

Stephen B. Bram
Vice President

Consolidated Edison Company of New York, Inc.
Indian Point Station
Broadway & Bleakley Avenue
Buchanan, NY 10511
Telephone (914) 737-8116

April 3, 1990

Re: Indian Point Unit No. 2
Docket No. 50-247

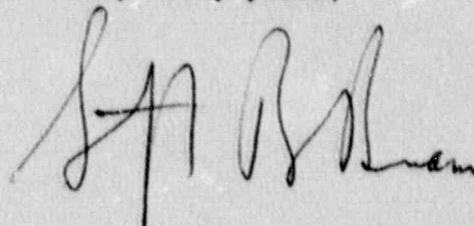
Document Control Desk
US Nuclear Regulatory Commission
Mail Station P1-137
Washington, DC 20555

SUBJECT: Response to Bulletin 87-02

Enclosed are the test results in response to Bulletin 87-02 entitled "Fastener Testing to Determine Conformance with Application Material Specification". During a telephone conversation on March 20, 1990 with Edward Fitzgerald of Region I, he requested an opportunity to review the test results of the fastener testing.

Should you or your staff have any questions regarding this matter, please contact Mr. Charles W. Jackson, Manager, Nuclear Safety and Licensing.

Very truly yours,



cc: Mr. William Russell
Regional Administrator - Region I
US Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Mr. Donald S. Brinkman, Senior Project Manager
Project Directorate I-1
Division of Reactor Projects I/II
US Nuclear Regulatory Commission
Mail Stop 14B-2
Washington, DC 20555

Senior Resident Inspector
US Nuclear Regulatory Commission
PO Box 38
Buchanan, NY 10511

Mr. Edward Fitzgerald
Region I
US Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

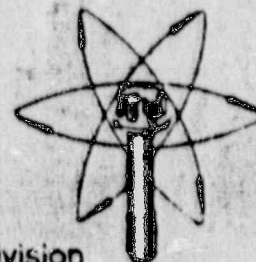
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Controlled
Products,
LTD.



TECHNICAL SPECIALISTS 57-14 Maseith Avenue at 57th Place Maseith New York 11378 Telex 881022 QCP LTD



MATERIAL CERTIFICATION

Nuclear Fastening Division

Customer Con Edison		Customer Order No. 5692728	
Item No. 01.	Date 8-29-85.	Sales Order No. R1284	
Quantity & Description of Item 800/Ea. 7/8"-9UNC2B. Nut Hex		Part No. Class & Stock #. 182-1255	
Material Specification ASTM-A194-GR.2H.		Material Heat No. 885511	Heat Code NH

Req. #42776800

CHEMICAL ANALYSIS				NONDESTRUCTIVE EXAMINATION		
Chemical	Specified	Mill	Check			
C		.47		ULTRASONIC	N/A	
Mn				MAGNETIC PARTICLE	N/A	
P		.019				
S		.037		LIQUID PENETRANT	N/A	
Si						
Ni				VISUAL	Mil-Std. 105D. Level-II. A. O. L. Major-2.5%, Minor-4.0%, Parts Conform.	
Cr				OTHER	Tag. I D. Heat & Lot & Stock, Class & Rqg. No.	
Mo						
Cu						
Al						
				MECHANICAL TESTING		
				Specified	Mill	Check
				Tensile (psi)		
				</		

ADDITIONAL INFORMATION:

GRADE 2H
MINIMUM TEMPERING
TEMPERATURE 850°F HARDNESS
AFTER 24 HRS. AT 1000°F
179 BHN MINIMUM.

CERTIFICATION OF COMPLIANCE:

Q.A.M.C.
APPROVED



Indian Point Station

QUALITY CONTROL RECEIPT INSPECTION
QUALITY CONTROL INSPECTION REPORT

PAGE 1 OF 1

Date 10-10-85

QCIR NO. RI
YEAR UNIT NO.
☒ CHECKLIST

PROJ. NO. (QCIR ONLY)

MAT'L/COMPONENT/ITEM <i>NUT - 7/8" UNC 2H A-194</i>	PART NO./IDENT. NO. <i>NT # 875511</i>	VENDOR/CODE NO. <i>Quality Controlled Prod.</i>	VENDOR CONTACT/PHONE
SYSTEM <i>UNIT # 2 GENERAL NUCLEAR USE</i>	CLASS STOCK/BLUE TAG NO. AND DATE <i>182-1255 51286 916-85</i>	REQ. NO. INITIATOR	P.O. NO. <i>5-692728</i>

ITEM	REQUIREMENT/CODE/SPECIFICATION	PROBLEM/INSPECTION RESULTS	ACTIONEE FOR ITEM	ACTIONEE ITEM DISPOSITION
1	VISUAL FOR DAMAGE/DEFECTS:	<i>Charles Warner</i> 10-10-85 <i>each piece is MARKED NH 2H</i> 5692728 PG. 1821255 C/S 85126 C/S		
2	IDENTIFICATION:			
3	REQUIREMENTS OF PROCUREMENT DOCUMENTS (PURCHASE ORDER, SPECIFICATION, DRAWING, ETC.) AS APPLICABLE:			
4	DOQAR: <i>E3. MTL TEST REPORTS INCLUDE PHYS. & CHEMICAL PROPERTIES REQUIRED BY CODE.</i> <i>E4. MTL. SHALL BE MARKED PER APPLICABLE SPEC.</i> <i>B3. ITEM SHALL BEAR ALL MARKINGS REQ. BY SPEC. CODE.</i> <i>B6. UNDOUBTLY TRACEABILITY MARKINGS.</i> <i>D4. Pkg. TO BE MARKED WITH CONFD. PKG. MARK. CLASS & STOCK NUMBER.</i>			

QUANTITY	YELLOW TAG NO.	INSPECTED BY <i>Charles Warner</i>	ACTION CODE
INSPECTED 800 ACCEPTED 800 HELD			C=Cont MC=Mat'l Conc. E=Eng. P=Purchasing IC=ISC QA-QASR M=Maint.
QA EVALUATION:		QA EVAL: SIGN/DATE	GREEN TAG NO. <i>85126</i>
DISTRIBUTION:			REJECT NO.

REMARKS:
FINAL QA DISPOSITION: SIGN/DATE

QCIR NO. RI
YEAR UNIT NO.

967 E. HAZELWOOD AVE.

(201) 388-7711

RAHWAY, N.J. 07065



REPORT OF TESTS

Reference No. S-74700-C

MATERIAL grade 2H Carbon Steel heavy hex nut (7/8-9) Your Order No. 6-22245, Rel.No 149

FROM Consolidated Edison of N.Y.
Astoria, NY 11105

Specification No. ASTM A194-85a
grade 2H

Specimen Number	IP19C				
Marked	"NH2H"				
RE;	P.O.No. 5-692728				
	Class/Stk. 182/1255				
	Heat No. B85511				
	Required				
Proof Load Test	Pass	Nut shall resist an axial load of 80,850 pounds without stripping or rupture.			
Rockwell Hardness	C26	C24/38			
Chemical Analysis, %					
Carbon	0.41	0.40	Minimum		
Manganese	0.62	-			
Phosphorus	0.012	0.040	Maximum		
Sulphur	0.045	0.050	Maximum		
Silicon	0.21	-			
Chromium	0.37	-			
Molybdenum	LO.01	-			
Nickel	0.05	-			
	L=less than				

REMARKS The submitted carbon steel heavy hex nut conforms to the requirements noted.

We certify that this report is a true report of
tests obtained from tests of this material

Subscribed and sworn to before me
this day of 19

Tested by: R. Goldenberg, E.E. Date: Dec. 14, 1987. Witnessed by:
Ass't. Technical Director

City Testing & Research Laboratories, Inc.

TABLE A2

Page 30 of 61



967 E. HAZELWOOD AVE.

(201) 388-7711

RAHWAY, N.J. 07065

REPORT OF TESTS

Reference No. S-74700b

MATERIAL grade 2H Carbon Steel heavy hex nut (7/8-9) **Your Order No.** 6-22245, Rel.No 149

FROM Consolidated Edison of NY
Astoria, NY 11105

Specification No. ASTM A194-85a
grade 2H

Specimen Number	IP19b				
Marked	"NH2H"				
	RE: P.O.No. 5-692728 Class/Stk. 182/1255 Heat No. B85511				
		<u>Required</u>			
<u>Proof Load Test</u>	Pass	Nut shall resist an axial load of 80,850 pounds without stripping or rupture.			
<u>Rockwell Hardness</u>	C27	C24/38			
<u>Chemical Analysis, %</u>					
Carbon	0.46	0.40	Minimum		
Manganese	0.63	-			
Phosphorus	0.012	0.040	Maximum		
Sulphur	0.045	0.050	Maximum		
Silicon	0.21	-			
Chromium	0.37	-			
Molybdenum	LO.01	-			
Nickel	0.02	-			
	L=less than				

REMARKS The submitted carbon steel heavy hex nut conforms to the requirements noted.

We certify that this report is a true report of
results obtained from our tests of this material

Subscribed and sworn to before me

this day of 19

Tested by H.C. Goldenberg, P.E. Date Dec. 14, 1987. Witnessed by
Ass't. Technical Director

City Testing & Research Laboratories, Inc.

TABLE A2

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967 E. HAZELWOOD AVE.

(201) 388-7711

RAHWAY, N.J. 07065

REPORT OF TESTS

Reference No. S-74700-a

MATERIAL grade 2H Carbon Steel heavy hex nut (7/8-9) **Your Order No.** 6-22245, Rel. No 149

FROM Consolidated Edison of NY
Astoria, NY 11105

Specification No. ASTM A194-85a
grade 2H

Specimen Number	IP19a				
Marked	"NH2H"				
	RE;	P.O.No. 5-692728 Class/Spec. 182/1255 Heat No. B85511			
		<u>Required</u>			
<u>Proof Load Test</u>	Pass	Nut shall resist an axial load of 80,850 pounds without stripping or rupture			
<u>Rockwell Hardness</u>	C27	C24/38			
<u>Chemical Analysis, %</u>					
Carbon	0.52	0.40	Minimum		
Manganese	0.61	-			
Phosphorus	0.011	0.040	Maximum		
Sulphur	0.040	0.050	Maximum		
Silicon	0.19	-			
Chromium	0.33	-			
Molybdenum	LO.01	-			
Nickel	0.04	-			
	L=less than				

REMARKS

The submitted carbon steel heavy hex nut conforms to the requirements noted.

We certify that this report is a true report of
results obtained from our tests of this material

Subscribed and sworn to before me

this day of 19

Tested by HC Goldenberg, P.E. Date Dec. 14, 1987 Witnessed by

Ass't. Technical Director