REPORT NO.: 99900404/82-02	INSPECTION DATE(S)	10/25-29/82	INSPECTION ON-SITE HOURS: 102
Nuc ATT P. Pit ORGANIZATIONAL CONTACT: Mr.	lear Technolog N: Dr. R. J. O. Box 355 tsburg, PA 51	Slember, General	
PRINCIPAL PRODUCT: Nuclear S NUCLEAR INDUSTRY ACTIVITY: T Electric Corporation (W-NTD)	he Nuclear Tec	hnology Division	
assigned to domestic nuclear			
ASSIGNED INSPECTOR: 72.14.7. R. H. Br	Brickley, Reacto	r Systems Section	(RSS) 12/10/87 Date
OTHER INSPECTOR(S): (See par	agraph E.1)		
APPROVED BY:	lalo le, Chief, RSS		1-2/10/82- Date
INSPECTION BASES AND SCOPE:			
A. <u>BASES</u> : 10 CFR Part 21; No. WCAP-8370.	10 CFR Part 50	, Appendix B; and	I Topical Report
B. <u>SCOPE</u> : Inspection of th following: (1) a reques for participation in a t safety parameter display of Inspection and Enforc pressure transmitter ina	t from the Off echnical and Q system, and ( ement concerni	ice of Nuclear Re A programmatic au 2) a Westinghouse ng reactor coolin	actor Regulation (NRR) dit of the generic report to the Office g system wide range
PLANT SITE APPLICABILITY: Not identified.		DESIG Gertified By	Rheanne Clark
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REPORT NO.: 99900404/82-02	RESULTS:	PAGE 2 of 4
A. <u>VIOLATIONS</u> :		
None		
B. NONCONFORMANCES:		
None		

THEFTATION

#### C. UNRESOLVED ITEMS:

ener

It was not clear whether inputs from the instrumentation and controls channel list, control and electrical system standard, or some other component functional requirements document are required in the component specification for the reactor cooling system wide range pressure transmitter.

D. STATUS OF PREVIOUS INSPECTION FINDINGS:

(Closed) Nonconformance (82-01): W-NTD had not performed a formal evaluation each year or conducted an audit of Anchor Darling every 3 years to maintain them as a qualified supplier nor had they otherwise requalified them prior to Anchor Darling performing modifications to valves for Watts Bar. The last audit of Anchor Darling was in March 1975, and the last supplier performance evaluation was in November 1977.

The NRC inspector verified the corrective action and preventive measures committed in the Westinghouse letter dated August 23, 1982; i.e., Procedure WRD-OPR-3.4, "Field Change Notice Processing System" was revised on August 12, 1981, to require that a purchase order or purchase order change be issued to a vendor when a field change notice requires work to be done at a vendor facility. This will require the cognizant quality engineer to review the purchase order or purchase order change and verify that the vendor is on the qualified supplier list. However, the W-NTD commitment to a formal evaluation or audit of a supplier on an annual basis was not made until September 1977; therefore, a nonconformance did not exist.

### E. OTHER FINDINGS OR COMMENTS:

 Safety Parameter Display System (SPDS) - This item resulted from a request from the NRR for participation in a technical and QA programmatic audit of the Westinghouse generic SPDS activities. The NRR audit team was composed of the following personnel:

REPORT NO.:	99900404/82-02	INSPECTION RESULTS:	PAGE 3 of 4			
	R. Licciardo, Reacto G. Lapinsky, HFEB	n Factors Engineering Branch (HFEB) or Systems Branch (RSB) tation & Controls Systems Branch				
	The members of the team reviewed the documentation available at this time in the system development consisting of the design basis and functional requirements documents; human factors evaluation and the technical support complex, supplement 1 reports; and the visual moment paper. The results of this audit were discussed with the Westinghouse staff and will be documented by the NRR staff in a report which will be transmitted to Westinghouse.					
	Westinghouse staff of would be required by the design basis and these documents were WCAP-8370; however, was not completed.	able documentation and discussions wi disclosed that records of the design of Topical Report WCAP-8370 were not of d functional requirements documents. The developed in accordance with the re- the formal documentation to support The human factors evaluation process ared to be in accordance with QA prog	process that developed for Reportedly, equirements of these statements s was well			
	safety system (Class detailed requirement of the WCAP-8370 pro	that the SPDS has not been classified s 1E) and, therefore, would not be su ts of the WCAP-8370 program. The app ogram to the design and development of LRR and will be a subject to future aff.	ubject to the plicability of the SPDS remains			
	There were no noncor	nformances or unresolved items identi	ified.			
2.	Inaccuracies - This of Inspection and Er post-accident, high that the wide range ambiguities in their operator actions. T	tem (RCS) Wide Range Pressure Transmi item concerns a report by Westinghoun forcement that recent qualification energy line break environment have is pressure measurement instrument char r accuracy which could result in inap The Office of Inspection and Enforcem s of this condition via IE Information ril 9, 1982.	use to the Office tests in a indicated nnels exhibit opropriate ment notified			

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		functional n	Safety Review requirements,			
	a. The ins range p	trument and ressure tran	controls chan nsmitter (WRPT	nel list spec ) must have a	ified that t ±30 psi acc	the wide curacy.
	must ha ±10% un accurac	ve a specifi der thermal y of ±7.5% a	ectrical syste ied reference shock and tem at temperature temperatures	accuracy of ± peratures gre s between 150	0.5%, an acc ater than 30 ° and 300° 1	curacy of DO° F, an F, and an
	WRPT mu ±10% at	st have spec temperature	of the equipme cified referen es between 130 conditions.	ce accuracy o	f ±0.5%, an	ed that the accuracy of uracy of ±25%
	to a sp	n 3 to the e ecified refe t conditions	equipment spec erence accurac 5.	ification cha y of ±0.5% an	nged the ree d ±5% under	quirements post-
	e. The acc post-acc	uracy of the cident condit	e existing WRP tions, is ± 13	Ts in all Wes % of span (30	tinghouse p 00 psig) or	lants, under ± 390 psig.
	instrumenta system stan was applical	tion and cor dard, or son ble to the V	ined whether t ntrols channel me other compo WRPT equipment (see C. above)	list, the co nents require specificatio	ntrol and e ments docum	lectrical ent
3.	had initiat	ed an invest	Ref. 99900404/ tigation of ma n safety-relat	in frame A co	mputer malf	Westinghouse unctions and
	were create problem occ permanent f files which 375 compari	d during the urred (March iles created were created son runs, in	eted the inves e week when th n 9, 1979 thro d since Januar ed earlier). ncluding 190 s ; therefore, t	e main frame ugh March 19, y 1, 1978 (th The investiga afety-related	A (MFA) hard 1979) and ose current tion involve codes. No	dware the ly used ed additional

3-1 Rev. 3-12-75

ATTENDANCE LIST

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10/29/82	Pre-inspeczon Conference	Abst inspection Conferen
ME (Please Print)	TITLE (Please Print)	(Flease ORGANIZATION Print)
R. H. Brzickley	REACTOR ENSINEER	NRC R-IK
.H. Brunko	PIZ DA Mar.	PI\$DA -NTD
1. H. SHANNON	Sanion QUALITY ENGINEER	NTD-PI + DA
B. HYLAND	PRODUCT ASSURANCE MG2	NSID/ITTC
T. M. Miller	Senior Eng.	NTD / IRESC
Hilip T. McMANUS	MGR., Design Assurance Systems	Nuclear Technology Division Product Integrity & Orsign Asura
M.J. ASZTALOS	Sr. Emgr. MGR REG. SLEG AFFAIR	

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Company WESTINGHOUSE Docket/Report No. 99900404/82-02

Dates 10/26-29/92 Inspector <u>TZ.H. TBraickley</u> Page 1 of 1

NAME(Please Print)	TITLE(Please Print)	ORGANIZATION(Please Print)			
T.G. SHULTZ	MANAGER - COMPUTER SYS. ENGINEERING	NSID			
J. MLINERNEY	SR. ENGINEER	W NTO INS/MESC			
E.C. ARNOLD	MANAGER - REACTOR COMMAT SYS	TEMS-NTD			
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	and the second				
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Inspector R.H. TBRICKLEY

Scope/Module TRES Wide RANGE PRESSURE MEASUREMENT INSTS.

DOCUMENTS EXAMINED

Docket No. 49900 404 Report No. 22-02 Page / of

1	2	TITLE/SUBJECT	3	4
1	8	Safety Teview Committee tile # ID 82-189 (TCS wide Range		
2	8	Tèc channel List-Standard Plant Model 212, 312, 6 412	Variout	Various
3	3	NTD-OPP-4A(NTD/50D PDD Design Interfaces)	7/24/81	Z
4	3	WRD-OPR-3.8(Component Functional Requirements)	8/12/81	Z
5	3	WRD-OPR- 3.9 (Component Specifications)	8/12/81	2
6	2	No. 953328 Qualification (Design Verification ) of Tressure	8/3/77	
		& Differential Pressure Transmitters, Quality	3/27/18	Z
		Application	10/30/80	3
7	8	Change Control # 5962		-
8	в	Control & Clastrical System Standard # 2.30 (Electronic		
		Presure Transmitter)	9/24/74	
9	8	Port Accident Monitoring System Functional Requirements	11/15/18	
FF A		4 7 8		
			1.1.1.1.1.1.1	

Document Types:

- 1. Drawing
- 2. Specification 6. Internal Memo 3. Procedure
  - 7. Letter
- 4. QA Manual

5. Purchas Order

8. Other (Specify-if necessary)

Columns:

- 1. Sequential Item Number
- 2. Type of Document
- 3. Date of Document
- 4. Revision (If applicable)

Inspector TZ. H. TSRICKley

Scope/Module SPDS

DOCUMENTS EXAMINED

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	Z1 1	\$2 1	1	
_	1/14/21	7/10/82	1/12/82	
TITLE/SUBJECT		Dinplay)	Remarch Report &1.1057-CONRM (Human Foctors Crolination of the Technical Support Display Systems)	
7	20	₽d	¢	
	4	14	m	

Letter Other (Specify-if necessary) 

Drawing Specification Procedure QA Manual 1. 23.

Document Types:

- Purchas Order Internal Memo

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

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