ORGANIZATION: GENERAL ELECTRIC COMPANY WILMINGTON MANUFACTURING DEPARTMENT WILMINGTON, NORTH CAROLINA

REPORT INSPECTION INSPECTION NO.: 99900003/82-02 DATE(S) 8/24-27/82 ON-SITE HOURS: 28 CORRESPONDENCE ADDRESS: General Electric Company Wilmington Manufacturing Department ATTN: Mr. J. A. Long, General Manager P. O. Box 780 Wilmington, NC 28401 ORGANIZATIONAL CONTACT: Mr. C. W. Doyle, Quality Audits & Customer Service Mgr. (919) 343-5884 TELEPHONE NUMBER: PRINCIPAL PRODUCT: Nuclear Fuel Assemblies and Core Hardware. NUCLEAR INDUSTRY ACTIVITY: Major nuclear fuel, control rod drives, jet pumps, steam separators, hydraulic control units, and other BWR core hardware for GE designed cores. ASSIGNED INSPECTOR: I Dame 10-5-82 for W. M. McNeill, Reactive & Component Program Date Section (R&CPS) OTHER INSPECTOR(S): & Barnes APPROVED BY: 10-5-82 I. Barnes, Chief, R&CPS Date INSPECTION BASES AND SCOPE: Α. BASES: General Electric Topical Report NEDO-11209-04 Β. SCOPE: Control of special processes, manufacturing process control, calibration, and status of previous inspection findings. DESIGNATED ORIGINAL FOUTS PLANT SITE APPLICABILITY: Not identified. 8210260558 821012 PDR 04999 EMVGENE 99900003 PDR

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Α.		ATIONS:		
	None			
Β.	NONC	ONFORMANCES:		
	1.	Program, NEDE-20586, Se Order requirements was received and accepted f	of the Topical Report and the Quality ection 6.7.5.1, verification of all P not perfomed, in that Anhydrous Ammo five times since 1978, although the v the purchase specification D27A1 requ sable gases.	Purchase nia was rendor
	2.	Program, NEDE-20586, Se gases, are not always e of Anhydrous Ammonia (F and used from that date supplier certification	of the Topical Report and the Quality ection 6.7.5, purchased bulk chemical examined upon delivery. A lot of 34, 20 334Z2832) was received on August 1 e on, without a verification of the q and test results were inadvertently purchase order and a release had not	s, such as 720 pounds 3, 1982, uality. The attached to
	3.	Program, NEDE-20586, Se ness tester (W02182) wa	of the Topical Report and the Quality ection 6.12.3, it was observed that t as calibrated during 1982 at an inter prescribed 3-month interval.	he hard-
С.	UNRE	SOLVED ITEMS:		
	None			
D.	STATI	US OF PREVIOUS INSPECTIO	N FINDINGS:	
	(Closed) Nonconformance 32-01: There was no Quality Notice or other data to document the temperature profile verification in 1981 for four of five autoclaves. In addition, there was no Quality Notice, but there were data to document that temperature profiles were verified for three of the autoclaves in 1980. Quality Notices have been issued to document the current qualifications of the autoclaves.			
Ε.	OTHER	R FINDINGS OR COMMENTS:		
	1.	stainless steel was ins qualification reports, were reviewed in detail	esses - The special process of nitric pected. The process specification, inspection plan, and process procedur . The nitriding process was inspected of lot 371 for collet pistons and g	res ed: in

caps. It was verified that the process conformed to specification

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	and qualification 1 Anhydrous Ammonia i	imits and requirements, except as no s used in the nitriding process. Th res use of ammonia bought to purchas C1.	e process
	gases. The vendor Receiving Inspectio Notice (PODN) 3994; Engineer had delete identified as nonco document this nonco during this inspect Ammonia was observe had been issued. A reports, etc., are procedural controls	requires the manufacturer to report never supplied this particular report n unit had issued a Purchase Order D however, the Purchase Material Qual d this item from the PODN. This pro- nformance B.1. GE issued an Inspect nforming material on the subject shi ion. The most recent shipment of An d to be in use, but no release of th s gases are received the certification passed on to Receiving Inspection; h do not exist which would preclude u release by Receiving Inspection. The nconformance B.2.	t. The Deficiency ity Control oblem has been tion Report to pments hydrous he material ions, test however, use of bulk
2.	shop traveler and p revisions of proced instructions and si exceptions noted be traveler/procedure were observed with ments identified in ing drawing identification tees were at inspect Instruction did not marking requirement assembly. The nece have yet to be issue of ASME code parts, ments for inclusion subject to followup will be reinspected regard to the subject	ss Control - The control of manufact rocedures was verified. The use of ures and drawings was verified. Cor gnoff of traveler's steps were verifi- low. GE has implemented a new compu- system called the MI Plan. A lot of step 20 signed off; however, the man the MI Plan for step 20, but not or ied on the traveler, were not comple- tion where the Quality Control Inspe- tion where the Quality Control Inspe- tion where the Quality Control Inspe- stare inprocess information for sub- sesary revisions of the Practices and in regard to NCA-4134.9(b) and 413 of document numbers and their revis- during the next inspection. The M after issue of the Practices and P- ect reducing tees, manufacturing did ity Control did revise its procedure	the latest formance to fied with some uterized shop f reducing tees rking require- n the engineer- ete. These ection ing. The sequent d Procedures Plan. Compliance 4.10(b) require- sions, will be I Plan system rocedures. In mark the parts
3.	Calibration - A sam The conformance to	mple of 17 gages and instruments was established calibration procedures,	inspected. frequencies,

3. Calibration - A sample of 17 gages and instruments was inspected. The conformance to established calibration procedures, frequencies, acceptance limits, records, and labelling was verified with the exceptions noted below. It was noted that the basic procedure which cross referenced the calibration procedure to be used, contained a ORGANIZATION: GENERAL ELECTRIC COMPANY WILMINGTON MANUFACTURING DEPARTMENT WILMINGTON, NORTH CAROLINA

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	Inspection Standard referenced B.01 ins frequencies referen in two cases. A sp calibrated at a 3-m hardness tester was	.g., Vernier Caliper (Dial B.23 instead of B.13, and tead of B.03. Unrelated t ced in the basic procedure ring compression tester wa onth interval and not a 6- found being calibrated at erval. This is identified	Micrometers, Depth o this problem, the were not followed s found being month interval; and a a 6-month interval

company Gineral Electic

PERSONS CONTACTED

Inspector Mcheill

Dates 8/24-27/82

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NAME(Please Print)	TITLE(Please Print)	ORGANIZATION(Please Print)
* Jim Liberman	QUALITY AUDIT & CUST. SeRVICE	G.E.
* Jim Liberman John FERENBAK	PCE PLANNER	"
Jim MCLEOD	MFq. ENG.	"
*Lou AIELLO	MFg. ENG.	4
DAVE KEECH	MAR CAN SYSTEMS & MERS	de *
5 FERKER	TRODUCT ENG	"
KEN White	FOREMAN	"
CHUCK WEIDNER	PLE ENG	н
WALTER WINTER	PMQC ENG.	
E.C. DENGLER	BUYER	"
*WALLY BALLER	GA SYSTEM ENG	11
*G.E. Thomas	Q. AUDITS & CUST. SERVICE	**
*D. STARR	Mar Equip. & Compensions Quan	Ty -
* EA LEES	Mar QA	
* Tom WAWKINS	MAR. WELD. & PROCESS	"
* JF WOYE	MgR. E.P. \$ 5.0.	11
* VERN MONROE	MAR. PMQC	"
* J MEES	Mar. PMQC Mar Equip. Produce.	"

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DOCUMENTS EXAMINED

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Specification

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Document Types:

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2	TITLE/SUBJECT	3
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) m	13	1/23/19
	100	12/21/81
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2	HARD	115/19
2	MASKING OF STAINLESS STEELS TO PREVENT SURPLE HARDENING	1/0/179
3	NITRIDING 304 SS	4/23/80
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r	MEDNANICAL GAGE CONTROL	12/1/80
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1. Drawing Document Types:

- Purchas Order
- Internal Memo
 - Letter

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	TITLE/SUBJECT
•	MCONFORMING MEASUREMENT & TEST ROUTPMENT
	SAMPLE GAGE & INSTRUMENT HISTORY RECORDS, RESUME
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1. Drawing 2. Specification 3. Procedure 4. QA Manual Document Types:

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