

C-30-1



SUBSIDIARY OF CURTIS-WRIGHT CORPORATION  
288 ADAMS BOULEVARD  
FARMINGDALE, L. I., NEW YORK 11735  
PHONE: (516) 293-4800 TELEX: 96 1489  
**SHOT-PEENING SERVICE**

43748

TERMS: <b>NET 30 DAYS</b>	WHEN REMITTING PLEASE USE THIS INVOICE NO. <b>→</b>	INVOICE NO. <b>3-</b>	INVOICE DATE
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SOLD TO SAME AS "SHIP TO" UNLESS NOTED	<b>LONG ISLAND LIGHTING CO. P.O. BOX 604 WADSWORTH RIVER, NEW YORK 11792</b>	SHIP TO
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YOUR P.O. NO. <b>366201</b>	JOB NO.	SHIPPER NO.	SHIPPED VIA	COLLECT	TERMS	YOUR PREPARE DEL.	DATE SHIPPED
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ITEM NO.	QUANTITY	PART NO. DIMENSIONS, ETC.	DESCRIPTION
		Two Crankshafts for diesel generators #102 & 103	<p>WE HAVE PROCESSED THE FOLLOWING PARTS</p> <p>SERVICES OF OUR FIELD CREW TO FURNISH CRANKSHAFTS S/N 693 AND 694, IN YOUR FACILITY PARTS TO BE DISMANTLED, WASHED, AND SHOT PEENED FOR REPAIR. REWORK REQUIRED: #102-1032 SUPPLEMENTAL</p> <p>Metal Improvement certifies that shot peening was performed in accordance with S/R R43-1022. Intensities are verified by the enclosed ALUMINUM STRIPS. 100% min. coverage was verified by the PT 1000 method and witnessed by F.A.A., F.A.A. and Test Engineer. No other warranties are given or implied.</p> <p>CERTIFICATION ALMEN STRIPS</p>

SERIAL NUMBERS	Q.C. INSPECTOR	FOR REPAIR STATION NO. 111-1
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Metal Improvement takes no  
responsibility for scratches  
or rub marks present and  
documented by F.A.A. prior  
to peening

THE PART(S) IDENTIFIED ABOVE WERE SHOT PEENED IN ACCORDANCE  
WITH AS PER BELOW THIS WORK PERFORMED ON THE PART(S) LISTED  
ABOVE WAS INSPECTED IN ACCORDANCE WITH THE CURRENT F.A.A.  
REGULATIONS AND IS APPROVED FOR RETURN TO CUSTOMER

The shot peening was accomplished under the following conditions to saturation and in accordance with the following specifications.

F. SIZE		INTENSITY	PER		DATE REC'D
MI-550		0.008-0.010	PER	PER	9/16/83
ST SIZE		INTENSITY	PER	PER	DATE CERTIFIED
			G-T 501	BAC-5730	9/20/83
SHOT SIZE		INTENSITY	MIC PROC. SHEET NO.		CERTIFIED BY
					<i>R. T. T. T.</i>

8503280406 840920  
PDR ADOCK 05000322  
G PDR

## ALMEN STRIP LOG

## CRANK SHAFT # 694

NO.	DATE	TIME	OPERATOR	ARC HEIGHT (CS)
1	9/17/83	9:00 PM	DAVID ANDRESON	0.0095
2	"	"	"	0.011
	* NOTE # 2	(at) 200%	COVERAGE	
3	9/17/83	10:05 PM	DAVID ANDRESON	0.009
4	"	10:30 PM	"	0.010
	* NOTE # 4	(at) 200%	COVERAGE	
* 5	9/17/83	10:45 PM	DAVID ANDRESON	0.008
6	"	11:35 PM	"	0.009
7	9/18/83	8:55 AM	CHUCK BROWN	0.0095
8	"	3:10 PM	"	0.008
9	"	8:50 PM	ANDRESON	0.009

## CRANK SHAFT # 693

* 10	9/19/83	11:40 AM	CHUCK BROWN	0.009
11	"	3:30 PM	"	0.0085
12	"	4:40 PM	MARIO GARCIA	0.0085
13	"	8:45 PM	DAVID ANDRESON	0.0085
14	9/20/83	9:00 AM	CHUCK BROWN	0.009

\* PART STARTED FOLLOWING THIS STRIP.



331 VERONA AVENUE • NEWARK, NEW JERSEY 07102  
AREA CODE 201/463-7700 • TUB 710-975-1500

November 5, 1980 .

Metal Improvement Co.  
280 Adams Blvd.  
Farmingdale, L.I., N.Y. 11732

Attn: Saul Harris

Gentlemen:

This is to certify that the Testing Sieves  
manufactured by Newark Wire Cloth Co. meet  
the following specifications:

ASTM E-11-70  
RR-S-366

Very truly yours,

NEWARK WIRE CLOTH COMPANY

A handwritten signature in dark ink, appearing to read "Roger W. Campbell", is written over the company name.

Roger W. Campbell

RWC/cmr

Encl.

Sworn to and subscribed before me  
on this 5th day of November  
1980, in the City of Newark,  
County of Essex, State of New Jersey.

A handwritten signature in dark ink, likely belonging to the Notary Public, is written over the notary text.

Notary Public in New Jersey  
My Commission Expires May 1, 1983

C-31-4

# CALIBRATION TEST REPORT

(See Reverse Side for Certificate)

To: METAL IMPROVEMENT

Test Conditions: LAB. AMBIENT  
 Test Procedures: MFR'S SPECIFICATION

Tested by: C.M.  
 W. O. No.:

Pre-Cal Check. Unit was found to be

Operating within Mfr. Spec					
0-100	BEAM	0-1000	BEAM	0-5000	BEAM
5.00	0.00	5.00	0.00	5.00	0.00
1	1.00	10	10.00	100	100.00
3	3.00	30	30.00	300	300.00
5	5.00	50	50.00	500	500.00
7	7.00	70	70.00		
10	10.00	100	100.00		

MASS 4/12/82 = 4.1  
 NBS# 221514

Remarks:

Test No.	Date	Description	Manufacturer	Model	Identification
300409	9/1/83	DEC-0.6AAM	OHAUS	26106	

# CALIBRATION TEST REPORT

(See Reverse Side for Certificate)

To: METAL IMPROVEMENT

Test Conditions: LAB. AMBIENT  
 Test Procedures: MFR'S SPECIFICATION

Tested by: C.M.  
 W. O. No.:

PRE-CAL. CHECK.

slide channel dry

Clean + lube slide channel

very good

FONDA Gauge Blocks

NBS # 738/226261 9/28/82

Remarks:

Test No.	Date	Description	Manufacturer	Model	Identification
301312	4/15/83	DIA 4 SMIPER	HIT-TOYO	545-622	

**CALIBRATION TEST REPORT**  
(See Reverse Side for Certificate)

To: **METAL IMPROVEMENT**

Test Conditions: **LAP. AMBIENT**  
Test Procedures: **MFR'S SPECIFICATION**

Tested by **CH**  
W. O. No. \_\_\_\_\_

**Pre-Cal Check. Unit was found to be**  
**Operating within Mfg. Spec.**

*assy = 1/2 div*

**FONDA Gauge Blocks**  
**NBS # 738/226261 9/28/82 - 9/27/83**

Remarks:

Test No.	Date	Description	Manufacturer	Model	Identification	Due Date
207252	7/7/83	DIAL IND	FEDERAL	CB1	10-79	1/14/84





## CERTIFICATE

Pennamatic® test strips equal or exceed all requirements of SAE Standard J442, AMS Specification 2430, and MIL-S-13165. Strips are made from SAE 1070 C.R. Spring Steel with No. 1 square 3" edge. Uniformly hardened to 44-50 Rc, heat set between flat plates under pressure for 2 hours minimum at 800°F. Blue temper finish - oiled. Flatness, as measured using Almen Gage, is  $\pm 0.001$ " arc height. Dimensions are 0.750" wide x 3.000" long, 0.094" thick.

*Ralph W. Moore*  
Authorized Signature

200426  
200427  
200428



# METAL IMPROVEMENT COMPANY

MATERIAL TESTED-MIC SIZE <u>550</u> DATE <u>3/27/82</u>		TEST NUMBER	
CAST STEEL SHOT, <u>45</u> TO <u>55</u> RC HARDNESS			
MIC P.O NUMBER	SUPPLIER	QUANTITY	DESTINATION
1. 1391 DALLAS	AMA	1T	DALLAS
2. 192 GER.	AMA	1T	GERMANY
3. 13175 LI	AMA	1T	L.I.
4.			

PURPOSE OF TEST: TO MEASURE COMPLIANCE WITH M.I.C QC0-01 SPECIFICATIONS

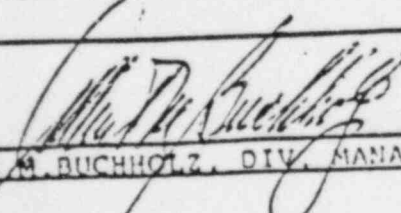
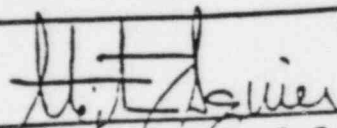
RC EQUIVALENT OF VICKERS D.P.H AT 500 GMS			
1	49 Rc	11	52 Rc
2	51 Rc	12	47 Rc
3	47 Rc	13	53 Rc
4	49 Rc	14	51 Rc
5	47 Rc	15	49 Rc
6	47 Rc	16	52 Rc
7	51 Rc	17	52 Rc
8	52 Rc	18	49 Rc
9	45 Rc	19	51 Rc
10	47 Rc	20	47 Rc

SIEVE TESTS				
SCREEN SIZE	REQUIRED	ACTUAL ON SCREEN	CUMULATIVE TOTALS	COMMENTS
8	ALL PASS	AP	0	
10	2% MAX	AP	0	
12	50% MAX	20.4	20.4	
14	90% MIN	79.5	99.9	
16	8% MAX	.1	100.0	
PAN				

NUMBER OF DEFORMED SHOT		
PER-SQUARE INCH	MAXIMUM	ACTUAL
1"	12	11

COMMENTS:

CONCLUSION: THE SAMPLE OF THE ABOVE SHOT MEETS ~~DOES NOT MEET~~ MIC SPECS FOR SIZE, HARDNESS, CONFIGURATION, CHEMISTRY, MICROSTRUCTURE AND DENSITY.

SIGNED 	SIGNED 
A. BUCHHOLZ, DIV. MANAGER	SUPERVISOR, Q.C.



C-31-9

IOREHAM I  
NUCLEAR POWER STATION  
STARTUP FORM 7.6

RR-R43-7032  
MWR 83-5592  
PAGE 2

September 4, 1979  
REVISION 10

REWORK SUPERVISOR WORK SUMMARY

BRIEF DESCRIPTION OF WORK:

RIG CRANKSHAFTS & CHANGE CRIBBING FOR SHOT  
PEENING.

COMPONENTS REPLACED (IF APPLICABLE):

MATE. CALIBRATED TOOLS UTILIZED:

ADDITIONAL COMMENTS:

O.Q.A. SIG. + DATE

Woody Deaver 9-19-83  
Rework Supervisor Signature/Date

NUCLEAR REGULATORY COMMISSION

Docket No. 50-322-OL Official Exh. No. C-31  
 In the matter of LILCO - Shoreham

Staff \_\_\_\_\_ IDENTIFIED ✓  
 Applicant ✓ RECEIVED ✓  
 Intervenor \_\_\_\_\_ REJECTED \_\_\_\_\_  
 Cont'g Off'r \_\_\_\_\_  
 Contractor \_\_\_\_\_ DATE 9-20-84  
 Other \_\_\_\_\_ Witness Panel  
 Reporter ACE