ORGANIZATION: COMBUSTION ENGINEERING, INC. NUCLEAR POWER SYSTEMS DIVISION HEMATITE, MISSOURI

NO.: 99900102/82-01	INSPECTION DATES: 7/12-15/82	INSPECTIÓN ON-SITE HOURS: 24
CORRESPONDENCE ADDRESS:	Combustion Engineering, Inc. ATTN: Mr. H. V. Lichtenberger Vice-President Manufactur 1000 Prospect Hill Road Windsor, Connecticut 06095	ing
ORGANIZATIONAL CONTACT: TELEPHONE:	Mr. M. R. Thomas, Quality Assurat (203) 688-1911 ext. 5774	nce Manager
PRINCIPAL PRODUCT: Nucl NUCLEAR INDUSTRY ACTIVIT designed cores.	ear fuel assemblies and control r Y: Nuclear fuel and control rod	od drives. drive supplier for CE
ASSIGNED INSPECTOR:	M. McNeill, Reactive and Componen Section (R&CPS)	t Program Date
ATHER INCREATOR(S).		
OTHER INSPECTOR(S).		
APPROVED BY:	Barnes, Chief, R&CPS	<u>8-10-82</u> Date
APPROVED BY:	Barnes, Chief, R&CPS	P-10-82 Date
APPROVED BY: INSPECTION BASES AND SCO A. BASES: 10 CFR Part	Barnes, Chief, R&CPS DPE: 50, Appendix B.	<u>8-10-82</u> Date
APPROVED BY: INSPECTION BASES AND SCO A. <u>BASES</u> : 10 CFR Part B. <u>SCOPE</u> : Enrichment a and shipping; and st	Barnes, Chief, R&CPS DPE: 50, Appendix B. and impurity controls; pellet attr catus of previous inspection findi	Date Date

PDR 04999 EMVC-E 99900102 PDR ORGANIZATION: COMBUSTION ENGINEERING, INC. NUCLEAR POWER SYSTEMS DIVISION HEMATITE, MISSOURI

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Α.	VIO	DLATIONS:		
	Non	le		
в.	NON	ICONFORMANCES:		
	1.	Contrary to Criterion V paragraph 2.6.1 of the C Orders H-65 and H-66, ha performed.	of Appendix B to 10 CFR Part 50 and S QA Manual, resintering testing, identi ad not been planned for the required w	ection 2, fied in Work work to be
	2.	Contrary to Criterion V paragraph 7.2 of the QA during the inspection as ble operation sheet; i.e etc., were in use than t	of Appendix B to 10 CFR Part 50 and S Manual, determination of grain size w s not being executed in accordance wit e., different microscope, objective le that required by the operation sheet.	ection 7, as observed h the applica- ns, filters,
с.	UNR	ESOLVED ITEMS:		
l	Non	e		
D.	STA	TUS OF PREVIOUS INSPECTIO	DN FINDINGS:	
	(C1 out	osed) Unresolved Item (77 of date.	7-01): The Quality Assurance Manual w	as found to be
	A r thi	evision of the QA Manual s manual to be implemente	has been issued. A review of shop ac ed with the exceptions noted below.	tivities found
Ε.	OTH	ER FINDINGS OR COMMENTS:		
	1.	Enrichment and Impurity pellet manufacture was i specification chemistry such as labels, pellet i travelers and Operation found to follow establis material control and ide were verified.	Controls - The use of sampling plans inspected. Compliance to the Work Ord requirements was verified. Administr identification, etc., were verified. Sheets to control manufacturing was i shed procedures. The measures establi entification of the inspection status	to control er and ative controls The use of nspected and shed for of pellets
	2.	Pellet Attributes - Comp specification requiremen dimensional, surface and and found to follow the nonconformances were ver two recent lots were rev	oliance to the Work Order, drawing and hts was verified. The sampling for de d other physical characteristics were written procedures. The controls for rified. The records of inspection and viewed. The inspection procedures wer	nsity, inspected rework and testing of e reviewed and

ORGANIZATION: COMBUSTION ENGINEERING, INC. NUCLEAR POWER SYSTEMS DIVISION HEMATITE, MISSOURI

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	inspection activities o were checked and one no identified. The Work O a requirement for resin Hematite Plant does not atmosphere. No excepti Hematite Plant. In the a nonconformance (B.2 a procedure in question h of the inspection proce times controlled by mem further noted that tole for furnace gas flow ra	bserved. The controls of the sintering nconformance (B.1 above) on resintering rder and its referenced specification in tering testing to be performed. Howeve have the capabilities to sinter in the on had been taken to the Work Order by review of the testing of pellet micross bove) was identified. It appears that as become out-of-date. A general obser dures was that the inspection frequenci orandum rather than by the procedures. rances had not been established in proc tes, cooling temperatures, etc.	process was dentified r, the specified the tructure, the vation es were some- It was edures
3.	Handling, Storage and S CE Windsor's plant sche a material supplier of tured by the Hematite P rod loading. It was es activities were not ins be a nonconformance wit Shipping activities wer manufacturing procedure	hipping - The Hematite Plant is pelleti dule overload. Normally the Hematite P UO ₂ powder for pelletizing. The pellet lant are shipped to the CE Windsor Plan tablished by this inspection that shipp pected by QA. This was determined, how h the established QA Manual and Work Or e verified as being performed in accord s.	zing lant is only is manufac- it for fuel ing ever, not to der. lance with

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company Combustion Engineering Docket/Report No. 99900102

Dates July 12-16, 1982 Inspector Mchaill

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NAME(Please Print)	TITLE(Please Print)	ORGANIZATION(Please Print)
Thom SWALLOW	QA MgR.	CE.
Jin Rode	PLANT MOR	
GRAY Uding	GC ENG	
B.S. P166	LAB SUPER.	
E: GANNON	Dr. BONTROL CUSIUD	IAU
	land and the second second	
		A the set
* Attended Fx	& Meeting	

Inspector W heild

DOCUMENTS EXAMINED

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9/14/01 5/10/52	28/21/4	56- 21-1	8-51-81	3-13-76	9-3-81	10-21-1	5714/82	4-1581	~	"	"	
QUALITY ASS UP ADOLE MANUAL - HEMATTTE PLANT TUTER- SHOP ORDER	· · · ·	URANIUM DIOXIDE VELLETS INTEGRATED ME AND QU PLAN (TWAP)	FUEL PEULET	SAMPLING, PLAN) FOR UO2 FUEL PELLET REQUES.	Relier Hant On DHECLISI	SAMPLING PLANENE PROXIT PERTIFICATION	TRETHINGE SUMPLES	PEULET GEOMETRIC DENSITY MEASUREMENTS	PELLET CERTIFICATION	PELLET VISUAL TABPECTION	OPERATION AND CALIBRATION OF PRAFILOMETER	SET UP AND OPERATION OF ROLLER MIKE
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AA	H65	FMDT-110	600-171	20-15-12	05 503	1.30000	.3	1"HOS SOH"I	1.	.3	Sas.1	1

Drawing Specification Document Types: -----

- Purchas Order
- Internal Nemo

 - Procedure ()A Manual
- Letter Other (Specify-If necessary)

Columns:

- Sequential Item Number
 - Type of Document. Date of Document.
- Revision (If applicable) -....

Scope/Module PELLET APIT Inspector MCheile

DOCUMENTS EXAMINED

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-	2	TITLE/SUBJECT	3	۷
5.202.20	2	Pauer Perpendicularity Merurguent	4/12/81	0
7.	•	OPTICAL COMPNICATOR	"	*
Sec	11	CONTROL AND CALIBRATION OF FRUIP THSI & STD.	18/82/1	0
So3	"	DOCUMENT CONTROL	9/2/2	'
	G	INSTRUMENTAL CALIFSICION RECORD (VARIOUS-16)		
H-66	9	PRODUCT SAMPLE AND CERTIFICATION PLAN		
	9	PELLE PANT DAILY CALIBRATION CHECK		
	0	SINTERING OPERATING LOG SHEETS (VARIOUS-S)		
	6	FIRED DENISITY LOG SHEETS (VARIOUS - 5)		
5 510.12	2	GRAIN SIZE DETERMINATION	Q-12-2	'
5 706.4	S	PREASING UDE RELLETS (SHIPPING, PANS)	18-2-21	0
	6	GRINDING LOG (UARIOUS)		
	6	PRESSING LOG (VARIOUS)		
	0	Certification Package for Lots C 328P & 0327P		
	8			

Drawing Specification Document Types: ------

Purchas Order

Internal Nemo 6.0

Letter Procedure QA Manual

Other (Specify-If necessary)

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Revision (If applicable) me