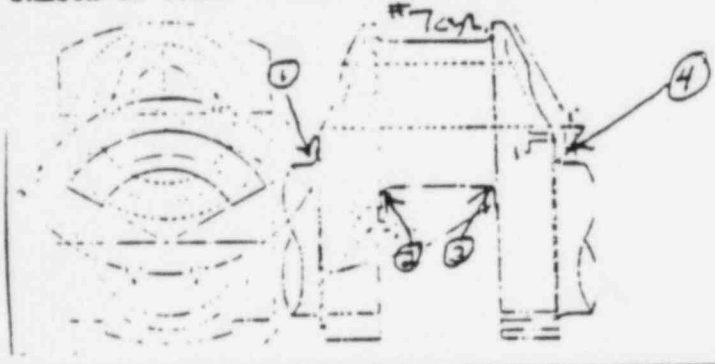
E. ATTEST	<i>Carl Hassell</i>	<i>II</i>	<i>9/13/82</i>
RESP. FOR CERTIFIED	LEVEL	DATE	

COMPONENT I.D. New Crankshaft 1
 S/N 694
 Cyl #7
 SYSTEM 1R43
 Emerg. Dies Can
 Turbine Bid. E1C31
 PLANT/LOCATION

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>
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	
W. 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 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>NET 7.1-2</u>	OPERATOR <u>VICTOR PLATANIA</u>	DATE <u>9/13/83</u>
LEVEL	<u>II</u>	LEVEL	DATE

ATTEST [Signature] II 9/13/83
RESPONSIBLE CERTIFIED _____ LEVEL _____ DATE _____

C.Y. #7 new Crank Shaft - 2694
1983 Emergency Diesel Generator
Turbin RIX Et. 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
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
		GEOMETRY <input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD	<input checked="" type="checkbox"/> OTHER: CRANK SHAFT

4. NDE PROCEDURE No. 6.3	TEMPERATURE / HLT'L. TEMP. 72°F	366 10-22-83	NO. PO310552-27
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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 FOLLOW UP 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			
LILCO NDE 6.3-42.2			Rodney S. Bonner II 9/12/83

TEST
 Rodney S. Bonner II 9/12/83

COMPONENT I.D. 1243 #7 cyl.
 NEW CRANKSHAFT S/N 694
 SYSTEM
 Emerg. Dir. Gen.
 PLANT/LOCATION
 SNPS-1
 TURBINE DEPT ENSTRIDE ELG

C-32-52



MAGNETIC PARTICLE EXAMINATION REPORT

A. MATERIAL

TYPE: C/S

FABRICATED PROCESS: WELDED CAST Forged WORKED

GEOMETRY: PIPE PLATE ROD OTHER: Crank shaft

CROSS SECTION THICKNESS: 13 INCH

MAX: 13 INCH

MLY: 12 INCH

SURFACE CONDITION: MACHISED GROUND AS FABRICATED OTHER

NDE PROCEDURE NO. 7.1-2

MWR/RR PO# 30552-27

EQUIPMENT NO. Y6-C

DATE NO. N/A

TECHNIQUE: PRODS YOKE COIL OTHER

CURRENT: AC DC HW/DC

10 LB PLATE 43 LB PLATE

AMPS: N/A

PROD SPACING: N/A

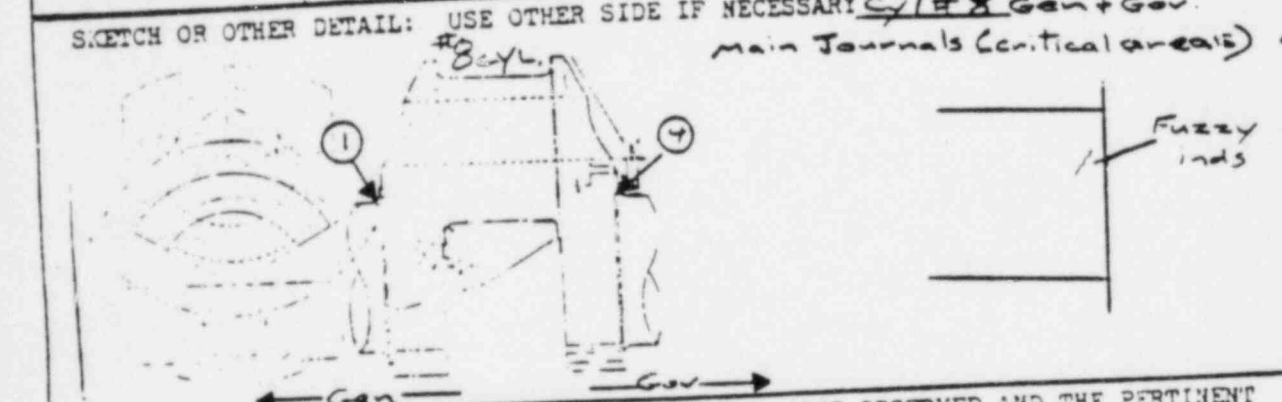
YOKE: 12" max

PRODS: N/A

MATERIALS: DRY WET

BRAND/DESIGNATION: Magnaglo 14A

26 mi Batch # 836036



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 up LP required

D. ACCEPTANCE CRITERIA

7.1-2

OPERATOR: Earl Hassell

LEVEL: II

DATE: 9/12/83

E. ATTEST

Earl Hassell

LEVEL: II

DATE: 9/12/83

COMPONENT I.D. New Crankshaft

Cyl # 8

SYSTEM IR45

Emerg Discs Gen

Turbine Deck E1 C5

LANE/LOCATION

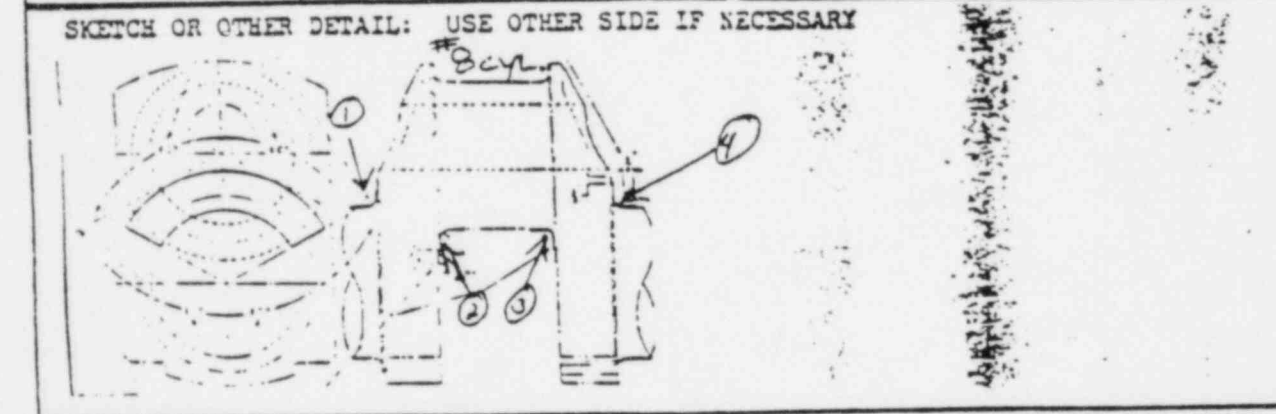
MAGNETIC PARTICLE EXAMINATION REPORT

A. MATERIAL	TYPE <i>Crescent Steel</i>	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 <i>13</i> INCH	MIN <i>12</i> 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. <i>7.1-2</i>	MWR/RR NO. <i>PO#310552-27</i>	EQUIPMENT I.D. S/N: <i>Y6-C</i>
		DATE NO. <i>N/A</i>

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"/> EW/DC
	AMPS <i>N/A</i> PROD SPACING <i>N/A</i>
	AMPS PER IN. <i>N/A</i> YOKE <i>6"</i> PRODS <i>N/A</i>

MATERIALS	<input type="checkbox"/> DRY <input checked="" type="checkbox"/> WET	BRAND/DESIGNATION: <i>MAGWAGLO 14A</i>
		<i>BAR#P3C036.27ML</i>



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>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>
②	<i>NONE</i>	<i>N/A</i>	<i>NO RELEVANT INDICATIONS</i>
③	<i>NONE</i>	<i>N/A</i>	<i>NO RELEVANT INDICATIONS</i>
4 <i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>

D. ACCEPTANCE CRITERIA	<i>NP 7.1-2</i>	OPERATOR <i>VICTOR PLATANIA</i>
		LEVEL <i>II</i> DATE <i>9/13/83</i>

E. ATTEST	<i>[Signature]</i>	<i>[Signature]</i>	<i>9/12/83</i>
	RESPONSIBLE CERTIFIED PERSONNEL	LEVEL	DATE

CYL #8 New Crankshaft #6511 112Y3 Emergency Diesel Generator Turbine B106 E1.23 405



MAGNETIC PARTICLE EXAMINATION REPORT

A. MATERIAL

TYPE C/S FABRICATED PROCESS: WELDED CAST WORKED Forgings

GEOMETRY: PIPE PLATE ROD OTHER: HAIR

CROSS SECTION THICKNESS: MAX 13" INCH MIN 12" INCH

SURFACE CONDITION: MACHINED GROUND
 AS FABRICATED OTHER

NO. NDE PROCEDURE NO. 71-2 MNR/PR NO. 310552-27 EQUIPMENT I.D. S.N. 681032
 DATE NO. N/A

TECHNIQUE: PRODS YOKE COIL OTHER

CURRENT: AC DC HW/DC 10 15 PLATE 40 15 PLATE


AMPS 1000/1500 PROD SPACING YOKE N/A PRODS N/A
 AMPS PER IN. N/A

MATERIALS: DRY WET BRAND/DESIGNATION MAGNAGLO 14A
BATCH 83C036
.27 ML.

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY

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

CYLINDER # 8



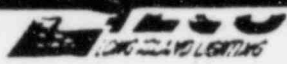
C. EVALUATION REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE

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 71-2 OPERATOR [Signature] LEVEL II DATE 9-12-83

E. ATTEST [Signature] LEVEL II DATE 9-12-83

COMPONENT I.D. # 8 CYL.
 NEW YORK STATE 694
 SYSTEM
 IR45
 PLANT/LOCATION
 5N052/TURBINE DECK 63EEL



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
CROSS SECTION THICKNESS		MAX N/A INCH	MIN N/A INCH	SURFACE CONDITION		
		GEOMETRY		<input type="checkbox"/> PIPE	<input type="checkbox"/> PLATE	<input type="checkbox"/> ROD
				<input checked="" type="checkbox"/> MACHINED	<input type="checkbox"/> GROUND	<input type="checkbox"/> OTHER: CRANK SHAFT
				<input type="checkbox"/> AS FABRICATED	<input type="checkbox"/> OTHER	
4. NDL DISCREPANCY		SURFACE / INT'L. TEMP.		366	10-22-83	
63		72°F		POB105227		
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		

COMPONENT I.D. • 1R434844
NEW CRANK SHAFT SIN 694

SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY - ATTACHED
 L.P. EXAM AS FOLLOWUP TO MT PER 7.12
 CYL #8 GOV. JOURNAL

SYSTEM
EMERG. DIG. GEN.

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 B. Bornee II 9/12/83

PLANT/LOCATION
SNPS-1
TURBINE DECK EASTSIDE ETC.

E. ATTEST
 Rodney B. Bornee II 9/12/83

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 Worked</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
GEOMETRY		<input type="checkbox"/> PIPE <input type="checkbox"/> PLATE <input type="checkbox"/> ROD	<input checked="" type="checkbox"/> OTHER: <i>Crank Shaft</i>

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>
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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>ZL-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.
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LOCATION	SIZE (INCHES)	DESCRIPTION	ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY)
<i>See Sketch</i>	<i>None</i>	<i>N/A</i>	<i>Accept (No Relevant inds.)</i>
1	↓	↓	/
2	↓	↓	
3	↓	↓	
4	↓	↓	

L.100 NDE 6.3-4.22 *Andie W. [Signature]* *9-13-83*

TEST	<i>Andie W. [Signature]</i>	<i>II</i>	<i>9-13-83</i>
RESPONSIBLE OFFICER			

#8 Crankshaft SN 694
 Energy Dies. Gen.
 Turbine Deck East Side E163
 PART/LOCATION SNPS-1

NUCLEAR REGULATORY COMMISSION

Docket No. 50-322-06 Official Ex. No. C-33
In the matter of LHCO-Shouham

Staff _____ IDENTIFIED ✓
Applicant ✓ _____ RECEIVED ✓
Intervenor _____ REJECTED _____
Cont'g Off'r _____
Contractor _____ DATE 9-20-85
Other _____ Witness Panel
Reporter KCE