ROBERT GUILD

ATTORNEY AT LAW

2135¹/₂ Devine Street COLUMBIA, SOUTH CAROLINA 29205

TELEPHONE 803-254-8132

March 12, 1985

FREEDOM OF INFORMATION

FOIA-85-173

nec'd 3/18/85

ACT REQUEST

Director, Office of Administration U.S. Nuclear Regulatory Commission Washington, DC 20555

Freedom of Information Act Request

Dear Sir or Madam:

This is a request under the Freedom of Information Act as amended, 5 U.S.C. 552 and the Commission's regulations, 10 C.F.R. Part 9.

I hereby request a copy of any and all records in your agency's possession or subject to its control regarding the October 6, 1984 Affidavit of Chan Van Vo, also known as Van Vo Davis, the concerns expressed in that Affidavit by Chan Van Vo, and your agency's action, response to and investigation of those concerns and the content of that Affidavit, including, but not limited to any and all documents regarding these subjects which are the basis for Inspection Reports 50-400/84-43, dated 12/14/84 and 84-45, dated 1/11/85.

The FOIA also provides that if only a portion of a file or record is exempt from release, the remainder must be released. I therefore request that I be provided with all non-exempt portions which are reasonably segregable. 1, of course, reserve my right to appeal the witholding or deletion of any information.

I am prepared to pay reasonable costs for locating the requested documents and reproducing them. The Act does provide, however, that you must reduce or waive fees under certain circumstances. The information sought here will primarily benefit the public since it relates to concerns regarding the safety of construction of the Shearon Harris Nuclear Power Plant, and is sought for use in the pending operating license proceeding for this facility by citizen intervenors who have raised claims regarding Chan Van Vo's concerns. I therefore, ask you to waive any fees.

If you have any questions regarding this request please telephone me at the above number.

As provided in the Act and your Regulations, I will expect to receive a reply within ten working days.

8603040241 851231 PDR FDIA GUILD85-173 PDR

Robert Guild



UNITED STATES NUCLEAR REGULATORY COMMISSION REGION II 101 MARIETTA STREET, N.W. ATLANTA, GEORGIA 30323

U.S. MAC

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FEB 1 3 1985

MEMORANDUM FOR: Paul R. Bemis, Director, DRS Roger D. Walker, Acting Director, DRP James Y. Vorse, Director, Atlanta Field Office, OI Bruno Uryc, Investigation/Allegation Coordinator

FROM: Bradley W. Jones, Regional Counsel SUBJECT: DEPOSITION OF CHAN VAN VO

On February 26, 1985 at 10:00 a.m. in Raleigh, North Carolina, a deposition of Chan Van Vo will be taken by CP&L as part of the ongoing licensing proceeding. This will be a good opportunity for the Staff to ask Mr. Van Vo, through ELD's representative, questions which might be of use in our ongoing review of concerns raised by Mr. Van Vo relative to the Shearon Harris Nuclear Plant. Mr. Van Vo's testimony at the deposition will be under oath. If there are questions the individuals reviewing Mr. Van Vo's concerns would like asked, they should be given to me no later than February 20, 1985. Also, if there is a desire to attend the deposition on the part of Region II personnel, that should be communicated to me as soon as possible.

Bradley W. Jones

cc: J. Olshinski C. Barth, ELD J. Moore, ELD



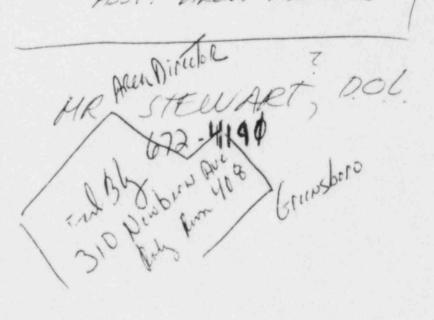
UNITED STATES

OFFICE OF

DOL., P.O. BOX 27486 RALEIGH, N.C. 27611

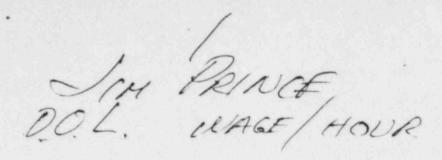
ASSIGNED TO FIS 5494 ASST AREA DIRECTOR 699-5417 DONALD ALLMAN

(919) 755-4190 JAMES V. WITHER ASST. AREA DIRECTOR



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76-72-4190



ROOM 408 FED. BIDG 310 NEW BERN AVE, RALEIGH NC.

STREET ADDRESS FOR DOL

IN RALEIGH

NRC Form 307 (11-82)	ALLEGATION DATA FORM	U.S. NUCLEAR REGULATORY COMMISSIO
1. Facility(ies) Involved: (If more than 3, or if generic, write GENERIC)	RECEIVING OFFICE (Name) Harris Nuclear Pla	Docket Number (if applicable) t 0500400 0500401 0500402
2. Functional Area(s) Involved: (Check appropriate box(es))	operations on off	faite health and safety faite health and safety nergency preparedness
3. Description: (Limit to 100 characters)	ALLEGED FALSIA QA DOCUMENTATI	EICATIONOF ION
4. Source of Allegation: (Check appropriate box)		
5. Date Allegation Received:	MM DD YY 102584 1102584	P.L. coul
6. Name of Individual Receiving Allegation:	(First two initials and last name) $_$ $_$ \angle , \angle , \overleftarrow{k}	opinson
7. Office:	OIRZ	
	ACTION OFFICE	
6. Action Office Contact:	(First two initials and last name) $_B.U$	ryc
9. FTS Telephone Number:	242-4193	
10. Status: (Check one)	Open, if followup actions are pending Closed, if followup actions are compl	
11. Date Closed		
12. Remarks: (Limit to 50 characters) 1 39		
13. Allegation Number:	Difice RIII	Veer Number A139 -84-A-0143

Rev. 3 9/81

CAROLINA POWER & LIGHT COMPANY

Exhibit 1 TP-17

SHEARON BARRIS NUCLEAR POWER PLANT

RFT 1: 6270.002 DR No. M. 403

DISCREPANCY REPORT Location or Placement No. Unit Item Activity Description 150 # 1- WS-96 ۱ FLANGE CONNECTION Violated Section of Specification, Drawing, Procedure or Other | Reporting Construction W2-129 R/3 Pan 333 - TP- 53R/0 ParA- 434 8.2508 Semeonfermance Details: Page 1 of Botting material on flange connictions TEI-230.1W596.1 + And nute to be H 194 21. Bolting material of stude to be A 193 87 and nute to be H 194 21. Bolting material hard was from 20 40924. upon unach of P.O in insult share was no wood of C. M. T. R. Nor P.O. ON FILE. UPON A CHECK WITH PURCHASING P.O. 19924 WAS FOR NON-9 BOLTING MATCEIAL, WA-129 ELH. Y NAS BEEN VOIDED ON THIS CONNECTION BY THE C.I. SUPERVISOR, NUMEVER AS OF TODAY THE FLAMED CONNECTION NAS NOT Item Evaluation Per AP-II-16: BEEN DISASSE MOLEO. Bot Reportable Per Paragraph 3.51.2 8-26-8.3 Item Traveler Required Date Construction Despection Supervisor (Attach supporting documentation.) Corrective Action & Resolution Details: Attached Documents (Specify) Data Principal Discipline Engineer Resolution Verified: Distribution: Original Jim Smith Date Procipal Discipline Engineer Construction Inspector Senior Resident Engineer Resolution Accepted: 20 CI Unit Supervisor DA/OC Unit Supervisor MRC Res dent Inspector Construction Inspection Surgervisor Date DENN 1 STR 1200 138 A138

	24	, CAF		OWER & LIG		PANY	PUR	ICHASE ORDER
			Sur ARIA -	SARIE SUCIÉAR	POMER PLA	VT	PIJRC	ASE ORDER NUMBER
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ú		a. x 2 $3/4$ " L ₂ .			10	tea.		
7	5/57 22	4. z 3' by.			- 6 0	ca.		
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1		a. 235/8" Lg.			201	ea.		
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.ion•		ng Materie l - 28 é Systems	terms and reverse si acceptanc additional	e order is subject to conditions set forth de hereof. This Orde e to the terms state or different terms rejected unless asse	on the face at er expressly limit d herein, and at proposed by th	nd its ny he	GAROLINA POWE	R & LIGHT COMPA

NCTE: And an end plance of this Order will be returned to estention of the site Pro

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A138

CAPOLINA POWER & LIGHT COMPANY

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31 3/4" Die. x 6 1/2' L.

PURCHASE ORDER

PIRCHASE ORDER SUMBER

WER PLANT CONSTRUCTION DEPARTMENT

	D	ESCRIPTION	QUANTITY	UNIT	NET UNIT PRICE	TOTAL PRICE
	5/6° Dia. x 3 5/3'	Ló.	La	ea.	-	
	5/3" Dia. x 3 3/4"	Ly.	250	ea.		-
	5/3" Dia. x 4 1/4"	L3.	12	ea.		-
	5/0" Dia. x 4 5/0"	L'3.	.8	ea.	-	-
1	5/o" Dia. :: 4 3/4"	Ly.	-110	ea.		-
	5/8" Dia. x 5 7/3"	Lg.	L12	ea.		-
	5/3" Jig. 2 6" Lg.		_40	ea.	-	-
	5/8" Dia. x 6 1/4"	L3.	10	ea.		-
	5/3" Dia. x 6 3/4" 1	L3.	167 ·	ea.	Citempie-	-
	3/4" Dia. x 3 1/4"	Lg.	112	ca.		-
	3/4" Dia. x 3 3/4"	Lg.	24	ea.	Cumulation	-
	3/4" Dis. x 4" Lg.		_500	ea.		-
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	3/4" Dia. = 4 3/3" 1	Lg.	, 12	ea.		-
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LE TERMS AND CONDITIONS OF THE FACE AND REVERSE SIDE OF THE SIGNED SHEET ARE EFFECTIVE COVERING THE ABOVE ITEMS AS HOUGH REPEATED REPEATED REPEATED.

CAPOLINA POWER & LIGHT COMPANY

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WER PLANT CONSTRUCTION DEPARTMENT

P.O. 10X 101 - 0.... 1134 2021 1 LU., C. 27562 PURCHASE ORDER CONTINUATION STEE

PURCHASE ORDER NUMBE

17

-4124

TEM	DESCRIPTION	QUANTITY	UNIT	NET UNIT PRICE	TOTAL PRICE
32	3/4" Dia. x 8" Lg.	645	ea.		-
33	3/4" Dia. x 9 1/2" LS.	1 12	ea.		-
34	3/4" Dia. x 12 1/4 ' L3.	2 45	es.	-	-
35	7/8" Dia. x 5 3/4" L _o .	6.40	ea.		-
36	7/3" Dia. x 5 7/8" Lg.	620	ea.	Same	-
37	7/8" Dia. x 6" Lg.	616	ea.	Citatianian	-
36	7/3" Dia. x 7 7/3" LJ.	20	ea.	(Statistics	-
39	7/8" Dia. n. o 1/4" Lg.	. 110	ca.		-
40	7/5" Dia. x 10 1/2" L3.	13	ea.	-	-
41	7/8" Dia. x 12" Lg.	2 60	ea.		
~	7/3" Dia. x 14 3/4" Lg.	L18	ea.		-
43	1' Dia. x 3 1/3' L _A .	2.4	ea.		-
44	1" Dia. = 3 1/4" Lg.	1.8	ea.		-
45	1" Dia. x 5 3/4" Lg.	2 13	ea.	-	-
46	1' Dia. x 5 7/0" Lg.	/ 12	ea.	-	
47	1" bis. x 6 1/4" Lg.	2 78	ea.	-	-
40	1' 013. x 0 5/0' 26.	20	30.		-
42	1 dia a 12				-
5.5	1 1/5' 512. z c 1/4" L ₅ .	. 40	34.		-
1	1 1/3° dia. = 7° L3.	38	ea.		
52	1 1/0' Din. z 7 J/4" Ls.	2.210	ea.	-	-

ALL TERMS AND CONDITIONS ON THE FACE AND REVERSE SIDE OF THE DIGNED SHEET ARE EFFECTIVE COVERING THE ABOVE ITEMS AS THOUGH REPEATED HEREON

CA "OLINA POWER & LIGHT COMPANY WER PLANT CONSTRUCTION DEPARTMENT

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CONT NUATION SHEET

.... WA 101 - 110-MET HILL, R. C. 27562 PURCHASE GREEK NUMBER

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M	DESCRIPTION	QUANTITY	UNIT	NET UNIT PRICE	TOTAL PRICE
	1 1/5" Dia. x 11" Lg.	6.96	ea.	Statilites .	-
	1 1/3" Dia. x 14" Lg.	238	ea.	-	-
	1 1/4" Dia. x 6 3/4" L3.	24	ez.		
	1 1/4' Dia. z 7 3/4" Lg.	250	ea.	2000032000	
	1 1/4" Jia. x 3" L3.	20	ca.	dammer	-
	1 1/4" Dia. x 11 1/2" L3.	24	ea.	Junior	
	1 1/4" Dia. x 13 1/4" Lg.	23	ea.	Generate	
	1 3/3" Din. x S 3/4" Lg.	1105	es.		
	1 3/8" Dia. x 10" L _o .	643	ca.	Termine-	-
	1 3/8" Dia. x 10 1/4" Lg.	120	ea.		
~>	1 1/2" Dia. z 9" Lg.	L520	ea.	accounts.	
	1 1/2" Dia. n 3 1/4" Lg.	_ 1 0	ea.		dagaan
	1 1/2" bia. x 10 3/4" Lg.	124	ca.	-	
	1 5/3" Dia. x 11 1/4" L3.	24	ea.	equilibre.	-
	1 3/4° pia. x 4° Ly.	612	ca.		S. Marco
	Items 63-76 are alloy tap and study with 1 haivy non- ut duc Her Herd with				
	3/5 Dia # 3 1/1 1 .	70	na.	-	
	7/3 242. 2 2 7/20 La.	7.2		-	-
	1" bla. x 4" Ly.	76	es.		-
	1" Die, n. 4 1/4" Lo.	140	ee.		-

L TERMS AND CONDITIONS ON THE FACE AND REVERSE SIDE OF THE SIGNED SHEET ARE EFFECTIVE COVERING THE ABOVE ITEMS AS HOUGH REPEATED REPEATED REPEATED.

CAPOLINA POWER & LIGHT COMPANY

WER PLANT CONSTRUCTION DEPARTMENT

CONTINUATION SHEE

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1	DESCRIPTION	QUANTITY	UNIT	NET UNIT PRICE	TOTAL PRICE
	1 1/3" Dia. x 4 3/3" Lg.	L12	ea.		-
	1 1/3" Dia. x 4 3/4" Lg.	7200	ea.		-
	1 1/5" Dia. = 4 7/2" Lg.	2.86	ea.		-
	1 1/8" Dia. x 5" Lg.	6156	ea.	-	-
	1 1/2' Dia. x 6 3/4" Lg.	2 76	ea.	*proventaple:	
	All material covered by this purchase order must be furnished in accordance with the following specifications:				- Apple Carto
	Stud bolts shall be threaded full length, bolts shall have hexagonal heads and be threaded full length. Both shall conform to ANSI 518.2.1 dimensions.				
	Nuts shall be heavy series her conforming to ANSI B18.2.1 dimensions.				
>	Nominal diameters 1" and smaller shall be to coarse-thread series and larger than 1" shall be 8-thread series. Stud bolts and bolts shall be to addI 51.1 Class 2A external threads. dots shall have AdSI 31.1 Class 25 internal turcads.				
	Material shall be ASTM A-193 Grade 37 for stud bolts or bolts and ASTM A-194 Grade 21 for nuts (or ASIM A-307 Grade 5 when specified).				
	Acknowledge receipt and adcoptance of this putchash order by return spil. By signing the address iss decut copy of this perchase ofter				
	in supplied in accordance with referenced specifications.				
	<pre>uuntities shipped may vary ±104. 2. Tran mater</pre>				
and the	101 - 1			1	19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

CA-1 CAROLINA POWER & LIGHT COMPANY DDR No. 1875 6/15/83 CORPORATE QUALITY ASSURANCE DEPARTMENT Page 1 of Rev. 11 DEFICIENCY AND DISPOSITION REPORT RFT No .- FOS ALTES (Procedure CQC-2) "tem/Activity Name or Description Shop Order Code Class Unit Quality Assurance No Quantity 18 7 - Gun Dint (PO & Item No.) Bus Duct, Transformerel QA-435122 4 - Terryosa Supplier or Manufacturer erial, Heat or Other Identification No. Type of Procurement Gould - Brown - Boveri CP&L PO 🗆 Transfer Der below Carlfort PH. BA-E PO ONSSS PO olation (Specification, Drawing, Procedure op Other) NCR No. Reporting Inspector Deficiency Details: House weld spice, AWS D9.1 DDR Evaluation Weld inspection revealed Construction Phase depresencies in Bus Duct and Transformers listed lulow. ¥ Engineering Phase QA Program Violation X Specification Deviation Bue Duct # CC-1 Seat. 1, CC-1 Seat. 3 Procedural Deviation x Unacceptable Workmanship CC-1 Sect. 5+6, CC-1 Sect. 6+7, CC-1 Sect. 26 CC-2 Sect. 27, CC-2 Sect. 2. X Damage/Defect Other Not Reportable* Transformer # 101, 102, 1E1, 1E2. Sice | QA HPES | NPCD QA/QC Engr. Eval. See attached wild reports for deficiency details. By -RFT No's 5,75.016,017,021,023 Date * Under Exchation by HPE3 Specialist/Engineer (19 Hald Toge applied) Thate - Does Duct installed in inaccuration to To ral Disposition: Hold Tags Removed Accepted By:____ Remarks: QA/QC Specialist/Engineer Date Verified By:_____ QA/QC Inspector Date Reviewed By: QA/QC Specialist/Engineer Date list itution: ANI Concurrence (ASME Code Section III Items Only): Orig Circitor - QA/QC SHNPP Proj. Gen. Mgr. Sr. Res. Engr. Authorized Nuclear Inspector Date Ger. Mgr. (SU/Operations) Initiating CA700 Specialist Report Closed: Advertising Mgr. - QA/Q Harris Plant Mgr. HPES BLEE Williams Director - QA/QC - Harri Date Start-Up C Fair USSS " *# Re: A138 O AN1 NR Residen inspector CA - Lean - Lofting

HIR/NOR DDR 1875

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Page 2 of 30

	Number		Rev.	Quan	Туре	1	t theorem Weld Spec. IN Marie 21
and a subject of the local division of the l			nev.	Recyd.	Weld	Def.	Details
_C-1	Sect.	/		1	I	IF	k. Stik! - there is no weld symbol on dra for these jointe, R. ha 3 filled we on bolt sides of angle type 2 plan (mild size, length and alfering a moted bular)
					T	OL	"h. 5th 1- Hi to 18" fillet 1 74" long with I "Hi" long, OL totaling I"long, 6 " conter & center "to weld (2).
						OL	6 Sthe 1- 48 fillet 1 the long with OL The los 6 4" center to center I weld 3
					I	T, mon	25th 1 - 16 fillet 1 % long with OL Totaling He long, CT He Di A., WWM Kith
2					I	IF OL	St. R. I - Ke tillet 2 % long with Or totaling long, IF Hi "Long, 7'4" center "to anter to weld O.
					T	IF	Stal - Ke fillet 1 % long with On tatal. Ke long, IF totaly to Long, 6 % " State to center to with G.
					T	IF T	Esther The filled 11/2" long with IF 1/2" her "OL The" long. R. 5 & RI- Ke" & He falled 11/4" long with It tataling " "long, OL K" long, CT "In" BIR., 6 The second to cente to meld (S)
QE ST :	Type Of M	Welds llet		Weld D	eficie	ncies	and Specification Violations
	II Squ III V - 2V Sir 7 Fla	uare Gro - Groove Mele Bev Mr Beve Mr - V Me - Sin	el 1 pt	AW AC BMR BR CR Cr Cr EC ED IF IN IN IN LI	dded W ase Me nack nater (cessin Iternal Icomple Isuffic	ve Cor L Cond te Fu L Cond te Fu Lient Lient	NPD Not Per Design NW Not Welded OUCTION OL Overlap PO Porosity SI Slag Inclusion Nexity SF Spatter (Cluster of Linear avity SS Surface Slag sion TWL Total Weld Length Throat UC Underson Weld JS Underson

MITHANER/DDR 1875

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Page 3 of 36

	Number 435-12 pector F.K. King,		konu-	Spe	_ Dra	Date 3-17-22 Date 3-17-22 Date 3-17-22 Date 3-17-22 Weld Spec.
	k Number	Rev.	1 Quan	Type	Inc	A new research research and an and an and a state produced around a second, and determine the second approximation of the second approximation
CC-1	Sect 1		1	I		CT 36" DIA, 7" center to senter of
				I	IF OL	St 5 th 1 - No fulled 1 No long with IF The long OL totaling the.
				I	AS IF OL	Dest RI- K"fillet 1 %" long with AS % long IF totaling to long, 01 % long, 6% center & caster to well D.
				I	UC OL	AS#RI-K fillt 1 1/2" long with UC = 1/32" X W long, OL 1/5" long, 7 1/8" center to center to well D.
				T	I /= DL,CT	The state fillet 2" long with I' total
•				I,I	NFD	2 + K. I drawing require a square grove will 2 % long growing fluck on one ride (panel ride), also a 1/2" fill all around. The 1/2" filled well connet
						side of Swith joint. actual weld is a groove well on the sand side 2 34"
					AS, OL	ting but is ground fluck, it is 132 to the above fluck, Opposite side of bute joint is a groome wild the "low with HS The long, Or 14" Long. he has "
				k	UC, OL IF	fillet totaling 5" in langth with IT 1/10 X1. Long, US No XI" long, CT 1/10 DIA. 2 place, UW 18 "long & place, UC = 1/2 X 1/2" long, OL T, long and IF totaling 76" long (an mat page
LEGEND:	Type Of Welds I Fillet II Square Gr III V - Groov IV Single Be V Flare Bev	ve evel vel	AW BMIR I CR CT	Added I	Weld Weld Netal R	s and Specification Violations NPD Not Per Design NW Not Welded Reduction OL Overlap PO Porosity
-	VI Flare - V VII Plug or S VIII Spot IX Shud		EC I IC I IF I IV I IWS I	Excess Interna Incomp Insuff: Insuff: Insuff:	sive Co Mal Con Slete F Scient Scient Sect We	F d Symbol UNM Unconsumed Weld Material
			Led	l near Melt Tr	. Lt.d.	on wi Weld Insurers 5 . A120

RERANCET DOR 1875

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VIII Spot IX Stud

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Melt Through

Page 40. 24

Date 8 -17-13

Mark Numbe	r	Rev.	Quan Recvd	Type Weld	Def.	Details
CC-1 &	<i>t</i> 1		1	I, IT		"h. 2 the 1 - (continued) There is 5 % a material which is NW at join the has a tatal complimed web length of 9 76 " Songer
				ΓÆ	NFD IF UC NW	22 X. 1 - drawing requires a square grown we 234 long grownd fleed on one sid crawned side), also a 1/4" fillet all around. The 1/5" fillet weld carnot I make on the panel side or commile side of built point. actual weld so a geo on the panel side 2 1/4 long lust in re ground fleed the", it in the above fleed. Re have the fillet totaling 2 H. in length with IF totaling 2 H. in length with IF totaling 2 H. of meterial which in NW at formt. R. have a total combined weld length of 4 The.
				I,V	NPD	E. YER. I- Suming requires a 1/2" fittet 1 1/2" for on 5" austera leath sites, R. 4 has I flare lunch weld on I site 4 stores type. T. 4 in 14 1/2" long E thus and welde on other side on add.
						Har 1.1 - welde are on 12" enter 1 place, 12 % center 2 places and 12 1/2" centers 1 places. Evil - IF & long, 01 % long, UC 1/2" × %. long, IW by 16 long, (13%" TWL)
	V - Groc Single B Flare Be	ve level vel V	Weld AS AN BMR CR CT EC IC	Defici Arc St Added Base M Crack Crack Crater Excess	lencie trike Weld Metal M	and Specification Violations NPD Not Per Design NW Not Welded eduction OL Overlap PO Porosity SI Slag Inclusion nvexity SP Spatter (Cluster of Linear cavity SS Surface Slar

EC IC IF IT IN	Excessive Convexity Internal Concavity Incomplete Fusion Insufficient Throat Insufficient Weld	ŲĊ	Spatter (Cluster of Linear) Surface Slag Total Weld Length Undercut
44.17	Insufficient Weld	0.5	Undersize

UC US Insufficient Weld

Undersize IVS Incorrect Weld Symbol UNY Unconsumed Weld Material Linear Indication

WI Weld Inaccessable A138

1875 RIR/NGR/DDR 1875

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Page 5 of 76 Date 8.17.87

EVEN Type Of Weids		Weld Spec.		-		Quan	1		Inspector	
$I = 0i \frac{\pi}{2} \text{ for } \frac{\pi}{2} f$					Weld		Rev.	r	Mark Number	
I = Vum Kinkl- Uwm K long (1% Twl) $V = IF Print K man (1% Twl)$ $V = IF R + 2KI - 15 K man (1% Twl)$ $V = IF R + 2KI - R5 K long (1% Twl)$ $I = R5, w R + R1 - R5 K long (1% Twl)$ $I = R5, w R + R1 - R5 K long (1% Twl)$ $I = R5, w R + R1 - R5 K long (1% Twl)$ $I = R5, w R + R1 - R5 K long (1% Twl)$ $I = R5, w R + R1 - R5 K long (1% Twl)$ $I = IF R + 2KI - R5 K long (2* Twl)$ $V = IF R + 2KI - R5 K long (2* Twl)$ $I = V = R + 2KI - 2K K long (2* Twl)$ $I = V = R + 2KI - 2K K long (2* Twl)$ $I = V = R + 2KI - 2K K long (2 K + Twl)$ $I = V = R + 2KI - 2K K long (2 K + Twl)$ $I = R5, r K$		(1/2" TWL)	"h. 1 the I - AS H L	45,5P UWM	I	1		'/	-1 - Sect	cc.
$\frac{V}{V} = \frac{1}{17} \frac{P_{1}VERI-TF}{R_{1}VR_{1}VR_{2}} \frac{V}{R_{1}VR_{2}} \frac{V}{R_{1}$		"long (11/2" TWL)	RYIKI- OL 3/1	OL						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Ho long (1/2" TWL)	AVARI- UWM ;	vwn	I					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		ing (13%" TWL)	RUCKI-IF K	IF	V					
EGEND: Type of Welds I Fillet I Square Groove II Single Bevel II State Convexity II Spot II State Convexity II Spot II State Convexity II Spot II Source Convexity II Spot II Spot II Spot II Source Convexity II Spot II Source Convexity II Spot II II Spot II Spot	147	x 1/ Long , IF hi Long (# 4xk 1-1/C =/32	UL,IF	v T					,
$\frac{1}{1} \sum_{i,j \in \mathbb{Z}} \sum_{i,j \in $	WL	7. Iw ly the Long, (14"To	R + + + + 1 - AS X. " L.	AS,IW	-					
$ \begin{array}{c cccc} I & I & I & I & I & I & I & I & I & I $	h. h	y CIS TWL)	RVAR I- AS & Los OL & Los	RS, UC EC, OL	1					
$I = IF = \frac{1}{2} 1$	*	5, IW 4/8"Ang, (1	EXARI- OL K" L TWL)	or,Iw	Ŧ					
ECEND: Type Of Welds II Weld Deficiencies and Specification Violations III Square Groove III Weld Deficiencies and Specification Violations III: V = Groove EMR Base Metal Heduction OL Overlap V = Flare Bevel CT CT Crater VI: Plue or Slot VI: Spot VI: Spot			and the second se							
V 04,11 ⁻ /2,44,1-04 %. Kay, 15 % Kay, 05 01 CT CT CT CT CT CT CT II 04,15 ⁻ M 33441- 06-%.X %. Kay, 15 % Lang, 15 % Lang, 15 % Lang, 15 % Lang, 04 % Lang, 0	we	dete protection 1/8" (2" T	Ryth 1= incomp	IP	V					
II UC, IF A JXL/- UC+KLX K. Long Jdeen, IF K. OL OL OL K. Long (2 K+ TWL) II PSLF OL PSLF AAAX IF Hile IF K. Long (2 K+ TWL) II PSLF PSLF PSLF AAAX IF LAF PSLF PSLF II PSLF PSLF PSLF PSLF PSLF <		, IF 18" Long, CT /16" DIN.	H. H&R I-OL Hilloy	OL,IT	r			- 1		
ECEND: Type Of Welds I Fillet Meld Deficiencies and Specification Violations Max Not Welds I Fillet Max And Meld Deficiencies and Specification Violations AS Arc Strike MPD Not Per Design MW Not Welded MW Single Bevel M Flare Bevel M Flare Bevel M Flare - W MEC Excessive Convexity MI Flue or Slot MEC Excessive Convexity MI Spot MEC Internal Concarity MEC Surface Slag MED Soft State Fusion MED Not Per Design MW Not Welded MW Not Welded MW Not Welded MW Soft State State MEC Excessive Convexity MI Spot MEC Internal Concarity MEC Surface Slag MED Soft State State MED State State MED Soft State State MED State State State MED State Stat	,	X 7/2 long 2 dear TE K"	A 3xh1- vc+h"	UC, IF	I					
EGEND: Type Of Welds I Fillet J Fillet JI Square Groove JI Square Groove JI Single Bevel V Single Bevel V Flare Bevel V Flare Bevel V Flare - V VI Plue or Slot VI Spot VI	ad .	long (2 4 TWL)	01 34")	OL						
EGEND: Type Of Welds I Fillet I Fillet II Square Groove III Square Groove III V - Groove IV Single Bevel V Flare Bevel V Flare Bevel VI Flare - V VI Plue or Slot VI Spot VI Spot V	5	BMK . H. X long, OL tota	EILRI- AS X Long	AS,LF CA, ARL	π					
Image: Second		K" TWL)	121							
II Square Groove AW Added Weld NW Not Ver Design III V - Groove BMR Base Metal Reduction OL Overlap V Single Bevel CR Crack PO Porosity V Flare Bevel CT Crater SI Slag Inclusion VI Flare - V EC Excessive Convexity SP Spatter (Cluster of Lin VI Flue or Slot IC Internal Concality SS Surface Slag VII Spot IF Incomplete Fusion TWL Total Weld Length				encies	Defici Arc St	Weld AS		Fillet	D: <u>Type</u>	EGEND
V Flare Bevel CR Crack PO Porosity V Flare Bevel CT Crater SI Slag Inclusion VI Flare - V EC Excessive Convexity SP Spatter (Cluster of Lir VI Plus or Slot IC Internal Concavity SS Surface Slag VII Spot IF Incomplete Fusion TWI Total Weld Length		Not Welded	NW	Weld	Added	AW D BMR 1	s	V - Groove	III	
VIL Plue or Slot IC Internal Concavity SP Spatter (Cluster of Lin VILI Spot IF Incomplete Fusion TWL Total Weld Length		Porosity	PO		Crack	CR (CT (/el 21	"Lare Beve		
IF Incomplete Fusion TWL Total Weld Langth	ear	Spatter (Cluster of Line	nvexity SP	ive Co	Excess	EC I	lot	Plus or SI	V1	2
IT Insufficient Throat UC Undercut		. Total Weld Length	usion TWL	lete F	Incomp	IF :		Spot	V L is a	

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∽ QA	Number 435	122			Drav	ving No. 5	152	2-6932	Date 8-1 Rev O	
	pector Kike King	Bu		-		Chitten >		Weld S	ipec . frime	Nona Nº L II
	k Number	Rev.	Quan Recyd.	Type Weld	Def.			Details		
CC-/-	Sect 1		,	н Ц	UC, IF	PR.1 = 01	- 1/3 = X	2 1 1 2 2 1 2 1	-1' long (2%' TW2)	
LEGENDI	Type Of Welds I Fillet II Square Gr III V - Groov IV Single Be V Flare Bev VI Flare - V VII Flug or S VIII Spot IX Stud	vel vel	ABAR COLOR THE L	Arc sti Added M Drack Drack Drack Drack Insert Drack Drach Drack D	ve Con Netal Ro Live Con Live Con Live Con Live Con Live Con Live Net Straight	Throat Weld d Symbol	NPD NW OL PO SI SF SF SF UC UC UC UC UC	Violetions Not Per Desig Not Welded Overlap Porosity Slag Inclusio Spatter (Clus Surface Slag Total Weld Le Undersize Undersize Mold Inaccess	n iter of Lines incth 16 Material	

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Date 8-17-83

	lumber 4.3512	and the second sec				wing No. 5252224910
1ns;	sector farmer A	Jocker	n/ D. 6	n/CSpec	lalis	Rhittyn Weld Spec. in Bourge
Mark	Number	Rev.	Quan Becyd	Type Weld	Def.	Details
CC.	1-3			I	us	@ Both PC. 5's to Pe. 1 US 1/8" for 7" EACH TWL 7" EACH.
				I	us	@ Pe. 6 to Pe. 1 US 1/4" for Splaces TWL 1/2" EACH.
				I	UC	D Pc.5 to Pc1 UC > 1/32" in 2 places 1/18" long encl.
				I	us	@ Both R. 5's to Pel in conner US 1/8" 4 places TWL 3' Encl
				I	IF	() R. 5 to R. 1 in Corner mas I.F 1/2" 1/2 long, 2 places.
18				I	4C.	@ Pe 5 to Pe 1 has UC > 1/32" Splatty Tett for 1/4 long.
						D Pc. 4's to Pel has UC 7 1/32" Splaces TUL 11/2" EACL.
				I	us	Pe. 4's to R.I has US 1/1" for 3 places TWL 11/2" EACK.
	생활 관람			I	uwm	DR3 to R. I has UWM
				I	U.C. EC UWM	DPC3 to Rel MAS UC > 1/32" Also UWM, ECI place, 1/4" long.
LEGEND:	Type Of Welds 1 Fillet II Square Gr III V - Groot IV Sitcle Be V Flare - V VI Flare - V VII Fing or S VII Spot 23 State	e vel el	AW PRETCORTES S	Arc st Added Base M Crack Crack Crack Crack Crack Intern Intern Intern Intern Intern Intern Intern Intern	Nake Weld Weld Ital Ital Ital Ital Ital Ital Ital Ital	Reduction OL Overlap PO Porosity SI Slag Inclusion onvexity SP Spatter (Cluster of Linear) ncavity SS Surface Slag Fusion TWL Total Weld Length t Throat UC Undercut t Weld US Undersize sld Sympt UP Unconsumer Weld Material Stion W Seld Length A138

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		H	OL IP UWM UC IF	DR. 3 to Pc. 1 has OL 1/1 long DR. 3 to Pc. 1 has DL 1/1 long Also UWM Also IF 2 places
		H	IP UWM UC IF	DRes to Pel has IF 1/18 long
		II	UC	
		I		Also IF 2 places
>			IF	(4) RE 3 to El has IF \$/32", total of 3 places.
>		I	F	TP R. 2 to Pel IF 1/16, 2 phase
>		I	us	18) R. 2 to Rel US > 1/s2' X 1" long TWL 1:
		I	uc	Pr. 2 to Pel has uc > 1/32"
		I	CT	20 Re. 4 to Pel has CT 2 places, TUL 154 EACH
				Note - The one weld on back
				side of Re. 4's to Pal drawing
				A Flare bevel .
	1			
EGEND: <u>Type Of Welds</u> I Fillet II Square Groove III V - Groove II Single Bevel Flare Bevel VI Flare - V VII Plug or Slot	e AV BMR CR	Added Base M Crack Crater	Weld Weld Metal	s and Specification Violations NPD Not Per Design NW Not Welder Reduction OL Overlap PO Porosity SI Slag Int. sion onvexity SP Spatter (luster of Linear)

UC Undercut

WT

TWL Total Weld Length

US Undersign UM Inconsult des 110 al

wold Inaccess is A138

IWC Accorrect Veld Symbol LI Linear Indication 117 Mels Through

Stud

IF Incomplete Fusion

IT Insufficient Throat IN Insufficient Weld

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VIII - Spot

IF

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	Mark Number	Rev.	Guan Reisso	Type	Def. Details	
cc	-1 Best 5 + (2	1	and the second sec	NPO & 4 to tal - drawing again a 1/2 fillet 1 1/2 on 5" contere boll elder, R. 4 I flore heret well on 1 side place two 2 h in 14 2 long (down and well on other and no and	1. 8
	•			I, V	HID R. + h. 1 - welde are on 10° centere 3 a 9° sentere 3 peles and 10 % 2 2 places.	de
				I	IF R. Y. K. R. I. Im IF % long online US . US 1% long. (1% TWL)	52
				I	US NS X 12 Long C 134 Tw	いない
,				x	US RAXELI- her OLK long, IW by 1/2 and US US Hax I"long, (I"TWL)	R.
				T	UL, CT & YEL I- has UL - "hi day X to long, CT the Iw by the and a US "Hi & I" los (I" TW h)	2
				r	UC \$4.4 x KI- her UC +/ai dage X 3/4 long and US US 1/6" to the tangent print 1 3/2 (12, TWL)	
				٢	UC, US & HAR I- have UC + 1/2" king and US / to the tangent point 1/2 (1/2" TWL]	
					Physki Les I Hi long, US Mi X 1's	
LEGE	I Fillet II Square II V - Or	Groove Sove Bevel Bevel	AS AV BXR CR CT	Arc S Added Base 1 Crack Crack Crates Excess	1encies and Specification Violations trike NPD Not Per Design Weld NW Not Welded Metal Reduction OL Overlap PO Porosity	

Incomplete Fusion

Insufficient Throat Insufficient Weld

the Incorrect Weld Symbol

Linear Inclusions Welt Through

TWL

UC

US

WT -

Undercut

Undernize.

Total Wald Longin

UMM Uncounted tools Material

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llark Lunder	Rev.	Guan Record	Type	Def.	Details
C-1 Seat 5 + 6		1	I	JF,01 IW,05	LYXXI - Low IF X long, OL % Long, IC by & and in US /si × 12 Long (1X TWL)
					CHARI- Now IN by H" and in US Mix 1. Long (114" TWL)
			x	AS, UC	I. VARI - he RS Hi Long, UC . 1/2 × 1/6 Lo IW by H' and in US 1/2 × 1/4 Lo (1 % TWL)
			r	ve g	194KI - Son UC . Bu dage X 1.K" long and in US No to the Dangant point & 155" long (154" T Wh.)
			r	Las, CR	USX /32 & the tingent patent x 1% long Since (12 TWL)
			т	OL,R	HARI- ha Or Hi hang, EC & long and in US Bix 1th hong (1/2" TWL)
			I	US	(4AR.1- how On H long and in US 1/32" X 1 long (1/2" TWL)
			I	IF, os RS, Iw, us	1.4 A.M. I - her It To Long, DA & Song T. W by Song and in US YSL X 14 Long City
			I	14. 100. Ph	HAR. I- La IF Ki long, IW by 10" entir U Bi × 114 long (11 TWL)

LECEND:	HIND VILLI	Square Croove Y + Groove Single Bevel Flare Bevel Flare + V Flux or Slot	Weld Deficiencies and Specification Violations AS Arc Strike AN Added Weld AN Added Weld STP Base Metal Feduction C3 Crack C7 Crater EC Excessive Convexity EC Excessive Convexity EC Internal Concavity EF Surface Slag EF Internal Concavity
•	VIII	Spet .	· · · · · · · · · · · · · · · · · · ·

and the second s	and the second		101	-7	6	
"Altrion	THUR		1 28	1	-	
	Pr. Pr 1	1	0	E	1	

1. 1.

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V UC, IT & HEA I- Low I US US K	Details - UC-Ki dup X I"long, CT Yh L. X", US Ki X Xh Dongol X" long (135" TWL) UC-Ki dup X X long, IF Xi L X TWL
V UC, IT & HEA I- Low I US US K	vc + Ha" dup X & long , IF Hi
	n' rues
	Kix The Long, US /Si x 1 K
I w, OL TWARI- UC	Ki da X Hi long, a Hi Long Ki al a US Xi X IX Long TWL)
I IF X++RI-IF	" TWL)
I UC, OL # YAR 1- VC	Hi day X The long, OL The Long by &, US / X IX long . X"TWL)
V UCAL XXXI- UCA US US X CIA	the day X to long, I w to 1/4"
V ucit 2 + + + + + + + + + + + + + + + + + +	In day X 1/2 long, IF X &
pin	X X Hi Long (2Hi iwi)

Flare Bevel

Flug or Slot

Flare - V

Spot

Stud

12

VIII VIII IX

CT

IF

IT

D.

1.1

NT

Crater

Incomplete Fusion

Insufficient Throat

Insufficient Weld

INS Incorrect Weld Symbol

atter Indicators

.e.t Through

PO Porosity SI EC Excessive Convexity IC Internal Concavity

Slag Inclusion SP

- Spatter (Cluster of Linear) SS Surface Slag
- TWL Total Weld Length
- UC Under 1
 - 115-Under ze
- 10.0 Uncon ...ed Weld Material
 - -el: _____ A138

	umber <u>435-122</u> ector <u>Mikr King</u> ,				Dra	1875 wine No. 52 c Rhivert	52260	4 Ru 4 216 Ru 0, Weld	Page 12 of 7 Date 8-17-9 877003 6-1 Spec. 14 - May
Mark	Number	Rev.	Quan Recyd	Type Weld	Def.			Details	
CC-1-	Bect. 5+6		1	I, I	NW UC	Burner and the states of the states	the side is and in the side is	cannel and cannel and cannel and cannel and al mell and al mell and the solution of the solution of the solution of the solution of the solution of the soluti	which in NWa
LEGEND:	Type Of Welds I Fillet II Square Gr III V - Groov IV Single Be V Flare Bey VI Flare - V VII Plug or S VIII Spot IX Stud	e vel el	AWR BCR CCC IFT WS LT	Arc St Added Base M Crack Crater Excess Intern Incomp Insuff Insuff	rike Weld Weld I cal Cor lete F icient icient ect We India	Reduction Invexity Cavity Susion Throat Held Le Symbol ation	NPD I NW I OL C PO I SI S SP SS TWL UC U US UV	Surface Sla, Total Weld Undercut Undersize Unconsumed	ign ion uster of Linear) g

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Mark Number	Rev.	Quan Recvd	Type	Def.		Details	
CC-1 Dect 5+6		1	I	AW 231.3%	h. 1 - how All	× long, E * long, E * TWL)	with IF &
			II	AW, J, BR 3, A.R.			
			I	1 10			-
			П	10.			
				NPD C.L.t.R.	1 - drawning	- require ag	we good
				02	4 long 1	in the flore	X long, a
				US	x 2" lon	+ US K "	has are US
•			r,I	NID Statel	1- training	require ago	en groom
				UC IF	Y long m	the UC + Kin X	1's long, I
				US	long and	K fill +"	long there.
		2	П	F, 50 0 1. 5.4.	2.6 - Lose I	F The Long	EC 1/4 Long
			Ħ	TW, OL # 5# 2	· IW 5 K	", DL %" (1%" T	long .
EGEND: <u>Type Of Weld</u> I Fillet II Square III V - Gro IV Single V Flare I VI Flare VII Flare VII Plug of VIII Spot IX Stud	Groove bove Bevel Bevel V	AS AW BMP CR CT EC IC	Defic Arc S Added Base Crack Crate Exces Inter Incom Insuf Insuf Incor	iencies and Sp Strike Weld Metal Reductio	NPD N NW N On OL O JI S SS S TWL 1 UC U US 1 Sol UW	Violations Not Per Desig Not Welded Overlap Porosity Slag Inclusio Spatter (Clus Surface Slag Total Weld Le Undercut Judersize Inconsumer We	gn on Mer of Linea Angth - d Material

Melt Through MI

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J Insp	ector Mile King	, Buc	kan	Spec	cialist	Ruorthand	Weld Spec. Man
Mark	Number	Rev.	Quan Recyd.	Type Weld	Def.		Details
CC-1 .	Sect 576		1	I 4	NID	1/2 long	having requires & for equally spaces on 9" bate sides, evelop
				H.	us NPD	1.542.1 - in US) 1. in 34 and in 1 36.	for enter to senter of
				I	US, MS	25741- in US K	* Xi × 2" long, AS 4" 1 monter to adjuge any 2" TWL)
				I	US	Esth I- in USA	"x 1 34" Long . (134" TWA
				Ŧ	MS	Ksthl - in US K	(2" TWL).
•				I	ws,Tw	25#R.1 · US 1/2"X	(1% Twil)
				I,I I,I	IW, 14, us US, 56	8193 BR.6 # R.7 - Jan filler Co Pr. 13 R.7 Jan I Sie US 1/3 (8)	IW Hi hay, IF Ho have IW Hi hay, IF Ho have well in US 52 × 2 5" h The Twe) F Mi long, filled and X 2 × long
EGEND :	Type Of Welds I Fillet II Square III V - Gro IV Single V Flare B VI Flare - VII Plug or VIII Spot IX Stud	Groove ove Bevel evel V	AS AW BMF CR CT EC IC IF	Arc St Added Base M Crack Crater Excess Intern Incomp	Lencies trike Weld Metal R Sive Constant Constant Constant Lete F	and Specification NFD NW eduction OL PO SI nvexity SP avity SS usion TwL	Not Per Design Not Welded Overlap Forosity

LI Linear Indication WI Weld Inaccessable A138

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				IR/:		1875	16 7 1-14	1.4	Page 1505 3 Date 8-17-9
	umber 4351			Spe	bra cialis	t Place	5-226	7/6 £.0, 9 Weld	Spec. 2 200 3 Ker
Mark	Number	Rev.	Quan Recyd	Type Weld	Def.	1.1.2.2.2.2		Details	
CC-1 .	800\$ 546		(IF,us	Ph. c.t. h.		TF te lon	tog 2 place
)									
LEGEND:	Type Of Welds I Fillet		Weld	Defic	iencie	s and Speci	ficatio	n Violations	5
•	II Square Gr III V + Groov IV Single Be V Flare Bev VI Flare - V VII Plug or S VIII Spot IX Stud	ve vel vel	AW BMR CR CT EC IC IF IT IW IWS LI	Added Base 1 Crack Crates Excess Intern Incom Insufi Insufi Incom	Weld Metal r sive C nal Co plete ficien ficien rect W r Indi.	Reduction onvexity ncavity Fusion t Throat t Weld eld Symbol catlot	NW OL PO SI SP SS TWL UC SS	Overlap Porosity Slag Inclus Spatter (Cl Surface Sla Total Weld Undercut Under size Inconsumed	tion Luster of Linear

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Page 14 0: 30

i.e.

Mark Number	Rev.	Quan Recyd.	Type Weld	Def.	Details
C-1 Sect. 6+7		1	V,I	NPD	Photok 1 - drawing require a . 4" tong, the low a flow
				IT	long with IT /sex
				US	
			Y,I	NW	Rotal 1 - drawing requires a squ
				US	
				US	and US 16 * 1" long. Sic" long. (10th)
			I	IT	Ph. 5 * KE - how IT 1/2" X 1.
	14				" sthe le Iw the long
			I	MPP	Mote - R. 5 to Re. 1 drawing 1/2" Long squally a contine on both sis
					centere on both sis
			I	US	Ph Sth. 1 - how IW Ay 1/2" long I" long CI" TWI
			I	IW	2.5xh1-in US K # K X 2 2.5xh1- An IWK 4, US K (1% TWL)

LEGEND :	Type Of Welds	Wel	d Deficiencies and Speci	ficatio	n Viclations
•	I Fillet II Square C III V - Groo IV Single B V Flare Be VI Flare - VII Plug or VIII Spot IX Stud	AS Groove AW ove BMP devel CR evel CT V EC Slot IC	Arc Strike Added Weld Base Metal Reduction Crack Crater Excessive Convexity Internal Concavity Incomplete Fusion Insufficient Throat Insufficient Weld Incorrect Weld Symbol	NPD NW OL PO SI SF SS TWL UC US US	Not Per Design Not Welded Overlap Forosity Slag Inclusion Spatter (Cluster of Linear) Surface Slag Total Weld Length Undercut Undersize

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Date 8 . 17 . 83

Mark I	Number	Rev.	Quan Recyd.	Spec Type Weld	Def.	Details
CC-1 .	Sect 6+7		1	I	US	% 5 th 1 - US 1/6 " A The X 2" long (2" TWL) senter of weld in 4 1/8 to edge of ongle 10 1/8" center to center of well Q.
				I	VS	" Stok 1 - US X & # Thix 2" long (2" TWL) conter of weld in 31/2" to edge of an
				~	NIO	R. 4 the 1 - drawing require a 1/2" fillet 1 long on 5" centere liste sides R. Phone I flare lunch well on
						side 7 place typ also I ald side in NW. Te I in 14/2" long (the al well on other side on sole
				T	NPD	Petto R. 1 - wilde one on 91/2" centere 3 plow, 93/4" centere 1 plan, 10" centere 1 plose and 10% centere 3 places.
				I	UÇTL	"http:/- UC = 1/3" tolaling " long, IW by 4 (14" TWL)
				I		" + + + + 1 - UC - 52" × 7" long, IW by 14" long (14" TWL)
				Т	UC,UM IW	The stat 1- ve + 12" X X' long, UWM Ke" long IW ly 12" long . (1"TWL)
				I	UC, MA	The Att R 1- W = K2" X X long, UWM K8" long IW ly Ke" long, (1"TWL) "AVER. 1- UC = K2" totaling " long, UWM K8" IW ly K" long, (1% TWL)
GEND:	Type Of Welds		Weld	Defic	iencie	s and Specification Violations
	I Fillet II Square C	roove	AS	Arc S Added	trike Weld	NPD Not Per Design NW Not Welded
	III V - Groo	ve	BMR	Base	Metal	Reduction OL Overlap
	IV Single E V Flare Be			Crack		PO Porosity
	VI Flare -			Crate Exces		Onvexity SP Spatter (Cluster of Line
	VII Plug or		IC	Inter	nal Co	ncavity SS Surface Slag
	VIII Spot IX Stud		IF	Incom	plete	Fusion TWL Total Weld Length
	TV SCUO		IT IW	Insuf	ficien	t Throat UC Undercut
						eld Symbol UNM Unconsumed Weld Material
			LI	Linea	r Inti	cation WI Weld Inaccessable A138

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						819354 Kw.4 Date 8-17-8
	lumber 4351,		,		Dr	awing No. 525222916 200, \$77003 200
*1135	ector M. Ke King ,	But	ckner	_ Spec	ciali	st Phit this Weld Spec. With Born
Mark	Number	Rev.	Quan Recvd.	Type Weld	Def	Details
CC-1	Sect. 6+7		1	V	IT, UC IP	long, incomplete penetrate 3/10" long (1/2" TWL)
				I	UC, IG	DE. + + R. 1 - UC - 1/2" X 1/4" long, I w ly 1/2" long (1" TWL)
				I	UCIC	ORNALI-UC 32 X 2 long, IW by " long (14" TWE)
				I	IFOU	IN & & long, UC=/32"X Ho Long, IW & & long (136" TWL)
				I	uc,Iu	OR Htt. 1 - UC - 1/2" X The long, IW by 14 long (124". Tw L)
•				V	US US	B. + the 1- UC = 1/2 X 1/4 long, I W by 1/5" long, US 1/5 to the tongent print X 1 1/8 long, (1 1/8" TWL)
				~	US	Petter. 1- US Xi" to the tangent point x 1/2" long (1/2" TWL)
				I	us IW	2+4 KEI-US 1/2" # 1/2" X 1/2" long, IW 1/4" long (1/4" TWL)
				I	τw	2.4 2. 1. 1- UC>/si X 7. "long, IW by 1/4" long (11/4"TWL)
					IW	P. 4 2 R. 1 - UC > / 2 X X I long, IW by / hog (1%"TWL) P. 42 R. 1 - I W by X" long (1%"TWL) P. 42 R. 1 - UC = K2" X % C long, IW by %" long (1%" TWL)
					IW	(14"TWLS
LEGEND :	Type Of Welds I Fillet II Square Gro III V - Groove IV Single Bev V Flare Beve VI Flare - V VII Flare - V VII Plug or SI VIII Spot IX Stud	e vel el	AW BMR CR CT EC IC IC IF IT IW IWS	Added Base M Crack Crater Excess Intern Incomp Insuff Insuff	encie rike Weld etal ive C al Co lete icien icien	s and Specification Violations NPD Not Per Design NW Not Welded Reduction OL Overlap PO Proposity SI Slag Inclusion Onvexity SP Spatter (Cluster of Linear) neavity SS Surface Slag Fusion TWL Total Weld Length t Inroat UC Undercut A138 eld Symbol UNM Unconsured Weld With the

HIR/NC DDR 1875

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Page 19 01 2

	lumber 475-12 vector Mike King,		kan-	Spec	Dri	awing No. 52522 1916 Luc 9, 877003 Luc st_ Pluble A Weld Spec. Market
Mark	Number	Rev.	Quan Recvd	Type Weld	Def.	Detaile
CÇ.1	Dect. 6+7		1	1	vs	" + + + + 1 - US 1/8" to the temper point X 1 7%" how (1 7%" TWL)
				v	UC	A. + ± k. 1 - UC - 1/3 × 2" long (2"TWL)
				I	UCUS	27. ++ R.I-UC= 1/2" X 3/1" long, US 1/3" + 1/1" X 1%" long. (1"1" TWL)
				I	ve Iw	". 4XRI-UC=1/2"X " long, IW Ly K" long (14" TWL)
				I	x	R. 4x R. 1-UC = 32"X 1" long, (134" TWL)
				I	υς Ιω	(14" Twh)
				V	US	" Htk 1 - US X X 1 78" long (175" TWL)
-		• •		TT	US	2.4xh.1- us 1/ × 13/ "long (13/ TW2)
				-,	NPC	22 2 2 R. 1 - drawing requires a square grow we 2 2 Long ground fluck on one side (panel side), also a 1/2" fillet all are The 1/8" fillet samuet be made a the panel side or opposite side of the soint. article
					10	fort. actual wild in a groome a on the panel side 21/2" long on requir with PO.9 prese totaling The in lings Have a 1/2" fillet 3/4" long 2 places There is 10 The" of material which in N at init.
					NW	at joint. How a tatel which in N weld length of 4 1/4.
EGEND:	Type Of Welds I Fillet		Weld	Defici	encie	s and Specification Violations
	II Square Gr III V - Groov	oove	AW	Added	Weld	NPD Not Per Design
	IV Single Be	vel	BMR I CR I	Base M Crack	etal	reduction OL Overlap
	V Flare Bev VI Flare - V	el	CT	Crater		PO Porosity SI Slag Inclusion
	VII Plug or St	lot	EC I IC I	Intern:	ive Co	SF Spatter (Cluster of Lines)
	VIII Spot IX Stud		IF :	Incomp!	lete I	Fusion Tr Tatal Slag
	TV SENG		11 1	Insuff:	icient	t Throat UC Undercut
			IWS 1	Insuff	ect 1'	US Undersize A158
			LII	inear	Ind	at WT Unconsumed Weld Material

			R	R/NC:-	DDR 18	75			Page Dave a
						1997			Page 2 cof
	lumber 4351			•	Drawin	18 No. 52	9354	16 . 0	Date 8-17-9
Insp	pector <u>MikeKins</u> ,	Bu	chan	Spec	ialist_	Rut	And		Spec. IN Hay Star
Mark	Number	Rev.	Quan Recvd.	Type Weld	Def.			Details	
•	Sect. 6 + 7			п п	ALUUNA IF UC AUUNA UWM WIAN EC, IF UC	14 14 14 14 14 14 14 14 14 14	A and	long in "Long i	the side of the second side of the side of the side of the second side 2% and side 2% and side of the side of the side of the second se
LEGEND:	Type Of Welds I Fillet II Square Gro III V - Groove IV Single Ber V Flare Beve VI Flare - V VII Plug or SI VIII Spot IX Stud	e vel el	AW BMR CR CT EC IC IC IF IT IW IWS	Added I Base Me Crack Crater Excess: Interna Incompl Insuffi Insuffi Incorre	гіке	exity vity lon lroat 21d Symbol	NPD N NW N OL O PO P SI S SF S SS S TWL T UC U US U	urface Slag otal Weld I ndercut ndersize	ign ion ister of Linear)

1. Sec. 10.

	umber 435		2		Dra	1875 819354 204 Date 8-17-82 Wing No. 525221916 Rulo, 877003 Rulo at Philotth & Weld Spec. M. Maria Wi
Mark	Number	Rev.	Quan Recyd	Type Weld	Def.	Details
CC-1	Sect. 6+7		1			Note - 39 three. 42 wer Drawing " 819354 to 4
				I, <u>I</u>	NW	The 6 th R. 7 - full is NW 2 %" long, Symm groom will be IF totaling 1" (Kow 6" TWL)
				I,II	NW	Elith 7 - fillet in NW 256 long, Square
				I,I	NW	From ha OL 14" long (6" TWL)
•					NJOLF I	PROTRI- fillet in NW 25%" long, & que groove he UC - 1/32" X 4" long, & que OL 1/4" long, IF totaling 78" (6"TWL)
						\$2.12.83
LEGEND:	Type Of Welds I Fillet II Square Gr III V - Groom IV Single Be V Flare Bey VI Flare - V VII Flare - V VII Flug or S VIII Spot IX Stud	ve evel vel V	AW BMR CR CT EC IC IF IT IW IWS LI	Added Base M Crack Crater Excess Intern Incomp Insuff Insuff	Weld Metal Nive C Nal Co Nal Co Nete Nicien Nicien Nicien	Reduction NW Not Velded NW Not Welded OL Overlap PO Porosity SI Slag Inclusion onvexity SP SP Spatter (Cluster of Linear) ncavity SS Fusion TWL t Throat UC Undercut t Weld eld Symbol UWM Unconsumed Weld Material Sation WI

RER/NCR/DDR 1875

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Page 22 .: 3.

OA Num	ber 435	-177			Dura	Date 8-17-87
Inspect	tor Jame Is.	Jack	~ P.C	* Ksper	cialis	t Rundand Weld Spec. IN House wel
Mark Nu	umber	Rev.	Quan Recvd.	Type Weld		Details
CC-1	26					D BOTH Preses To Pe 1 HAS NO Weld symbol ON DRAWING
				I		QR5 to RI HAS HUM.
				I	CT	3 Pest. Pel HAS CT "/3" X 18" Long 2 PLACES.
				I	45	B Pe 4 To Pel US "32" 4 PLACES. 1" LONG - TWL 11/2" 4 PLACES.
				I	1 1	@ Ac 4 t. Ac 1-OL I PLACE 3/16" Long
				I		@ Retto Re I NWM- 3 PLACES
				П		@ Pc 3 to Pc 1 - 1 = 44" Long TWL 3"
•				I	uwn	@ R3to RI UWM I PLACE.
3						D Ac 3 t. P. I UC, 3/32" EACH. 2 PLACES TWL 1/4" EACH.
						@ A4 to AI-CT 1/16"Long - 1 PLACE .
				I		A Rea To Pel Ner 1/32" EACH
				I	uwn	1 Pez To Pel-UWMU.
				I		@ A= 2 to A=1 IF - 1/32" EAch 2 PLACES.
LEGEND: T	Type Of Welds I Fillet		Weld	Defici	iencie	s and Specification Violations
	II Square Gro III V - Groov IV Single Be V Flare Bev VI Flare - V VII Flare - V VII Flug or S VII Spot IX Stud	ve evel vel I	AW BMP CR CT EC IC IF IT IW IWS LI	Arc St Added Base M Crack Crater Excess Intern Incomp Insuff Insuff	trike Weld Metal I sive Co nal Cor clete I ficient ficient rect We r Indic	NPDNotPer DesignNWNotWeldedReductionOLOverlapPOPorositySISlagSISlagIncavitySFSpatter(Cluster of Linear)ncavitySSSurfaceSlagFusionTwLTotalWeld LengthtThroatUCUndersizeA138eldSymbolUMMUnconsumed Weld MaterialcationWIWeldInaccessable

			R]	R/NGR	DDR	1875			Page 2 3 of 74
CA Number	.12	-19	-				1.14		Date 8-17-17
Inspector	+3.	212.	<u> </u>		Dra	wing No.	325222		BROWN BOVER
				- Spec	1a115	t_ Rhiof 1	And	weld S	pec. IN HOUSE WE
Mark Number	·	Rev.	Quan Recyd.	Type Weld	Def.			Details	
CC- 1- 2	6.			I	uc	1 PL NoTe	Ace. - THe	Pe 1 M ONE Weld 4 ¹³ To. Pe 1/8" Fille FIRRE	on Back
•									
I II III IV V VI VI VII VIII	Of Welds Fillet Square Gro V - Groove Single Bev Flare Beve Flare - V Plug or Sl Spot Stud	el 1 ot	AW BMP I CR (CT (EC I IC I IF I IW I IWS I LI I	Arc St Added I Base M Crack Crater Excess: Interna Incompl Insuff: Insuff:	rike Weld etal F ive Co al Cor lete F icient icient set We Indi	Reduction Drivexity Marity Tusion Throat Weld Id Symbol	NPD No NW No OL OV PO Po SI S1 SP Sp SS SU TWL To UC Un US Un US Un	ot Per Desig ot Welded verlap prosity ag Inclusic patter (Clus prface Slag tal Weld Le pdercut	n ter of Linear) ngth AI38 1d Material

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						<u>iers</u>			Fage XYOI JU
- QA	Number 43	-12	2		Dra	uting No.		21932	Date 8-17-8
	pectorg. b. Jac	1	1 1 1	+ Sner	- ialie	+ R	424	26732	Spec Baner - Borger
	7 ca - Jan	83602	D. 990	i oper	-14113	- Milot	un	Weld	Spec Manuel an
:tari	k Number	Rev.	Cuan Recvd.	Type Weld	Def.			Details	
cc-2	SECTION-27		'	I	NNS	0	25'3	To RI-N	NELD SYMBOL N DRAWING.
				НН ННН	CT OWM IF CT OL UNM	GEGEE		UK II CT	DiA 1/32X 1/32
				ННН	UC IF US	000	R27	DWG.	C 7 1/32 1 PLACE F 3/32 Love 1 PLACE 1/8") US 1/2 X2 TNL-2 PLACES
LEGEND: Type Of Welds		II UNA OL MEL	8		ARAC IF % UWM RI- OL UW EC	3 PLACES 1/4" I PLACE m I PLACE I PLACE			
			I	02	BEA FLAN NOTE - WI CENTER	E BEU	OL 1 VELD ON BACK ALLS FOR 1/3" , EL . N PC 4'S TO) ACH.	M I PLACE SIDE OF RYSTO FILLET, BUTSMON PCI ARE OFF	
	<u>Type Of Welds</u> I Fillet II Square Gro III V - Groove IV Single Bev V Flare Beve VI Flare - V VII Flare - V VII Plug or SI VIII Spot IX Stud	e vel el	AM BE C. TEC LIC LI LI LI LI	Added Base M Crack Crater Txcess Intern Incomp Insuff Insuff	Veld etal F ive Co al Cor lete F icient icient ect We Indi	eduction nvexity usion Inroat Weld Id Symbol	NPD NW OL PO SI SP SS TWL UC US UWM	n Violations Not Per Desi Not Welded Overlap Porosity Slag Inclusi Spatter (Chu Surface Slag Total Weld I Undercut Undersize Unconsumed W Weld Inacces	lon uster of Linear Length A138 Weld Material

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		n i	ER/NCR/	DDR_	1875 Page 25 of 76
- 01 Number 1/2				+	\$ 77003 R/0 , Date 8-17-83
	5/2	2 P. Caul	Sper		PI BROWN DATA
t the particular	Low			Lialis	t Philo Hand Weld Spec. IN House we Spec.
Mark Number	Rev.	Quan Recvd.	Type Weld	Def.	Details
Mark Number Rev.		/	Нинини инина	IF US US US US US US US US US US US US US	 Prel To Pel-IF 4" Long 2 PLACES Dwg (1/4") us 1/4" x 5" Twl-5" Dwg (1/4") US 1/4" x 5" Twl-3" Fre 5 To Pel us 1/4" x 5" Twl-3" Fre 5 To Pel us 1/4" x 5" Twl 1/4" Dwg (1/4") Twl-11/2" EAch Pe 4 To Pe 1 us 1/3" x 1/3" Twl 1/4" Dwg (1/4") us 1/32" x - 1 Place. Dwg (1/4") us 1/32" x 1/2 Long Twl 1/2" Pe a To Pel-IF 1/32" 5 Places.
					TOTAL COMBINED Weld Length OF 4". Note: Both ENDS OF PC2 AREBENT (1 side each) B ACHTO ACI Dwg ("") US '32" X 1'/2" Long, 2 PLAces U WM - I PLACE B AC 3 TO ACI IF '32" CT '116" Long I PLACE B AC 3 - IF = '32" TWL 1'2" B UC > '32" TWL 1'2"
LEGEND: Type Of Welds I Fillet II Square Gro III V - Groove IV Single Bev V Flare Beve VI Flare - V VII Plug or SI VIII Spot IX Stud	e vel el	AN BMR CR CT CC EC IC IC IC IF IV IWS LI	Arc St Added Base M Crack Crater Excess Intern Incomp Insuff Insuff	Weld Weld Metal H Nive Co Nal Cor Vicient Vicient Vicient Vect We Vindic	ation WI weld in asserts A139

RIR/NER/DDR 1875

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Date 5-17-13

•	QA Number 43 Inspector 9. 20	5-122 achor	D. (10	K Spec	Dra	wing No. 3	2522	L. 906 R/o Weld Spec	BEOWR DANK
	Mark Number	Rev.	Quan Recvd.	Type Weld	Def.	1		Details	JAY House Wek
•	C C 2 - 2			HHH H HH H	45 45 45 1F 45	() Ac 3 To Ac 4 To D Ac 3 To D Ac 3 To D Ac 3 To D Ac 5-1	R1 11 2 21 21 21 21 21 21 21 21 21 21 21		PLACE 115 TWL 115" 12" TWL 115" Ach. 212 Ach. Jug(18 212 Ach. 3 PLACES ACE.
LEGE	ND: <u>Type Of Welds</u> I Fillet II Square III V - Gro IV Single V Flare F VI Flare - VII Plug or VIII Spot IX Stud	Groove Dove Bevel Bevel	AS AW BMF CR CT EC IC IF IT IW IWS LI	Arc St Added Base M Crack Crater Excess Intern Incomp Insuff Insuff Incorr	Weld Metal Nive C Nal Co Nete Nicien Nect W	Reduction Convexity ncavity Fusion t Throat it Weld eld Symbol cation	NPD NW OL PO SI SP SS TWL UC US US US	Not Per Design Not Welded Overlap Porosity Slag Inclusion Spatter (Cluste Surface Slag Total Weld Lens Undercut Undersize Unconsumed Weld Weld Inaccessat	A 138 Material

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Mark Number	Quan Recvd	Type Weld	Deficiency		Details
01	,	¥II, I	IF UC IF AS UC IT	IF I"L	the long 2 place added to "long 2 place , IF to alace and UC - to" do y 3 place . Weld I by drawing the place , AS to long ! place , AS to long ! place , US
		v17,I	IT	Southeast Re Southeast Re 54 los to los vild in 1 place.	Ttop: 1 have added in 2 place. Have 1 2 place. Have 1 2 place. How 1 IT Xi X 4 love 1
		VII,I	US	Northwest Pe 3 wild 5 Hor vc	K R. I han added 4 Long 2 place * S2" Long 2 place * Long 2 place * Long 2 place * Long 2 place
EGEND:			c 7	i place .	e c T 1/8" dimeter
Type of Weld I Fillet	-	A.	Arc Stri	cies and Specific Ke N al Reduction O	W Not Welded

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Contraction of the second s		. Porterationed Tile color		100 1101ations
Fillet Butt (Full) Tee (Full) Tee (Partial) Stud Spot Flare Bevel	CR CT	Arc Strike Base Metal Reduction Crack Crater Excessive Convexity Internal Concavity Incomplete Fusion Insufficient Threat	NW OL PO SI SP SS UC	Not Welded Overlap Porosity Slag Inclusion

HIR/NCE/DDR 1875

QA Number 43 Inspector A.K. Ki	ny, Buc	lan-	Specialist	Phone No. 625978 Lu 44, 640103
Mark Humber	Quan Recvd	Type Weld	Deficiency	
101	1	VII,I	IF, ct UC US	Douttment 1. 3 to 1. 1 Jun odder SX" long 2 places. How IF He" long 1 place, CT diameter 1 place, UC > 5. + 1/8" long 2 place ord in US 1/1" & 1/2 long 1 place. (owe 3.") ()
		T	ve	Court 1.3 to 1.6 inside wild South 1.3 to 1.6 inside wild comment be inspected for my due to fatisetion, the UC= %. Lup + %. Long 1.2
		I	ve	North h. 3 to K. 6 outside welde normant be imported for sig due to policiention, how i "his day + This long I place.
		VII	us Vc	R. 18 to k. 9 in US to the ta point by the X 1" long 34 UC > 32 X 5" long 2 place and drawing sequine 11/2" 1 meld, he. how 11/4" long se
		Ţ	IF	E. 9 (Assembly) weld sige com Le inequated due & folm 142° & 245° & weld in instancelle for inequation & folmication, Son IF Fre

Type	of Welds
I	Fillet
II	Butt (Full)
III	Tee (Full)
IV	Tee (Partial
7	Stud
VI.	Spot
1.0.8	Flare Benel

Weld Deficiencies and Specification Violations

AS.	Arc Strike	NW	Par Handard
BMR			Not Welded
	Base Metal Peduction	CL	Cverlap
CR	Crack	PO	Peresity
CT	Crater	SI	Slag Inclusion
EC	Excessive Convexity	SP	
IC	Internal Concavity	SS	Spatter (Cluster of Lines Surface Slag
IF	Incomplete Fusion	UC	Undercut
IT	Insufficient Threat	115	Undersize
MT	Melt Through		

A138

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PIR/NER/DDR 1875

Page 21 of 36 Date \$-17-87

Brown Dorece # QA Number 475122 Drawing No. 625978 Ker 44 +640103 Rad Inspector Mike King, Buchner Specialist Rut 40 Weld Spec. AUS-D9.1 Quan Type Deficiency Mark Number Details Recvd Weld 102 Southwest R. 3 to R. I have added welk 1 FIS, I AS 54 long 2 place with AS He long I place and NC = 1/2" day + 1/3" long I place. La US Si X 6" long I place. UC US (owo %") (18" weld length). northinial to 3 to Pe. I have added weld VII, I TF 5 1/4" long 2 place with IF 14" long 1 place. de US 1/32" X 7 2" long 1 place (puc 3/6") 05 (18" weld Sangth). Rotheast Pc. 3 to R. 1 how added wells. Du Stanlong & place with UCrts " Depr 1 long 1 place. How unconsumed wald wire in VI,I VC wild "4" long 1 place. Southeast 1. 3 to k. 1 how odded will VII,I 54 long 2 plone . How unconcurred with wire in Douth the 6 to the 3 inside welds an I 12.6 connot be inspected for size due to fabrication .

LEGEND :

Type of Welds

I	Fillet
II	Butt (Full)
IIT	Tee (Full)
IV	Tee (Partial)
V	Stud
IV	Spot
VII	Flare Bevel

Weld	Deficiencies	and	Specification Violations

AS	Arc Strike	NW	Not Welded
BMP	Base Metal Reduction	OL	Overlap
CR	Crack	PO	Porosity
CT	Crater	SI	Slag Inclusion
EC	Excessive Convexity	SF	Spatter (Cluster of Linea
IC	Internal Concavity	33	Surface Slag
IF	Incomplete Fusion	110	Undercut
IT	Insufficient Throat	ite.	Undersize A138
MT	Melt Through		AISO

		\$	RIR/NGR/DDR	1875	Page 30 of 76
					Date 8-17-83
QA Number 435	-122		D	Brown Bornitt Drawing No. 625-978 Kg	
Inspector Mike Ki		hur	Specialist	Phitting Weld	Spec. AWS-D9.1
	Quan	Type	1		
Mark Number	Recvd	Weld	Deficiency	Details	
02	1	I		n 11 + 1 + 1 7	til sul
		-		Roth R. 6 to h. 3	the improted
				for arge due to	polication . H.
		1988	AS	AS 4" log 7,	folmication . Ho clove , AS Ke" and UC > 1/1" de ca (6 % " mild les
			UC	song place	and UC >he de
			00	the song i pu	a (6 % mild sing
		VE		Pels to Pel drawing a	mines a flore
		1		lund mell)	12 limes lis
				have melde 2" 1	my 1 place ;
		6		1 % long 2 pt	acons 124 long
		1		song for	nd five uner
				eneld ensure in me	la re singite
				Pc. 9 to Upper Horizon	ntal Channels.
				drawing region	a flare line
				wild & long	The ta have
			ALC: NO	long 1 place	ory 1 place , 13
		1.		/	
				Pe. 9 (Assemany) will	I size connot be
				inquested due 1 142" of 245" 00	to folication,
		1000		is Tinococuralit	mother the of our
				due to policate	ford he
		1.1		uncomused we	
	1		14.5	weld " long	
	1.1	00.001			
		1000			

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Type of Welds

I	Fillet
II	Butt (Full)
III	Tee (Full)
IV	Tee (Partial)
V	Stud
VI	Spot
VII	Flare Revel

Weld Deficiencies and Specification Violations

AS	Arc Strike	NW	Not Welded
BMP	Base Metal Reduction	OL	Overlap
CR	Crack	PO	Porosity
CT	Crater	SI	Slag Inclusion
EC	Excessive Convexity	SP	Spatter (Cluster of Linea
IC	Internal Concavity	SS	Surface Slag
IF	Incomplete Fusion	UC	Pland and a second s
IT	Insufficient Throat	US	Undersize A138
MT	Molt Thread		

TERTHERT DDR 1875

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- Y Mar 14

Mark Number	Quan Recvd	Type Weld	Deficiency	Details
FI	/	VII I	UC UC UC UST	Routhened R. 3 to Re 1 how income persetation 234" Long 2 UC + 1/1" deepe X 1/4" Long 1 p UC + 1/1" deepe X 1/4" Long 1 p UC + 1/1" deepe X 1/4" Long 1 p UC + 1/2" deepe X 5 1/2" Long 1 UC + 1/2" deepe X 5 1/2" Long 1 US 1/2" to 1/6" X 5" Long 1 ord IT 1/2" X 3" 1 place (18" sailed lang th).
		VII I		Sauthenest Pe. 3 to Pe. 1 han incom penetration 2 History 2 peter VC - 1/32 atopax 2 % long 1 peter UC > 1/1" day x 1/4" long 1 peter UC > 1/1" day x 2% " long 1 peter UC > 1/1" day x 2% " long 1 pe Od in US 1/1 X 5 %" long 1 pe C 18" mild legtx)
		I	UC U	Northeast he 3 to he 1 hor men persection 2 % long 2 de UC = 1/2 dege + 1/2 long 1 de UC = 1/2 dege - 1/2 long 1 de

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Type of Welds

1.1 II

IV

VI.

Fillet

II Butt (Full) III Tee (Full)

Stud

Spot VII Flare Bevel

Tee (Partial)

Weld Deficiencies and Specification Violations

AS	Arc Strike	176	Not Welded
BMD	Base Metal Reduction	0L	Overlap
CP	Crack	PO	Forosity
CT	Crater	SI	Slag Inclusion
EC	Excessive Convexity	SF	Statter (Cluster of Lire)
IC	Internal Concavity	SS	Surface Slag
IF	Incomplete Fusion	110	Undercut
IT	Insufficient Threat		Indersize A138
MT	Melt Through		

PTR/NGR/DDR 1875

Pare 32 of 36

Mark Number	Quan Recvd	Type Weld	Deficiency	Details
EI	,	v II I		Doutheast the 3 to the 1 how is permittation 2 the forg UC = 1/32 dege + 2 1/8" long UC = 1/32 dege + 1/2" long UC = 1/32 dege + 3/2" long (18" wild longth)
				South Te 6 A R. 3 size is un to inquict on inside of due to fabrication , 1 due X 2%" long 1 place , deg X 2 %" long 1 place , deg X 3" long 1 place ,
	~		AS AS OUC	North 1.6 to K. 3 wild size , to inspirit on outside due to fabrication of long 1 place, AS 12" long AS 14 long 1 place, UC X 1" long 1 place, UC X 1" long 1 place of UC dup X 1 " long 1 place.
		VII		R. 9 to "Aper Horizontal Ch here & Flore Devel borry that are not ry drawing. has 2 well incarriable due to fot

LEGEND :

2. 4

Type of Welds

I Fillet II Bott (Full) III Tee (Full) IV Tee (Fartial) VI Stud VI Stud VI Stud VI Stud

weld	Deficiencies	ad Specification Violation	
STRUCTURE CONTRACTORS	and and and the rest rates from a dealer of the local sectors.		1.20

AS	Arc Strike		Not Welded	
EMP	Base Metal Peduction	22	Overlap	
CR	Crack	50		
CT	Crater		Peresity -	
EC	Excessive Convexicy	2.5	Slag Inclus:	
IC	Internal Concepty	100	Clarger (Clu	ster of Lines:
IF	Incomplete Fucion	1. 5. 5.	Surface Slag	
IT	Insufficient Threat		incensus	4120
117	Tell Trender		Thereize	A138

RIR/NCR/DDR 1875

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and the second

Inspector A.K.K.	my Bu	kner	Specialist	floon	Weld Spec. AWC	5-09
Mark Number	Quan Recvd	Type Weld	Deficiency		Details	
IEI	,	٧I	VS	1 1/2". in U	drawing requires benel meth 2 an a flare bur long - 3 places S he to the to 2" long 1 \$	and and
		I	vs	Pe. 9 CASSEMOLY 4 pla	and he interto	41 2 " 45" 1 Lue
				to for	incation, and	unous loce.
•)	
				•		
LEGEND: <u>Type of Welds</u>		We	eld Deficier	cies and Specifi	cation Violations	
I Fillet II Butt (F		AS Bi	S Arc Stri MR Base Met	lke al Peduction	WW Not Welded OL Cverlap	
IT Tee (Pa) Total		CI CI EC	I Crater I Excessiv	e Convension	PC Porosity SI Slag Inclusion SP Scatter (Clust	er of La
TI Scot		IC		Concernity :	Surface Slag	5.0 10

*18/ DDR 1825

Page 34 of 36

Mark Number	Recvd	Type Weld	Deficiency	Details
	1	VII.I		Southwest P. 3 to Ke I have added
			IF	5% long 2 place in IF totaling %" in lang
			UC 1	How UL 2 32 deeper 4 /1 1
			CT	1 place, CT & aliameter
			IF	IF totaling by in longt
				non environt with in all
			IT	plan, IT \$2 × 3 2 1, (18" wild lang th).
				north coast h. 3 # 18. 1 how added
				5 th long 2 pelace in
		1.	IF	UC = '32 X's long 2 sele IF totaling 's in lon
			UC	How UE 1/22 Luce + 14
			UC	I gelow, UC Ho dega X 2
			IF	1 school IF totaling 12
			IT	lemith, and IT ba X
				1 gelore .
			ve !	Southeast le 3 totel how added
			00	5 4 long 2 close with
			IF	TE LEAS 34 TH
		1	Vel	UC + his such X 31 Rame
			IF	her It totaling The in I and IT 1/2 & 4" hong place. (18" small lan
		in the local	24	and IF 128 4 long.
				place. (18 smiled les

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Type of Welds

1 × 1

13 12

I Fillet II Butt (Full) III Tee (Full) IV Tee (Fartial) V Stud VI Spot VII Flare Bevel

Weld Deficiencies and Specification Violations

AS	Arc Strike	NW	Not Welded
BMF	Base Metal Reduction	OL	Overlap
CR	Crack	PO	Porosity
CT	Crater	SI	Slag Inclusion
EC	Excessive Convexity	SP	Spatter (Cluster of Linea
IC	Internal Concavity	SS	Surface Slag
IF	Incomplete Fusion	UC	Undercut
IT MT	Insufficient Threat Helt Through	03	Ondersize A138

ATRANSA DDR 1875

Page 35 of 36 Date 8-17-83

Brown Borneri # Date 8-11-02 Drawing No. 625978 Kee44, 640103 Kw0 QA Number 435122 Inspector Mike King Buchen Specialist Phumping Weld Spec. AWS-D9.1

Mark Number	Recvd	Type Weld	Deficiency	Details
IEλ ,	,	¥Ø, 5	IF UC UC UC IT	northwest to 3 to R 1 has added with St long 2 place with IF totaling 1% "Long", UC = 1/2 Lage X 1/4" Long 7 place, How UC = 1/6" Lage X 1/6" long 1 place UC = 1/6" Lage X 1/6" long 1 place, UC 1/6" Lage X 1/6" long 1 place, ord IT 1/2" X 1/4" long 1 place, (14" wild long th).
		Ŧ	RS TF US US US	north P. 6 to P. 3 how AS 1/2" long 1 plan, unconcensed weld and in weld 1 plane, IF 1/2" long 1 plane, US 1/2" X 5/2" long 1 pelos (6" weld longth), US 1/3" X 5% long 1 plane (3" weld longth), US 1/2" X 4" long 1 plane (6" weld by
		Ι	UC US IT	South he 6 k he 3 har UC 1/32 dage) His long 1 place, US '32" × 1: Long 1 place (+ K" weld long to and IT Hix His long 1 pla (6/2" weld long th).
		Y ST		R 18 to R. 9 drawing require a flo turel weld 2" long , 10 ho 1 %" long weld 2, close

I	Fillet
II	Bott (Full)
III	Tee (Full:
IV	Tee (Fartial)
v	Stud
VI	Scot
VII	Flare Bevel

10170 Pat 72	and Chilles of t	20 CT 1	DPTL.	TE TOUL	100	VIOLATION	5
THE CONTRACTOR OF THE CONTRACTOR		A Maril Mr. Barren and	CONTRACTOR OF STREET	COLUMN TO ADDRESS	for management	the second groups where the second	-

AS	Arc Strike	NW	Not Welded
BMR	Base Metal Reduction	OL	Overlap
CR	Crack	PO	Porceity
CT	Crater	S.	Slag Inclusion
EC	Excessive Convexity	SP	Spatter (Cluster of Line
IC	Internal Concavity	SS	Surface Slag
IF	Incomplete Fusion	UC	Undercut
IT	Insufficient Inroat	2.0	Undersize A138
MT	Melr Inrough		ni20

BERANCE DDR 1825

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A138

Surface Slar

Witercut

Indersize .

Inspector Mike Kin	y Buch	lan_	Specialist	- Rhurtha	Weld Spec. AWS-109
Mark Number	Quan Recvd	Type Weld	Deficiency		Details
F2	1	VII.	IT UC	R. 9 to Vypen In I C2" w UC - % place.	Horizonal Channela
		I		Pe 9 CASSEMO Lu in 142" f. for Ting	14) wild sige cannot a fating 245" of wild in man motion due to falming uncled 1/4" long 1 pla
				•	
IEGEND: Type of Weld	5	We	d Deficien	cies and Specific	and the state of the
I Fillet II Butt (III Tee (F IV Tee (F)	Full) ull)	AS BM CR	Arc Strij MR Base Meta	ke K al Peduction C	<u>acion liolations</u> W Not Welded 1 Overlap 0 Poresity

Internal Contavity Incomplete Pusion Insulficient Threat Welt Through

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12

IF IT MI

Flare Ferel

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I. BARTH / MORE/KARMANIDAG Trely I. PF Ryply Due Date 2/2! UNITED STATES OF AMERI

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141

FUCLEAR REGULATORY COMMISSION

854083

to: Brad Jones, Region II ton's Janke moore

2/4/85.

respect to my contentions on which discovery as we ---the minds of the staff, and this information is not contained in documents which the staff has provided to me. I am unable to obtain this information by other means. Where the information is contained in a document I can obtain from MRC (Public Document Room, etc). I still need the identification of the document in order to obtain the information. The staff has resources and information which exceed what I have, and as a party, their position and information are necessary to making my case in this proceeding. These interrogatories are continuing in nature and should be suppletented when answers change. DENERAL INTERACOATORIES

For each of contentions -

please provide the following information by answering each of these questions.

1. What is ARC Staff's understanding of the subject matter of this

2. Eas, ARC Staff made any investigation into. (a) this contention (b) the subject matter of this contention (c) the allegation(s) in this contention (d) the basis of this contention (e) the information relied upon by intervenor(s in support of this contention?

3. For all parts of your response to Interrogatory 2 above for which your answer is affirmative, please provide the following information: who made the analysis, inquiry, study or investigation; what was being considered in such analysis, inquiry, study or investigation ("AISI"); the content of the which analysis, inquiry, study of inter the AISI has been completed, whether AISI, the results of the AISI, whether the AISI has been completed, whether a date for completing the AISI has been established if it is not complete, what that date is; all documents used in the AISI, all persons consulted

A141

in the course of the AISI, all documents containing information discovered er analysis or study or information developed during or as a result of the AISI (identify each such document and state what information or results it contains), whether staff believes additional analysis is warranted, or further AISI needs or kay need to be undertaken on this contention, and whether any persons participating in the AISI are to be called as witnesses for the Staff in this case, and what questions the staff AISI is intended to answer and what information it seeks to develop if it is not complete.

4. For all responses to parts of (2) above for which MRC staff's of FEMA's answer is other than affirmative, please state (a) whether ERC staff of FErnd plans to perform any AISI on this contention, (b) whether anyone on ERC Staff has stated that AISI of any kind is warranted for this contention (even though it has not been made) (c) whether MRC Staff plans for AISI OF FEMA'S on this contention include a date for beginning or for ending such AISI. (d) those dates, for all affirmative answers to (c) above, (e) what AISI

FEMP orman staff will undertake on this contention (f) what AISI MAC staff desires to undertake on this contention (g) all reasons why no AISI is planned an this contention if none is planned (b) all reasons why no AISI has been done yet on this contention if none has been done (1) what the responsibilities of NEC staff with respect to this contention are.

5. Identify all documents the Staff relied on in opposing the admission of this contention, and any specific facts not stated in the Staff's opposition to admission of such contention (already filed in this case) upon which Staff relied in saking such opposition.

6. Identify all documents not identified in Staff's interrogatories to Wells Eddle-an or to Joint Intervenors (to present -- & continuing interrogatory) upon which the Staff relied in making each such interrogatory. FEMAOR

7. Identify by name, personal or business address, ARC staff position or title (if any), and telephone purber (if known) each person on NFC staff or consultant to NRC staff or known to NRC Staff or consulted by NRC staff in the staff's analysis of the subject matter of this contention prior to (a) its filing (b) its admission; state for each such person what analysis was performed by that person.

8. State all professional qualifications of each person identified in response to interrogatories 7. 34

9. Provide any statements of the analysis made by persons identified in response to interrogatories 3.4, or 7x above, and identify all documents containing such information or statements not previously identified.

10. Give the identifier mather, date, source, and title of all documents identified in response to interrogatories above, which are available through EC PEF (Public Document Room).

11. Will MRC Staff make available popies of documents identified in response to the above interrogatories to Wells Eddleman for inspection and copying, for documents not available through MRC's PDF.Y

FEMAIN 12. Identify by name, NRC staff position if any, address and telephone muther each person whom MRC staff intends to mor use or call as a witness in this proceeding.

13. State fully the professional qualifications of each person identified in response to interrogatory 12 above.

14. Sumarize the position (or planned testimony) with respect to each contention on which such person is expected to testify, for each person identified in response to interrogatory 12 above. FEMA or

15. Ess NRC Staff, any witness identified in response to interrogatory 12, or anyone acting in behalf of the Staff or such & witness or at their direction, made any celculation or analysis (not identified in response to interrogatories 1 through 4 above) with respect to this contention?

16. If the answer to interrogatory 15 above is yes in any case, provide the mane, business or personal address, telephone number and professional qualifications of each person who has made such calculation or analysis, stating for each what contention it relates to, what person (or Staff) it was nade for or at the direction of, and identifying all documents containing such calculationor analysis and all documents used in making such calculation or analysis or relied upon in it or supplying information used in it.

17. Provide a sunnary of each AISI, calculation or analysis tdex for which the answer to interrogatory 15. or interrogatory 2 above, is yes.

18. Please give the scoession number, date and originator of each document identified in response to interregatory 16, which is available at the MRC PDR.

19. Wall NEC Staff make available to Wells Eddleman for inspection and copying all documents identified in response to interrogatory 16 above which are not evailable through the PUT.?

20. Identify each person, including telephone mumber, address, and field of expertise and qualifications (complete) (if any) is who answered interrogatories with respect to this contention; if more than one person contributed to an answer, identify each such person, providing the information requested above in this interrogatory for each such person, and state what each such person's contribution to the answer was, for each answer.

EMAOr

21. Identify all documents which the Staff proposes or intends to use as exhibits with respect to this contention during this proceeding, including exhibits of Staff witnesses (identifying the witness for each, if such a witness has been designated), and exhibits to be used during cross-examination of witnesses of any party (stating for each which witness it is to be used in cross-examination of), and identifying for each the particular pages or chapters to be used as exhibits.

FEMAOr

22. Identify all documents which, NRC staff relied upon in answering interrogatories with respect to this contention, which have not been identified in response to interrogatories 1 through 21 above, stating for each which answer(s) re which contention(s) it was used for, and each specific fact and page number therein on which NEC staff relied or which ERC staff used in answering such interrogastory.

23. Tlease give the accession number, date, and originator of each document identified in response to interrogatories 21 or 22 above which is available through the NRC PDR.

. . .

24. Mill. NRC Staff provide Wells Eddleman with copies of the documents identified in response to interrogatory 21 or 22 above which are not available at the PDE. for inspection and copying?

25. Identify any other information or source of information not of identified in response to the the above interrogatories 1 thru 24 which you, or upon which any member of NRC staff reliefd, or which any such member of staff used, in answering each interrogatory with respect to this contention, naming the contention and response in which each such source was used, and the location of the information used or relief on in such source (e.g. page number, section, chapter, etc 26 (a) Does the Staff now agree with the contention? (b) Does the

Staff now agree with any part of the contention?

27. If answer to (b) above is affirmative, which part(s) and why?

41-G-1. Flease identify fully all documents which:

(a) contain any of the following:

10.0

- (i) any information in the personnel file of Chan Van Vo (also known as Van Vo Davis, or the same person under any other name)
- (ii) Chan Van Vo's application for employment, work assignments. work record, transfers, applications for transfer, job performance evaluations, probation, disciplinary actions proposed or taken with respect to Chan Van Vo or Van Vo's termination from CP&L, any written or verbal warnings to Chan Van Vo; all records of Van Vo's attendance, hours worked, promotion(s), recommendations for promotion(s), ... and any other information concerning Van Vo's employment, work performance, hiring, "counselling", or allegations raised by Chan Van Vo concerning safety (or lack of it) of work related to the Shearon Harris Nuclear Power Plant.
- (iii) Any records or documentation concerning, directly or indirectly, any and all meetings, conversations, interviews, discussions, or information not to be discussed (in all cases including written or verbal, formal or informal meetings, discussions, etc.) with anyone (including other CF&L and Daniel employees or other persons employed at the Shearon Harris site, supervisors, CP&L quality assurance personnel, M.A. McDuffie, E.E. Utley, NRC personnel, other investigators, news media, or anyone else) which directly or indirectly concern: Chan Van Vo, his work performance, his safety concerns, any others concerns raised by him to CP&L supervisional management. disciplinary action against Chan Van Vo. "counselling" A141 Chen Von Ve concerning work norfarmance or ony other

or retaliating against Chan Van Vo; or allegations raised by Chan Van Vo with the Nuclear Regulatory Commission (NRC), Department of Labor (DOL), Department of Justice (DOJ), Government Accountability Project (GAP), Citizen intervenor groups or individuals, news media, or any government or private investigatory body.

- (iv) any other information directly or indirectly concerning. evaluating, discussing, or in any way mentioning Chan Van Vo, any proposed or actual action takes against him, or any other information concerning Chan Van Vo or his safety concerns or other concerns;
- (v) any and all internal CP&L or external investigations or inquiries concerning Chan Van Vo, his work performance. any action against Chan Van Vo, any action proposed to be taken with respect to Chan Van Vo, any allegations made by Chan Van Vo or any contacts between Chan Van Vo and NRC or DOL or DOJ or CAP or any citizen intervenor group, or any news media or any other person;
- (vi) any records or evaluations or Chan Van Vo's work performance, including evalutions made either before, at the time of, or after Chan Van Vo's being placed on probation;
- (vii) any evaluations or reports on Chan Van Vo's allegations (including the Cobb Report),identifying each document produced or used in preparing, or in connection with such evaluation(s) or report(s), and any information which was avaliable to the preparer(s) of such evaluation(s) or report(s) which was not used or reported in such evaluation(s) or report(s);
- (viii) any internal or external investigation(s), evaluation(s), or inquiry(ies) into Chan Van Vo's character, employment qualifications, or job performance, including any information requested or sought, any questions asked, and all information received;
 - (ix) medical or psychological reports, evaluation(s) and/or record(s) concerning Chan Van Vo;
 - (x) information concerning the dates or matters discussed in meetings between Chan Van Vo and any higher ranking CP&L employee, concerning any matters raised as concerns by Chan Van Vo. A141

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(b) Refer to any of the items or matters listed in (a)(i)-(x) above

* . 32

(c) may have contained or referred to any of the matters inquired about above but which has been (1) destroyed, (2) lost, (3) given away. (4) loaned to anyone, (5) mislaid, or (6) otherwise found unavailable for inspection any copying. For each such document please provide a summary of the contents of such document, the date when the document was destroyed. lost, loaned, given away, mislaid, or otherwise became unavailable, and all reasons why: and the name and address or any other person(s) who have or may have said document or a copy of it, or information the document contains or contained.

41-G-Z(a) Please identify all documents used by, reviewed by, or in the possession of Alex Fuller, Ed Willett, E.E. Utley, M.A. McDuffie, A. Parks Cobb, Jr., or any other person who was employed by CP&L and supervised or met with or investigated Chan Van Vo, which concern Chan Van Vo or any action or allegation by Van Vo, including notes, recordings or any other information, stating who possesses each item of information (including information used by or reviewed by i any person including those named above, which is not now in that person's possession. (b) Please make available all statements, notes, or other information produced by or posessed by any of the persons inquired about above, or any other persons, concerning meeting with Chan Van Vo, discussion(s) or conversation(s) with Chan Van Vo, or investigation of, disciplinary action against, or any other action against, Chan Van Vo.

REQUEST FOR PRODUCTION OF DOCUMENTS

Wells Eddleman hereby requests that any documents identified in response to the above interrogatories be produced for inspection and copying. In light of the short discovery deadline I request that any documents or parts of documents found to be available be made available as soon as possible, regardless of the time it takes to locate or produce the rest of such documents or the time it takes to produce other documents. (This is not a waiver of production times, but a request for rapid production). Chan Van Vo's counsel advises me that Chan Van Vo is aware of the requests and has no objection to my receiving or reviewing any documents concerning the matters inquired about above.

4 February 1985

Allemen

Wells Eddleman

A141

UNITED STATES OF AMERICA MUCLEAR REGULATORY COMMISSION

CERTIFICATEOF SERVICE

Diesel Jenerator Contentions and Info Order served 1-15-85 (41G), and of Discovery on 41-G (1st set) + Affs d to MAVE been served this 4** day of <u>February</u> 1985, by deposit in Grade the US Mail, first-class postage prepaid, upon all parties whose names are listed below, except those whose names are marked with an asterisk, for whom service was accomplished by discovery on \$1-6

delivery by hand this date to CP&L legal dept in Raleigh NC

#wunder agreement of counsel for Staff and Applicants of which the Board is Juiges James Kelley, Glenn Bright and James Carpenter (1 copy each)

Atomic Safety and Licensing Board US Nuclear Regulatory Cormission Washington DC 20555

Robert Gruber

Exec. Director

Fublic Staff

Box 991

George F. Trowbridge (attorney for Applicants) Shaw, Pittman, Potts & Trowbridge Rus 1600 M St. Nd ASLI Washington, DC 20036 USNRC

Ruthanne G. Miller ASLB Panel USNRC Washington DC 2055 5

Office of the Executive Legal Director Attn Dockets 50-400/201 0.L. USNRC

Washington DC 20555

Docketing and Service Section (3x) Attn Dockets 50-400/401 0.L. Office of the Secretary USNRC Washington DC 20555

John Runkle CCNC 307 Granville Rd Chapel Hill Rc 27514 Atlanta GA 30309

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Richard Wilson, M.D. 729 Eunter St. Apex HC 27502 E Spence W. Perry PIGN FEMA Room 840 CNY Washington DC 20740

> Dan Read CHANCE /FLP

Raleigh, 5707 Wayeross

Dr. Linda V. Little Governor's Waste Ngt. Bd. 513 Albenarle Bldg. 325 N. Salisbury St. Raleigh, NC 27611

> Bradley W. Jones USERC Region II 101 Marietta St. Atlanta GA 30303

Raleigh NC 27602 Certified by

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BLACKWOOD, E. - 24359 CONRAN, J. - 24354 COX, T. - 24357 GABRIEL, B. - 24350 KANE, W. (TO REGION I EFFECTIVE 1/14/85) SCHWINK, W. - 24342 SMITH, D. - 29704 SNIEZEK, J. - 24350 STELLO, V. - 29704 TAYLOR, M. - 24356

MNBB 6201

NORRY, P. - 27335 SOLAN, J. - 27335 SPRINGER, M. - 27337 WATTS, H. - 27337

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6209 MNBB - x27585

BRANDENBURG, P. BRIDGERS, M. DAY, D. DIRCKS, W. FEDERLINE, M. JORDAN, K. MORRIS, D. RABIDEAU, P. REHM, T. ROE, J. SILVER, S. VITALE, P.

I. BARIA IFF Raphy Luce Date INITED STATES 62

FUCLEAR REGULATORY COMMISSION

854083

2-4-85

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD Glenn O. Eright Dr. Jaces H. Carpenter James L. Kelley, Chairman

In the Matter of

CABOLINA POWER AND LIGHT CO. et al. (Shearon Harris Nuclear Power Flant, Unit 1

Docket 50-400 OL

ASLBP No. 82-472-03

Wells Eddleman's Interrogatories to NEC Staff and PEMA

and FEMA

8502080199

Wells Eddleman hereby requests the NRC Staff to answer the following interrogatories before 10 1985 or such other date as counsel for the Staff FEMA and I agree on. These interrogatories are submitted under 10 CFR 2.720(h)(11) and inquire into the studies, information, and knowledge of NRC staff with respect to my contentions on which discovery is now open. Since I cannot read the minds of the staff, and this information is not contained in documents which the staff has provided to me. I am unable to obtain this information by other means. Where the information is contained in a document I can obtain from NRC (Public Document Room, etc), I still need the identification of the document in order to obtain the information. The staff has resources and information which exceed what I have, and as a party, their position and information are necessary to making my case in this proceeding. These interrogatories are continuing in nature and should be supplemented when answers change. GENERAL INTERROGATORIES .

In all interrogatories herein, "you" or "Staff" means NRC Staff or PEKA Eddleman contentions 4117 For each of contentions

please provide the following information by answering each of these questions.

1. What is NRC Staff's understanding of the subject matter of this contention?

2. Eas, ARC Staff made any investigation into, (a) this contention (b) the subject matter of this contention (c) the allegation(s) in this contention (d) the basis of this contention (e) the information relied upon by intervenor(s) in support of this contention?

3. For all parts of your response to Interrogatory 2 above for which your answer is affirmative, please provide the following information: who made the analysis, inquiry, study or investigation; what was being considered in such analysis, inquiry, study or investigation ("AISI"); the content of the AISI, the results of the AISI, whether the AISI has been completed, whether a date for completing the AISI has been established if it is not complete, what that date is, all documents used in the AISI, all persons consulted A145 in the course of the AISI, all documents containing 1 __ormation discovered or analysis or study or information developed during or as a result of the AISI (identify each such document and state what information or results it contains), whether staff believes additional analysis is warranted, or further AISI needs or may need to be undertaken on this contention, and whether any persons participating in the AISI are to be called as witnesses for the Staff in this case, and what questions the staff AISI is intended to answer and what information it seeks to develop if it is not complete.

4. For all responses to parts of (2) above for which NRC staff's of FEMMA'S answer is other than affirmative, please state (a) whether NRC staff Dr FEMA plans to perform any AISI on this contention, (b) whether anyone on ARC Staff has stated that AISI of any kind is warranted for this contention (even though it has not been made) (c) whether MRC Staff plans for AISI Q FEMA'S, on this contention include a date for beginning or for ending such AISI, (d) those dates, for all affirmative answers to (c) above, (e) what AISI

FER P or ARC staff will undertake on this contention (f) what AISI NRC staff desires to undertake on this contention (g) all reasons why no AISI is planned on this contention if none is planned (h) all reasons why no AISI has been done yet on this contention if none has been done (i) what the responsibilities of NEC staff with respect to this contention are. and of FEMA

5. Identify all documents the Staff relied on in opposing the admission of this contention, and any specific facts not stated in the Staff's opposition to admission of such contention (already filed in this case) upon which Staff relied in making such opposition.

6. Identify all documents not identified in Staff's interrogatories to Wells Eddleman or to Joint Intervenors (to present -- a continuing interrogatory) upon which the Staff relied in making each such interrogatory.

7. Identify by mame, personal or business address, ERC staff position title (if any), and telephone number (if in address, ERC staff position or title (if any), and telephone number (if known) such person on NEC staff or consultant to NRC staff or known to NRC Staff or consulted by NRC staff in the staff's analysis of the subject matter of this contention prior to (a) its filing (b) its admission; state for each such person what analysis was performed by that person.

8. State all professional qualifications of each person identified in response to interrogatories 7 .. 3,4

9. Provide any statements of the analysis made by persons identified in response to interrogatories 3.4. or 7m above, and identify all documents containing such information or statements not previously identified.

10. Give the identifier mumber, date, source, and title of all documents identified in response to interrogatories above, which are available through ERC PRIF. (Public Document Room).

11. Will NRC Staff make available copies of documents identified in response to the above interrogatories to Wells Eddleman for inspection and copying, for documents not available through MRC's PIR! FEMAUR

12. Identify by name, NRC staff position if any, address and telephone mumber each person whom ARC staff intends to mom use or call as a witness in this proceeding.

13. State fully the professional qualifications of each person identified in response to interrogatory 12 above.

14. Sumari: the position (or planned testi y) with respect to each contention on which such person is expected to testify, for each person identified in response to interrogatory 12 above.

FEMA or

15. Has ARC Staff, any witness identified in response to interrogatory 12, or anyone acting in behalf of the Staff or such & witness or at their direction, made any calculation or analysis (not identified in response to interrogatories 1 through 4 above) with respect to this contention?

16. If the answer to interrogatory 15 above is yes in any case, provide the name, business or personal address, telephone number and professional qualifications of each person who has made such calculation or analysis, stating for each what contention it relates to, what person (or Staff) it was nade for or at the direction of, and identifying all documents containing such calculationor analysis and all documents used in making such calculation or analysis or relied upon in it or supplying information used in it.

17. Provide a summary of each AISI, calculation or analysis ther for which the answer to interrogatory 15, or interrogatory 2 above, is yes.

18. Please give the accession number, date and originator of each document identified in response to interrogatory 16, which is available at the NRC PIR.

FEMPor NEC Staff make available to Wells Eddleman for inspection and 19. :811 copying all documents identified in response to interrogatory 16 above which are not available through the PIF.?

20. Identify each person, including telephone number, address, and field of expertise and qualifications (complete) (if any) is who answered interrogatories with respect to this contention; if more than one person contributed to an answer, identify each such person, providing the information requested above in this interrogatory for each such person, and state what each such person's contribution to the answer was, for each answer.

21. Identify all documents which the Staff proposes or intends to use as exhibits with respect to this contention during this proceeding, including exhibits of Staff witnesses (identifying the witness for each, if such a witness has been designated), and exhibits to be used during cross-examination of witnesses of any party (stating for each which witness it is to be used in cross-examination of), and identifying for each the particular pages or chapters to be used as exhibits. FEMAOr

22. Identify all documents which NRC staff relied upon in answering interrogatories with respect to this contention, which have not been identified in response to interrogatories 1 through 21 above, stating for each which answer(s) re which contention(s) it was used for, and each specific fact and page number therein on which NEC staff relied or which NRC staff used in answering such interrogastory.

23. Please give the accession mumber, date, and originator of each document identified in response to interrogatories 21 or 22 above which is available through the NP.C PDR.

2.

24. Will, NRC Staff provide Wells Eddleman with copies of the documents identified in response to interrogatory 21 or 22 above which are not available at the PDR, for inspection and copying?

A145

identified in response to the the above interrogatories 1 thru 24 which you, or upon which any member of NRC staff reliefd, or which any such member of staff used, in answering each interrogatory with respect to this contention, naming the contention and response in which each such source was used, and the location of the information used or relief on in such source (e.g. page number, section, chapter, etc).

26 (a) Does the Staff, now agree with the contention? (b) Does the Staff now agree with any part of 'the contention?

27. If answer to (b) above is affirmative, which part(s) and why?

41-G-1. Please identify fully all documents which:

(a) contain any of the following:

1.

- (i) any information in the personnel file of Chan Van Vo (also known as Van Vo Davis, or the same person under any other name)
- (ii) Chan Van Vo's application for employment, work assignments, work record, transfers, applications for transfer, job performance evaluations, probation, disciplinary actions proposed or taken with respect to Chan Van Vo or Van Vo's termination from CP&L, any written or verbal warnings to Chan Van Vo; all records of Van Vo's attendance, hours worked, promotion(s), recommendations for promotion(s), and any other information concerning Van Vo's employment, work performance, hiring, "counselling", or allegations raised by Chan Van Vo concerning safety (or lack of it) of work related to the Shearon Harris Nuclear Power Plant.
- Any records or documentation concerning, directly or (iii) indirectly, any and all meetings, conversations, interviews, discussions, or information not to be discussed (in all cases including written or verbal, formal or informal meetings, discussions, etc.) with anyone (including other CP&L and Daniel employees or other persons employed at the Shearon Harris site, supervisors, CP&L quality assurance personnel, M.A. McDuffie, E.E. Utley, NRC personnel, other investigators, news media, or anyone else) which directly or indirectly concern: Chan Van Vo, his work performance, his safety concerns, any others concerns raised by him to CP&L supervisional management,

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or retaliating against Chan Van Vo: or allegations raised by Chan Van Vo with the Nuclear Regulatory Commission (NRC), Department of Labor (DOL), Department of Justice (DOJ). Government Accountability Project (GAP), Citizen intervenor groups or individuals, news media, or any government or private investigatory body.

(iv) any other information directly or indirectly concerning. evaluating, discussing; or in any way mentioning Chan Van Vo, any proposed or actual action takes against him, or any other information concerning Chan Van Vo or his safety concerns or other concerns;

-5.

- (v) any and all internal CP&L or external investigations or inquiries concerning Chan Van Vo, his work performance. any action against Chan Van Vo, any action proposed to be taken with respect to Chan Van Vo, any allegations made by Chan Van Vo or any contacts between Chan Van Vo and NRC or DOL or DOJ or GAP or any citizen intervenor group, or any news media or any other person;
- (vi) any records or evaluations or Chan Van Vo's work performance, including evalutions made either before, at the time of, or after Chan Van Vo's being placed on probation;
- (vii) any evaluations or reports on Chan Van Vo's allegations (including the Cobb Report),identifying each document produced or used in preparing, or in connection with such evaluation(s) or report(s), and any information which was avaliable to the preparer(s) of such evaluation(s) or report(s) which was not used or reported in such evaluation(s) or report(s);
- (viii) any internal or external investigation(s), evaluation(s), or inquiry(ies) into Chan Van Vo's character, employment qualifications, or job performance, including any information requested or sought, any questions asked, and all information received;
 - (ix) medical or psychological reports, evaluation(s) and/or record(s) concerning Chan Van Vo;
 - (x) information concerning the dates or matters discussed in meetings between Chan Van Vo and any higher ranking CP&L employee, concerning any matters raised as concerns by Chan Van Vo.

(b) Refer to any of the items or matters listed in (a)(i)-(x) above (c) may have contained or referred to any of the matters inquired about above but which has been (1) destroyed. (2) lost. (3) given away, (4) loaned to anyone, (5) mislaid, or (6) otherwise found unavailable for inspection any copying. For each such document please provide a summary of the contents of such document, the date when the document was destroyed, lost, loaned, given away, mislaid, or otherwise became unavailable, and all reasons why: and the name and address or any other person(s) who have or may have said document or a copy of it, or information the document contains or contained.

-6-

41-G-2(a) Please identify all documents used by, reviewed by, or in the possession of Alex Fuller, Ed Willett, E.E. Utley, M.A. McDuffie, A. Parks Cobb, Jr., or any other person who was employed by CF&L and supervised or met with or investigated Chan Van Vo, which concern Chan Van Vo or any action or allegation by Van Vo, including notes, recordings or any other information, stating who possesses each item of information (including information used by or reviewed by i any person including those named above, which is not now in that person's possession. (b) Please make available all statements, notes, or other information produced by or possessed by any of the persons inquired about above, or any other persons, concerning meeting with Chan Van Vo, discussion(s) or conversation(s) with Chan Van Vo, or investigation of, disciplinary action against, or any other action against, Chan Van Vo.

REQUEST FOR PRODUCTION OF DOCUMENTS

Wells Eddleman hereby requests that any documents identified in response to the above interrogatories be produced for inspection and copying. In light of the short discovery deadline I request that any documents or parts of documents found to be available be made available as soon as possible, regardless of the time it takes to locate or produce the rest of such documents or the time it takes to produce other documents. (This is not a waiver of production times, but a request for rapid production). Chan Van Vo's counsel advises me that Chan Van Vo is aware of these requests and has no objection to my receiving or reviewing any documents concerning the matters inquired about above.

Do Ellemen

4 February 1985

Nells Eddleman

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WITED STATES OF AMERICA NUCLEAR RECTLATORY CONDUSTION

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Judges James Kell	Lev, Glenn Bright and Licensing Board	Janes Carpenter (1' cop	y each)
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UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of

CAROLINA POWER AND LIGHT COMPANY AND NORTH CAROLINA EASTERN MUNICIPAL POWER AGENCY Docket Nos. 50-400-0L 50-401-0L

(Shearon Harris Nuclear Power Plant, Units 1 and 2)

CERTIFICATE OF SERVICE

James L. Kelley, Chairman* Administrative Judge Atomic Safety and Licensing Board U.S. Nuclear Regulatory Commission Washington, DC 20555

Mr. Glenn O. Bright* Administrative Judge Atomic Safety and Licensing Board U.S. Nuclear Regulatory Commission Washington, DC 20555

Dr. James H. Carpenter* Administrative Judge Atomic Safety and Licensing Board U.S. Nuclear Regulatory Commission Washington, DC 20555

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UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD

Before Administrative Judges;

James L. Kelley, Chairman Dr. James H. Carpenter Glenn O. Bright

In the Matter of

CAROLINA POWER & LIGHT COMPANY and NORTH CAROLINA EASTERN MUNICIPAL POWER AGENCY Docket Nos. 50-400 OL

(ASLBP NO. 82-472-03 OL)

(Shearon Harris Nuclear Power Plant)

January 14, 1985

MEMORANDUM AND ORDER (Ruling on Certain Safety Contentions and Other Matters)

We have heard argument (Tr. 5730-45) and received submissions from the parties on the Eddleman and CCNC proposed contentions based on the Chan Van Vo affidavit of October 6, 1984. We ruled on most of these contentions in the December 5 telephone conference. We now rule on the remaining four contentions.

Eddleman Contention 41-G Concerning Harassment

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Mr. Eddleman's proposed Contention 41-G alleges harassment of employees at the Harris facility to discourage them from bringing forward safety concerns. It refers specifically to portions of the Van Vo affidavit of October 6, 1984. Because this proposed contention was filed "late" -- i.e., long after the initial 1982 deadline for contentions -- its admission is subject to the "five factors" balancing test, (See <u>Duke Power Co</u>. (Catawba Nuclear Station), 17 NRC 1041 (1983)), as well as to the specific basis requirement. The contention is drafted in rather general terms, but since it alleges intentional illegal behavior we find it sufficiently specific. See <u>Duke Power Co</u>., *finite* <u>supra</u>, 19 NRC 1418, 1433 (1984); <u>cf</u>. <u>United States</u> v. <u>Screws</u>, 325 U.S. 91 (1945).

In our balancing of the five factors, the following considerations are most pertinent:

(1) <u>Good cause</u> -- The contention was filed reasonably soon after the Van Vo affidavit became available. Mr. Eddleman was not properly chargeable with notice of possible harassment problems before that time.

(2) & (4) -- Other Means and Representation by Existing Parties. Both of these factors favor admission of the contention. Compare Washington Public Power Supply System (WPPSS Nuclear Project), 18 NRC 1167, 1173-75 (1983). We reject the Applicants' suggestion that a Staff investigation is an adequate "other means" to protect the intervenor's interest. However, these two factors are to be given less weight than the others. <u>Detroit Edison Co</u>. (Enrico Fermi Plant), 18 NRC 1760, 1707 (1982).

(3) <u>Contribution to the Record</u>. The subject matter of this QA contention may not require particular expertise and we certainly do not question Mr. Eddleman's willingness to work. On the other hand, the hearings on Mr. Eddleman's several safety contentions sometimes left us with the feeling that he had spread himself too thin. We note in that regard that in the coming months Mr. Eddleman will have a lot of work to do on his emergency planning contentions. Moreover, our experience indicates that a contention alleging a <u>pattern</u> of harassment -- broader than the incidents Mr. Van Vo speaks of -- would require considerable time to develop. Factor 3 weighs against Mr. Eddleman.

(4) <u>Delay or Broadening the Issues</u> -- allowance of a broad harassment contention, with full-scale discovery, could well lengthen this proceeding substantially, and might even delay fuel loading, although that now seems unlikely. The fuel load delay is the more important concern. Obviously, allowance of Mr. Eddleman's broad contention as drafted would broaden the issues. In the circumstances, this factor weighs somewhat against Mr. Eddleman.

In balancing the five factors together, they appear to tilt slightly against Mr. Eddleman's contention in its present form. However, the Van Vo allegations are serious and the balance is very close. We believe they should be scrutinized on the record under a suitably narrowed version of Mr. Eddleman's contention. We revise Eddleman 41-G to read as follows:

> Chan Van Vo was placed on probation and later terminated from his job with CP&L because he had sought to raise nuclear safety concerns about the Harris facility, as he alleges, and not because of poor job performance, as CP&L alleges.

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This contention should be understood as focusing on the reasons particular personnel actions were taken against a particular individual. The parties' attention should focus on particular incidents alleged in the Van Vo affidavit -- e.g., the response to Mr. Van Vo's concerns about the "cold pulling" of a pipe (paragraphs 9-15 of the affidavit) and about pipe hanger material traceability (paragraphs 18-21). In admitting this contention, we are <u>not</u> opening for litigation Mr. Van Vo's broader and unparticularized allegations -- e.g., affidavit paragraphs 25 and 26 -- at least not at this time.

Our rationale for this approach is that the contention grew out of the Van Vo affidavit, as Mr. Eddleman has made clear. Given the difficulties and large expenditures of time involved in discovery and hearing of a broad harassment contention and Eddleman 41-G's status as a late contention, it is reasonable to determine, first, whether the Van Vo allegations about his treatment can be substantiated in a relatively short time. If they are substantiated on the record, then the Board would consider a broader contention in this area. On the other hand, if the Van Vo allegations prove to be unfounded, as CP&L contends, and no other evidence of harassment surfaces, then presumably that issue would be closed. The "five factor" balance clearly favors this narrower version of Eddleman 41-G because the potential for delay in the original version does not obtain, and its presentation would be within Mr. Eddleman's limited resources.

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CP&L and Mr. Van Vo have entered into a settlement of any personal claims Mr. Van Vo may have had against the company. The Board asked for and received from the Applicants a copy of the otherwise confidential settlement agreement to determine what bearing, if any, it might have on our disposition of Eddleman 41-G. We also received and considered comments from CP&L and Mr. Eddleman on that question. The settlement terms appear to be reasonable. The amount of the financial payment to Mr. Van Vo is certainly no more and probably much less than it might have cost CP&L to fully litigate Mr. Van Vo's possible personal claims. The agreement does not purport to bar Mr. Van Vo from disclosing any information to the NRC. In short, our disposition of Eddleman 41-G was not affected by the settlement agreement.

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Eddleman Contention 41-G, as modified by the Board, is admitted and discovery on it is open. The contention is narrow and the Applicants and Staff, at least, have already investigated the Van Vo concerns. Mr. Eddleman has the Applicants' Cobb Report on the Van Vo allegations, and the Staff should soon be supplying the I&E Report on the same matters. Therefore, discovery is to close by March 1, 1985, unless an extension is obtained for good cause shown. Any party wishing to move for summary disposition shall so advise the Board by March 8, 1985, and any such motions shall be filed by March 15, 1985. Should a hearing be necessary on this contention, the Board tentatively plans to schedule it for late April or early May.

The Board realizes that there may be other employees, present or former, at the Harris site who might have information about acts of

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harassment of workers because of their efforts to raise nuclear safety concerns. If so, they should come forward with that information now, on a confidential basis, if they wish. To that end, we are directing the Applicants to post the notice attached to this Order in places where notices to employees are customarily posted at the Harris site. It invites employees who wish to provide information about any harassment incident related to nuclear safety to send it to the Board. Further, such information must be submitted by the deadline date of March 1, 1985. If the Board receives any information pursuant to the notice, we will consider appropriate action on it, including broadening of Eddleman 41-G. If no such information is received, any further inquiry into incidents occurring prior to March 1, 1985 will be foreclosed (other than the Van Vo incidents).

Eddleman Contention 41-C and CCNC WB-1

Both of these contentions are based on statements in Mr. Van Vo's affidavit about a specific incident of alleged falsification of material traceability records. Litigation of that particular incident is now allowable under modified Eddleman 41-G. Should the developed record show that falsification occurred, we can reconsider admission of a broader falsification contention. Eddleman Contention 41-C and CCNC WB-1 are rejected under the five factors balancing test, for the reasons stated under Eddleman 41-G as proposed.

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CCNC Contention WB-2 Concerning Improper Pipe Installation

We tentatively rejected this contention in the December 5 telephone conference, subject to the possibility of receiving further comments from Mr. Van Vo, to be mailed by December 21, 1984. No such comments were received and this contention is rejected for the reasons previously assigned -- basically, that the system in question is not sufficiently related to safety to warrant our consideration. The reasonableness of CP&L's responses to Mr. Van Vo's expression of concerns about that system is included under revised Eddleman 41-G.

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Eddleman Contention 41-E Concerning Pipe Hangers

We previously rejected this contention on the grounds that it lacked specificity and because it appeared to be a "retread" of Eddleman 41. Mr. Eddleman seeks reconsideration, arguing that 41-E addresses <u>non-welding</u> aspects of pipe hangers. The Applicants and Staff oppose the motion, arguing that lack of specificity alone should bar this contention. The Board agrees for the reasons they assign. Motion denied.

Applicants' Motion to Receive Additional Evidence

The Applicants seek admission of two final reports on certain matters that were litigated under Contention 41. They concede, however, that these documents do not "set forth any new substantive information which would warrant additional cross-examination." Motion at 4. The Staff and Mr. Eddleman oppose the motion. We see no sufficient reason

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to grant this motion over opposition when the material is concededly unnecessary for decision; it is denied.

Aspects of our rulings on Eddleman 41-G may raise questions in the parties' minds. Any party who wishes a telephone conference on that ruling should telephone the Board Chairman promptly.

> THE ATOMIC SAFETY AND LICENSING BOARD

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ADMINISTRATIVE JUDGE

ames H. Car

ADMINISTRATIVE JUDGE

January 14, 1985 Bethesda, Maryland

Attachment

UNITED STATES NUCLEAR REGULATORY COMMISSION

NOTICE

The Atomic Safety and Licensing Board is presently considering whether to authorize an operating license for the Carolina Power & Light Company's Shearon Harris facility. One of the questions before the Board is whether there have been instances in which employees at the Harris site have been harassed or retaliated against because they have tried to raise nuclear safety concerns about the facility. The parties in the case are CP&L, the NRC Staff, Mr. Wells Eddleman and several intervenor groups. Any present or former employee at the Harris site who has personal knowledge about such acts of harassment or retaliation may submit on a confidential basis to the Board alone a statement which provides the following information:

- 1. The person's name and telephone number and/or address.
- 2. A description of the incident.
- A brief explanation of why the individual desires his concern to be expressed in closed, rather than public, hearings.

The Board will review any statements it receives and then decide, in consultation with counsel for the parties to the case, whether and how to conduct a closed hearing in which the identities of the witnesses would be kept confidential. CP&L's attorneys and possibly other representatives of the company would attend the closed hearing, as well as Mr. Eddleman and representatives of the NRC Staff and possibly the intervenor groups. However, they would be ordered not to disclose the identities of the witnesses. Prospective witnesses should realize that, under this procedure, their identities would be substantially protected from any further disclosure, but complete protection from disclosure would not be guaranteed.

Confidential statements must be mailed to the Board, by the deadline date of March 1. 1985, at the following address:

Atomic Safety and Licensing Board Shearon Harris Proceeding U.S. Nuclear Regulatory Commission Washington, D.C. 20555

> THE ATOMIC SAFETY AND LICENSING BOARD

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Glenn O. Bright

ADMINISTRATIVE JUDGE

James H. Carper

ADMINISTRATIVE JUDGE

January 14, 1985 Bethesda, Maryland

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Prepared by:

A P Cobb, Jr. Manager, Project Management Division Design Engineering Department Duke Power Company

October 31, 1984 Revised November 9, 1984

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This report documents results of discussions held with CP&L personnel related to statements contained in an Affidavit submitted by Chan Van Vo, a former CP&L employee in the construction organization at the Shearon Harris Nuclear Power Plant (SHNPP). The discussions pertained to the statements made in Paragraphs #12, 13, 14, 15, 23, and 24, which address CP&L management responsiveness to alleged safety concerns by Chan Van Vo. The purpose of the discussions with CP&L personnel was to ascertain facts related to CP&L involvement in the events cited in these paragraphs. Parties cited as contacts made by Chan Van Vo were interviewed, and others were interviewed who might have been in a position to confirm or contradict events recalled by those primary contacts. Personnel cited as contacts by Chan Van Vo and who were interviewed were Alex Fuller, Ed Willett, R M Parsons, M A McDuffie, and E E Utley. Others interviewed were John Ferguson, Dr. T S Elleman, and Darren Dasburg.

2.0 Background

Statements cited in Paragraphs #12, 13, 14, 15, 23, and 24 of the Affidavit were part of a sequence of events that occurred during Chan Van Vo's employment at SHNPP. Discussion with personnel involved, especially Alex Fuller and Ed Willett, provided a description of events related to Chan Van Vo's employment. This sequence of events is important to place statements made in the Affidavit in perspective.

- Chan Van Vo was initially employed as an aide at SHNPP and was later promoted to technician.
- Sometime later, in October 1980, Chan Van Vo was promoted to entry level engineer status after completing correspondence school training.
- As an engineer, Chan Van Vo worked in the piping area under Ed Willett.
- 4. While working in the piping area, Chan Van Vo developed a history of problems associated with his work. There does not appear to be specific documentation available; however, Ed Willett was aware of problems, both in his individual performance and with his interface with others. Because it was not clear as to the source of the problem, it was deemed appropriate to move Chan Van Vo to another area of work and provide an opportunity for a fresh start.
- 5. In April 1982, Chan Van Vo was assigned to work under Alex Fuller in the area of pipe hangers. At the same time, Ed Willett contacted John Ferguson (CP&L Employee Relations) and arranged for Chan Van Vo to talk with Mr. Ferguson regarding concerns about his employment situation.
- Chan Van Vo was promoted in October 1982 to the second level engineer classification at CP&L. This promotion was generally

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in accordance with CP&L's promotion policy whereby an entry level engineer is promoted at the end of two years if performance is satisfactory.

- 7. Counseling for performance problems in Chan Van Vo's work under Alex Fuller began formally in March 1983. This counseling was received in a resentful hostile manner by Chan Van Vo, who denied any unsatisfactory performance even though he was presented with documented examples.
- Counseling continued until August 1983, at which time Chan Van Vo was placed on probation and provided again with a clear statement of areas of his performance that were unsatisfactory.
- 9. Counseling continued from August 1983 until February 1984 without noticeable improvement in performance in the areas cited when Chan Van Vo was placed on probation.
- 10. In late February 1984, a final counseling session was held and Chan Van Vo was informed that progress on items requiring improvement in performance had not been satisfactory. He was given an opportunity to resign in order to prevent having a job termination on his record. He refused to resign and was terminated on that same day. He was escorted to the gate on that day in accordance with standard procedure.

Technical items cited in the Affidavit which relate to the fitup of piping to a steam generator feedwater pump and related to the Phase II hanger program occurred during the time frame that Chan Van Vo worked under Alex Fuller's supervision in the hanger area and was receiving counseling for unsatisfactory performance. Both the steam generator feedwater pump piping and the Phase II hanger program situations were complex and covered a substantial span of time (months). Chan Van Vo became involved in these situations either due to actions of his own or by virtue of assignment and worked on isolated aspects of each. He collected an isolated sample of data, drew his own conclusions, and may have pursued some actions on his own as he was prone to do. Since both situations were already being attended to by assigned CP&L personnel who had knowledge of the entire situations, Chan Van Vo's information provided little help and nothing new and was likely not given special attention. As can be ascertained from information later in this report. individuals who he supposedly contacted and provided specific information regarding these two situations have no recollection of any such contacts. To aid in understanding of events that actually transpired related to steam generator feedwater pump piping and the Phase II hanger program, individuals interviewed provided an overview which is documented later in this report.

3.0 Paragraph #12 Items

In Paragraph #12 of the Affidavit, Chan Van Vo made reference to "increasing pressure from Fuller and Willett." He stated that he sought a transfer which was refused by Willett. Based on the time frame he is

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referring to, this was the time frame during which counseling for performance problems unrelated to the steam generator feedwater pump piping was taking place. He requested a transfer and the transfer was approved by all levels of supervision. He was interviewed once or twice for assignment to other areas, but other organizations were not interested. Willett had no other areas under his supervision available in which to transfer Chan Van Vo and, in fact, needed his assistance in the hanger area due to the magnitude of the hanger work. Chan Van Vo did not contact R M Parsons directly with respect to his request for transfer or concerns with Fuller and Willett. Although he saw him frequently, Parsons recalls only two contacts with Chan Van Vo, one related to organizational information which he provided and one contact made in the field where statements were made about the installability of diesel generator piping and pipe supports.

4.0 Paragraph #13 Items

Chan Van Vo relates incidents associated with a discussion he held with M A McDuffie in 1982. According to McDuffie, he talked with Chan Van Vo sometime in 1982, the exact date of which was not recorded. He recalls the discussion because Chan Van Vo requested to come talk with him on a Saturday morning, and McDuffie was particularly impressed that an employee would take his own time in the attempt to provide information which might improve the work situation at SHNPP. In that discussion, which lasted for a considerable time, Chan Van Vo complained about his work situation and expressed concern about not being fully utilized and work in general being done in an inefficient and costly manner. There

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was no suggestion or discussion from Chan Van Vo indicating that work was being performed incorrectly from a technical point of view or that items were being completed in an improper manner. He produced a number of organization charts that he had personally prepared and explained how he felt the site should be organized, and in so doing, he could be more fully utilized. There was no mention of safety concerns during this conversation. McDuffie expressed to Chan Van Vo the need to demonstrate to his supervision that he was capable of handling additional or higher quality work and he would be given additional assignments. During the course of this conversation, Chan Van Vo criticized almost everyone above him in the management chain, but this criticism focused on their administrative capability and not their technical capability. As followup to this discussion with Chan Van Vo, McDuffie talked to R M Parsons by telephone and satisfied himself that personnel at the site were providing an audience to Chan Van Vo regarding his concerns with his job and that action that they deemed appropriate was being taken. No further followup was considered necessary or was made.

5.0 Paragraph #14 Items

In Paragraph #14, Chan Van Vo alleges that in March 1983 (assumed 1983), Alex Fuller increased pressure on him and threatened him with termination and subjected him to formal counseling regarding job performance. He noted that this counseling required that he improve his understanding and explanation of problems. This information coincides with the point in time at which formal counseling due to unsatisfactory job performance did in fact start. This counseling is documented thoroughly and spells out

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specifically the job performance-related concerns supervision had with Chan Van Vo. In Paragraph #14, Chan Van Vo noted that he requested assistance from R M Parsons; however, to the contrary, Parsons has no recollection of any contact from Chan Van Vo related to concerns about this counseling. There were no instructions provided from Parsons to Fuller and Willett to alter their course of counseling with Chan Van Vo. Parsons confirmed that he stayed aware of the counseling that was being conducted as he did with counseling of any person in the construction organization.

6.0 Paragraph #15 Items

In Paragraph #15, Chan Van Vo refers to a second visit to M A McDuffie. McDuffie confirms that a second visit was held sometime in 1983, but events suggest this visit was held later than April. At this meeting, Chan Van Vo laid out a plan he had developed for the as-built program for piping and hangers at SHNPP. He provided a hand written document to McDuffie which consisted of a compilation of his ideas, along with information he had collected from sources at the site. Since this was the second proposition he had made to McDuffie regarding substantial reorganization of the operation at SHNPP, McDuffie was less interested and the conversation took less time. At no time in this conversation did Chan Van Vo raise concerns regarding the technical competence of work at the site or safety concerns in general. Mr. McDuffie has no recollection of making the quoted statement in the Affidavit which is attributed to him regarding Chan Van Vo being a soldier and Ed Willett being his lieutenant and that he should obey orders. As followup, McDuffie sent

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the document provided to him by Chan Van Vo to R M Parsons via informal note for review and requested that they discuss the information with Chan Van Vo. The date on this note and McDuffie's recollection of when it was sent relative to the conversation he held with Chan Van Vo suggests that the meeting with Chan Van Vo actually was held in May or June 1983. The note to Parsons containing the package of information was dated in July. The response to McDuffie by Parsons indicates that discussion was held with Chan Van Vo by Ed Willett and Alex Fuller and that the package of information was reviewed in detail. Willett and Fuller pointed out that a number of items contained in that proposal were in fact included in the current hanger program at the site. Other items were not included and were not deemed appropriate to include. Parsons' response to McDuffie was dated in late July 1983 and a copy can be obtained from Parsons.

Chan Van Vo makes reference to pressure from Alex Fuller in the spring of 1983 and alleges that he was assigned more and more work and that this was more than his fair share. As noted earlier, in the spring of 1983, Chan Van Vo did receive formal counseling which started in March 1983 because of poor performance. The areas of poor performance were clearly cited in counseling documentation in March 1983. Subsequent counseling _sessions monitored progress in areas cited as unsatisfactory. Fuller states that Chan Van Vo's assignment was changed during this period because work in this group was reorganized under lead personnel. Because he was experiencing performance problems, Fuller worked more closely with Chan Van Vo than others and utilized him in several activities in the attempt to find one he could handle satisfactorily. Assignment of Chan

Van Vo to the QA surveillance activity was one such attempt by Fuller. Chan Van Vo's assignments did not constitute a disproportionate amount of work compared to others in the group, according to Fuller.

7.0 Paragraph #23 Items

In Paragraph #23, Chan Van Vo states that he received a memo signed by Alex Fuller and Ed Willett in August 1983 that stated he was on probation due to perform nce problems of the past year and one-half. He makes reference to being promoted by Fuller less than a year earlier and notes that he believes that this probationary action was in retaliation for his expression of safety concerns. In October 1982, Chan Van Vo was promoted from entry level engineer to the next level. In March 1983, formal counseling on performance problems actually started. In August 1983, Chan Van Vo was placed on probation, and the basis for this probation is well documented. This was as a result of his failure to respond to unsatisfactory performance in areas documented earlier. Documentation related specifically to performance problems observed while working under Alex Fuller. Chan Van Vo was promoted based on CP&L's system which allows promotion from entry level engineer to the next level in two years if performance is at least satisfactory. At the time of the promotion, Fuller had concerns about Chan Van Vo's performance but they were not significant enough to block the promotion or to initiate formal counseling. By March 1983, the concerns reached a level to justify formal counseling and documentation. Chan Van Vo objected to the documentation that performance was unsatisfactory and refused to sign the

counseling memo. There was no information to suggest that CP&L demonstrated that they wanted personnel to look the other way when they encountered deficiencies as alleged in Paragraph #23.

8.0 Paragraph #24 Items

In Paragraph #24, Chan Van Vo refers to a meeting with E E Utley in the fall of 1983. He refers to documentation of safety concerns and deficiencies which he carried with him and alleges that he explained these concerns to Mr. Utley, including the responses he received from his supervision. He goes on to state that Mr. Utley did not ask questions regarding these concerns and that he promised to help him and did not. Contrary to the statements in the Affidavit, Chan Van Vo met with E E Utley on July 1983 as documented on Mr. Utley's calendar. He brought with him a package of information two to three inches thick. His discussion with Utley consisted of expressing his concern with the way CP&L was managing the job with respect to pipe hangers. He noted that he had reviewed his concerns with his management, with personnel at the site, and with M A McDuffie and that they had not accepted his proposal for the way the job should be conducted and he was concerned about that. He noted that he felt that he had a much better understanding of how this work should be conducted than they did and had a thorough knowledge of his particular job. There was no expression of concerns related to safety. In fact, the conversation did not at all involve the package of information that he had brought with him, although he left that information with Mr. Utley. Mr. Utley made no specific promises to Chan Van Vo other than to give his input consideration.

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As followup to this meeting, E E Utley sent the package of information left with him by Chan Van Vo to Dr. T S Elleman, Vice President of Corporate Nuclear Safety, for his evaluation for potential safety concerns. At about this same time, Dr. Elleman had been made Chairman of a review panel to investigate potential concerns by personnel at SHNPP. Mr. Utley received no input from Chan Van Vo indicating that there were technical concerns contained in this package. Discussion with Dr. Elleman indicates that he reviewed the package and was unable to determine what Chan Van Vo was attempting to communicate. The package contained a collection of site procedures, non-conformance reports, and as he recalls, possibly some speed letters. There was no documentation as to what the compilation of information was intending to communicate. Dr. Elleman contacted Chan Van Vo by telephone and had a long and somewhat disjointed conversation. Chan Van Vo's main concerns expressed to Dr. Elleman related to his own job stability and the fairness of his supervision and the fact that people were not listening to his ideas about how the job should be conducted. Dr. Elleman tried to obtain specific concerns from him. After a lengthy conversation, Dr. Elleman obtained information from Chan Van Vo regarding concerns he had on the following items:

- Q-List nut and bolt control (PO-40924)
- 2) Purchase orders for steel plates (PO-21022, PO-21021)
- 3) Vibration of installed air compressor

The first two of these items were converted to Review Panel Concern C-23, which was addressed by the Review Panel and resolved. The third item was

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converted to Review Panel Concern C-24, which the Review Panel addressed and resolved. In none of these cases did information provided by Chan Van Vo constitute new information that had not been obtained previously by means of programs in place at SHNPP and solution paths had either been already taken or were in process.

After the Review Panel completed its work on these items, Dr. Elleman made repeated attempts to get back in contact with Chan Van Vo to relate the resolution of these items to him. After repeated attempts, he made contact and explained the resolutions. Chan Van Vo indicated that he was satisfied and had no further concerns with these items. At that time, Dr. Elleman inquired as to the basis of information Chan Van Vo had provided to E E Utley. Chan Van Vo related to Dr. Elleman that this information was brought to Mr. Utley to prove to him that Chan Van Vo was a capable performer and was doing his job satisfactorily. Following the completion of the Review Panel work, Dr. Elleman did not retain the package of information passed to him by Mr. Utley.

9.0 Events Related To Steam Generator Feedwater Pump Piping Installation

Based on discussions primarily with Willett and Dasburg, the situation that existed with regard to installation of the steam generator feedwater pump piping was as follows. Normal practice generally requires installation of piping such that the final closure weld does not occur at a piece of equipment such as a pump. Normally, piping is installed beginning with the connection at the pump and installed moving away from the pump, and a closure weld with other piping is made somewhere at a

distance remote from the equipment. The purpose of this is to ensure that any loading that may be necessarily applied to align the piping for the final closure weld is not transmitted to the nozzle of the equipment. In this particular case, craft personnel had requested approval to make the final closure weld at the pump. Because CP&L had concerns about potential loading on the pump, approval was granted with restrictions which included ensuring that hangers close by the pump were installed and would rigidly hold the pipe in place after it was aligned to the pump. and secondly, that movement of the pump be monitored carefully to ensure that the welding process itself did not create pipe movement which would provide loading on the pump. Actual construction of this particular closure weld was conducted utilizing continuous monitoring of pump movement by millwrights using dial indicators. During the process of welding, movement of the pump was monitored and if it moved in one particular direction, this could be corrected by welding on the opposite side of the piping and create a compensating movement. This iterative technique of welding, providing compensation for movement, would allow the welding to proceed in a manner not to create unacceptable pump loading and/or misalignment when welding was completed. During the course of this iterative technique, the two millwrights who had been monitoring movement were out of work one day, and two substitute millwrights were utilized. Craft personnel were reluctant to proceed with substitute millwrights, but decided to do so anyway in the interest of time. During the day when substitute millwrights were used, the iterative technique was continued and it was believed that no adverse alignment was created. On the day that followed, when the two original millwrights returned to work and made readings with dial indicators,

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there was indication that adverse movement had in fact occurred and, because welding was virtually completed at that time, the misalignment could not be corrected by further iterative welding on one side or another. At this point, CI (Construction Inspection) Inspector Ed Williams wrote a non-safety nonconformance because the alignment was unsatisfactory. There were several options considered to correct or compensate for the unacceptable alignment. Two options considered were breaking the joint and rewelding or adjusting the motor installation position to compensate for the misalignment. Considerable amount of time passed while these options were being evaluated and work priorities in the field shifted such that the situation was not at that time resolved and had not as of the interview date been resolved. In the time that has passed since the welding to the pump, the pump vendor has visited the site and has observed that the barrel is out of round, which may now necessitate breaking the weld and rewelding. The nonconformance that was written at the time the misalignment was observed is apparently still open and will have to be resolved before the item can be considered closed. Based on the above sequence of events, it appears that CP&L was both knowledgeable and in control of events that occurred to the degree that could be reasonably expected. Although the pump welding did produce an unacceptable alignment, the program for inspection picked up the misalignment as a nonconformance. This particular event does not relate to safety since both the pump and piping in question are non-safety related.

10.0 Events Related to Phase II Hanger Program

Early in the program for installation of the pipe hangers, CP&L utilized a two phase hanger program. Phase I consisted of partial erection of hangers whereby some portion of the hangers was not installed or was left in an adjustable state to facilitate piping erection. The Phase II program was intended to complete the installation of partially installed hangers and to complete all necessary inspections. When the Phase II program was started, CP&L performed a number of routine checks to ensure that final inspections under Phase II were accomplishing the intended purpose. Most of these checks proved the opposite, and it was clear that they were not achieving the level of quality desired and required. The QA surveillance in which Chan Van Vo was involved was one such exercise initiated by CP&L that demonstrated to CP&L management that they were not achieving the desired level of quality in Phase II. This particular surveillance was one of the final events before CP&L stopped the inspection program and redesigned the entire hanger erection and inspection program. The program was redesigned to utilize a one step process whereby total hanger installation and inspection was performed at one time, as opposed to the original Phase I and Phase II approach. Results of the particular QA surveillance activity to which Chan Van Vo was assigned produced several nonconformance reports. These and others were written based on findings of surveillance activities. The stop work order referred to by Chan Van Vo was a stop work on inspection until a formal and detailed checklist could be developed to ensure that hanger inspections would achieve the level of quality required by CP&L's QA program. All of the hangers that had been installed and inspected under

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the old Phase II program were reinspected under the new program to ensure that the desired level of quality was achieved. Since restart of the program, which occurred approximately December 1, 1983, the hanger program at SHNPP has proceeded satisfactorily according to Parsons.

11.0 Isolated Incorrect Statements in the Affidavit

Based on interviews with CP&L personnel and review of the Affidavit in general, there appear to be several incorrect statements in the Affidavit. Information related to these is provided below.

Affidavit

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Paragraph

Information

Contrary to Chan Van Vo's claim that he contacted D M Dasburg regarding the steam generator feedwater pump piping, Dasburg has no recollection of ever being contacted by Chan Van Vo regarding concerns he had with this piping installation.

9 Alex Fuller has no recollection of ever being contacted by Chan Van Vo regarding concerns he had with the steam generator feedwater pump piping installation. Fuller has no recollection of receiving a speed letter or throwing a speed letter in the trash can. Fuller acknowledges that he may have been contacted on the item and, if so, would have in turn contacted the

responsible piping engineer, who would likely have confirmed that they were aware of the situation regarding the installation of this piping and had it under control. Having received this feedback, he would likely have discarded any information he had received such as a speed letter. Again, he has no recollection of being contacted at all by Chan Van Vo, either verbally or by speed letter regarding steam generator feedwater pump piping installation.

Chan Van Vo refers to his concern with steam generator feedwater pump piping as a safety deficiency. CP&L engineering should be able to confirm that neither the piping nor the pump are safety related items at SHNPP.

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Chan Van Vo alleges that speed letters are utilized in place of prescribed quality assurance documentation. There is no information to support this allegation. R M Parsons and others interviewed confirmed that speed letters are used to transmit information from one party to another, and occasionally the information contained on the speed letter is converted to a nonconformance if deemed appropriate. The speed letter itself is not considered sufficient documentation for nonconformances and is not used for that.

Fuller denies ever calling Chan Van Vo a liar as alleged. Fuller confirmed that another engineer in his group was assigned to research the concern with PO-21022, that documentation associated with this PO (Purchase Order) was found, and there was no residual safety problem. The particular PO had been used in a manner different from a normal PO which did make the information in question difficult to find. This was one of the PO numbers provided to Dr. Elleman and was addressed in Review Panel Concern C-23.

Based on conversation with Ed Willett, Willett's memo of July 29, 1983 was stimulated by input received from INPO (Institute of Nuclear Power Operations) and not by input received by Chan Van Vo. Willett, in fact, did not receive information from Chan Van Vo as a result of his QA surveillance activity, and the memo was unrelated to information eminating from the QA surveillance in which Chan Van Vo was involved.

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