POPULATION NAME: SMALL BORE PIPING AND INSTRUMENT TUBING/PIPING WELDS/MATERIA PREPARED BY:
<ul> <li>POPULATION ITEMS LIST DESCRIPTION:</li> <li>The Population Items List is the Brown &amp; Root (B&amp;R) Comanche Peak CCTS<sup>1</sup> System Report (WEC-C-WE-REPORT), issue date 06/12/85. This regort, herein after referred to as the "WEC-C-WE-REPORT", is a computer sort "listing a safety related "Q" and construction complete [i.e., Quality Control (QC) accepted] large and small bore piping and instrument tubing/ piping weld</li> <li>The definition of "QC Accepted" welds is: All site-made welds in the population that are construction complete and have been accepted by QC a documented by QC signature on the Brown &amp; Root (B&amp;R), Weld Data Cards (WDCs).</li> <li>NOTES: 1. Craig Computer Tracking System (CCTS) 2. Each item was assigned a sequential number when the sort was made.</li> <li>POPULATION ITEMS LIST SOURCE:</li> <li>The "WEC-C-WE-REPORT" was provided by B&amp;R, and is a sort performed on the B&amp;R Comanche Peak CCTS System Report (Welding Engineering Component Master), herein after referred to as the Welding Engineering Component Master Report.</li> <li>BASIS FOR ACCEPTING THE LIST:</li> <li>The Welding Engineering Component Master Report is a computerized data</li> </ul>
The Population Items List is the Brown & Root (B&R) Comanche Peak CCTS <sup>1</sup> System Report (WEC-C-WE-REPORT), issue date 06/12/85. This report, herein after referred to as the "WEC-C-WE-REPORT", is a computer sort listing a safety related "Q" and construction complete [i.e., Quality Control (QC) accepted] large and small bore piping and instrument tubing/ piping weld The definition of "QC Accepted" welds is: All site-made welds in the population that are construction complete and have been accepted by QC a documented by QC signature on the Brown & Root (B&R), Weld Data Cards (WDCs). NOTES: 1. Craig Computer Tracking System (CCTS) 2. Each item was assigned a sequential number when the sort was made. POPULATION ITEMS LIST SOURCE: The "WEC-C-WE-REPORT" was provided by B&R, and is a sort performed on the B&R Comanche Peak CCTS System Report (Welding Engineering Component Master), herein after referred to as the Welding Engineering Component Master Report. BASIS FOR ACCEPTING THE LIST: The Welding Engineering Component Master Report is a computerized data
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<ul> <li>NOTES: 1. Craig Computer Tracking System (CCTS)         <ol> <li>Each item was assigned a sequential number when the sort was made.</li> </ol> </li> <li>POPULATION ITEMS LIST SOURCE:         <ol> <li>The "WEC-C-WE-REPORT" was provided by B&amp;R, and is a sort performed on the B&amp;R Comanche Peak CCTS System Report (Welding Engineering Component Master), herein after referred to as the Welding Engineering Component Master Report.</li> </ol> </li> <li>BASIS FOR ACCEPTING THE LIST:         The Welding Engineering Component Master Report is a computerized data         </li> </ul>
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BASIS FOR ACCEPTING THE LIST: The Welding Engineering Component Master Report is a computerized data
The Welding Engineering Component Master Report is a computerized data
base generated by the B&R Welding Engineering Paper Flow Group (PFG) and is used to track the construction progress of site-made welds, flanges, valves and other types of components. Input to this report is obtained from design documents such as Isometric Drawings or Component Modification Cards (CMCs). Data is entered on a daily basis by members of the B&R PFG. In addition, upon receipt of documentation packages of site-made welds via an "Interim Vault Transmittal Form" from the PFG, th Interim Record Vault (Plant Data Entry Group) also provides input to the report. The contents of the packages are checked against the transmitta form for completeness. This form is then used to input information into the report. This input is then rechecked by a third
APPROVED BY: And Le Leal DATE: 9-13-85
APPROVED BY: Albert A. Paterso DATE: 9-13-85 QA/QC REINSPECTION ENGINEERING SUPERVISOR BACKARD BACKARD

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Page 2 of 6

POPULATION NAME: SMALL BORE PIPING AND INSTRUMENT TUBING/PIPING WELDS/MATERIAL

PREPARED BY:

RESPONSIBLE QA/DC SUPPORT ENGINEER

DATE: September 13, 1985

BASIS FOR ACCEPTING THE LIST (Cont'd)

party within the Plant Data Encry Group. Data entry to the report is performed in accordance with the CCTS BRP Component Files-Data Entry Procedure", issue date 10/26/82, Rev.O.

Pertinent data to the QA/QC Construction Evaluation Plan provided in the report (in columns) is as follows:

- \* Isometric "ISO" drawing/line numbers
- Component/Item number (i.e., welds, etc.)
- ° Q status ("Q" or "Non-Q" component is or is not safety related).
- ° Construction complete or incomplete status (C/I).

Although the Welding Engineering Component Master Report is not a design document (i.e., no construction work is performed from it) and is not stamped "CONTROLLED", data entry is operationally controlled. Each operator who inputs to the report is assigned a unique "PASSWORD" which is required for entry into the system. The assigned "PASSWORD" and its maintenance is the responsibility of the Project Management Control System (PMCS). Passwords are assigned using the method outlined in the computer manual where their use and restrictions are explained.

The "WEC-C-WE-REPORT" includes approximately 66,184 safety related site-made welds performed on large and small bore pipe, and instrument tubing/piping. The amount of small bore piping and instrument tubing/piping site-made welds is approximately 70% of the total weld population (between 40,000 to 50,000 welds). Since no other list of site-made welds exists which contains only small bore welds, this combined report was used as the basis for the Population Items List.

Samples will be randomly selected for both the Small Bore Piping and Instrument Tubing/Piping Welds/Material population, and the Large Bore Pipe Welds/Material population from the same "WEC-C-WE-REPORT" until a representative sample of sixty (60) is obtained for each population. Any large bore weld chosen from the population will be rejected as a valid sample of the Small Bore Piping and Instrument Tubing/Piping Welds/Material population and a new sample selected.

	COMANCHE PEAK RESPONSE TEAM POPULATION ITEMS LIST Page 3 of 6
OPULAT	TON NAME: SMALL BORE PIPING AND INSTRUMENT TUBING/PIPING WELDS/MATERIAL
PREPAR	ED BY: RESPONSIBLE QA/QC SUPPORT ENGINEER DATE: September 13, 1985
BAS	IS FOR ACCEPTING THE LIST: (Cont'd)
The	following sources were used in reviewing and accepting the Population ms List ("WEC-C-WE-REPORT"):
1.	Unit 1 ASME III N-5 Data Report Indexes, issue date 10-12-84. Completed indexes do not exist for Unit 2 as ASME III N-5 Data Reports are not yet complete.
2.	Brown & Root Piping Isometric Drawings (BRPs).
3.	Brown & Root Weld Data Cards (WDCs).
4.	Welding Engineering Component Master Report.
5.	Reactor Containment Penetration and Detail Drawings, (BRPs), and Field Sketch Instrumentation Drawings (FSIs).
The	following provides a description of the reviews made using the above rces to establish the validity of the Population Items List:
1.	Unit 1 ASME III N-5 Data Report Indexes
	The ASME III N-5 Data Report Indexes for Unit 1 were developed by a B&R QA/QC Team. These indexes tabulate the information in the ASME III required N-5 Data Report. Each index is put together based on a review of actual piping system data packages; therefore, it is independent of the Valding Fractionary Constraints.

independent of the Welding Engineering Component Master Report. These indexes include, but are not limited to, items such as piping isometric drawing numbers, support numbers, site-made welds, valves, piping attachments, etc. An ASME III N-5 Data Report Index is not a "controlled" document, but since it is used in conjunction with a report required to satisfy ASME III code requirements, it is a viable source for checking ASME III site-made welds against the "WEC-C-WE-REPORT".

A sample comparison was performed between site-made welds listed on the ASME III N-5 Data Report Index for the Unit 1 Auxiliary Feed Water System and the "WEC-C-WE-REPORT". All site-made welds (total of 591) shown on the ASME III N-5 Data Report Index were verified to be on the "WEC-C-WE-REPORT". (See Attachment A for verification data).

Page 4 of 6

PREPARED B	Y: RE	Jawer UL	GA/QC	SUPPORT	ENGINEER	DATE:	September 13, 1985
BASIS F	DR AC	CEPTING TH	E LIST	(Cont	'd)	56	
2.	Brow	n & Root I	piping	Isometri	ic Drawings	s (BRFs)	
	a	A review of the Residu welds show verified t for verifi	of all wal Hea on on the cobe of cation	26 Unit t Remova he isome n the "W data).	1 B&R Pip: al (RHR) Sy strics (tot NEC-C-WE-RH	ing Isom vstem wa al of 5 PORT".	etrics (BRPs) for s performed. All 26 welds) were (See Attachment B
	h	A review a	£ 26 r	andomly	colocted I	CD. Dint	Torrestates (PDD-)

from several systems for Unit 2 was performed and all welds shown on the isometrics (total of 534) were verified to be on the "WEC-C-WE-REPORT". (See Attachment C for verification data).

- 3. Brown & Root Weld Data Cards (WDCs)
  - a. A review of a total of 673 Weld Data Cards (WDCs) from several systems for Unit 2 instrument piping welds (Field Sketch Instrumentation Drawings Nos. FSI-2106, 2107, 2108 series) was performed. All welds defined were verified to be on the "WEC-C-WE-REPORT". (see Attachment D for verification data).
  - b. A review of a total of 226 WDCs for the Unit 1 NSS Systems instrument tubing welds (FSI-500) was performed. All welds were verified to be on the "WEC-C-WE-REPORT". (see Attachment E for verification data).
- 4. Welding Engineering Component Master Report

A review of the construction completion (C/I) status of the Welding Engineering Component Master Report revealed that most of the Diesel Generators (Units 1 and 2) piping site-made welds had not been assigned a complete/ incomplete status under the C/I column. These welds were added to the sorted "WEC-C-WE-REPORT" to complete the Population Items List regardless of their C/I status.

POPULATION NAME: SMALL BORE PIPING AND INSTRUMENT TUBING/PIPING WELDS/MATERIAL PREPARED BY: <u>Awar W(</u><u>fuore</u>) RESPONSIBLE/QA/QC SUPPORT ENGINEER DATE: <u>September 13, 1985</u>

BASIS FOR ACCEPTING THE LIST (Cont'd)

5. Reactor Containment Penetration and Detail & Field Sketch Instrumentation Drawings

A review of the Reactor Containment Penetration and Detail drawings (for Units 1 and 2) revealed that B&R site-made welds (total of 34 Small Bore Welds, Attachment G) associated with Unit 1 Control Pressure Transmitter (PT-934 through 939/ISOs FSI-1-133-01 and FSI-1-133-02) Tubing penetrating the containment were not included in the "WEC-C-WE-REPORT". In discussions held with members of the PFG, it was determined that the welding engineering PFG does not track these welds on the Welding Engineering Component Master Report, because these welds are considered as part of the building turnover, the containment structure, and part of the leak rate testing.

It should be noted that these 34 welds were found to be missing from the "WEC-C-WE-REPORT" after the required 60 samples for Small Bore had been selected.

In order to include these missing welds in the population in an un-biased manner and still be able to maintain the samples previously selected, a method was developed (see memo from Fred Webster and John Schauf, Attachment F) which will allow for the selection of additional random samples in the same proportion of the total population as the 60 previously selected.

The steps taken to include these welds were as follows:

The number of additional Small Bore random samples required was calculated by taking the total number of samples (60) and dividing it by the approximate number of Small Bore Welds (70% of the welds in the total population: 66,184). This value was then multiplied by the total number of missing Small Bore Welds (34). As a result, 0.05 welds, or one, sample weld was determined to be proportionally adequate.

Numerically =  $[60/(0.7 \times 66, 184)] \times 34 = 0.05$ 

#### CONCLUSION

Based on the review outlined in items 1 through 5 above, it is concluded that the "WEC-C-WE-REPORT" (a sort of the Welding Engineering Component Master Report), in conjunction with the

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Page 6 of 6

POPULATION	NAM	E: SMALL	BORE	PIPING	AND	INSTRUMENT	TUBING/	PIPING WI	ELDS/M	ATERIAL	
PREPARED	BY:	Javer	ell	Bucul							
		RESPONS	IBLE /	QA/QC S	SUPPOR	T ENGINEER	DATE:	Septembe	er 13,	1985	

CONCLUSION (Cont'd)

addition of welds for the Diesel Generators and the Control Pressure Transmitters, is a viable final Population Items List from which han-biased random samples can be obtained.

The above checks were not performed uniformly for both Unit 1 and Unit 2; however, confidence in the use of the Population Items List is obtained because the same types of activities and procedures were used to input data to the Welding Engineering Component Master Report, regardless of the unit involved.

As weld samples are selected, a QC acceptance verification will be performed and any site-made welds that are not "QC accepted" will be removed from the selected Item List and another sample selected.

BASIS FOR ACCEPTING ANY ADDITIONAL ITEMS:

No other items are accepted.

.

### LIST OF PIPING "Q" (SAFETY RELATED) WELDS

# VERIFIED ON THE "WEC-C-WE-REPORT" (POPULATION ITEMS LIST)

# DOCUMENT USED: ASME III (N-5) Data Report Index

SYSTEM: Auxiliary Feedwater System, Unit 1

	NO. WELDS	WEC-C-WE-REPORT*		
BRP DWG. NO.	VERIFIED	REF. PAGE. NO.		
AF-1-SB-001	56	08-12		
AF-1-SB-002	6	13		
AF-1-SB-003	55	14-18		
AF-1-SB-004	15	19-20		
AF-1-SB-005	16	20-21		
AF-1-SB-006	39	21-25		
AF-1-SB-007	29	25-28		
AF-1-SB-008	40	28-31		
AF-1-SB-008A	30	31-34		
AF-1-SB-009	26	34-36		
AF-1-SB-010	34	36-39		
AF-1-SB-010A	32	40-42		
AF-1-SB-011	4	42-43		
AF-1-SB-012	12	45-46		
AF-1-SB-013	27	46-48		
AF-1-SB-014	55	48-53		
AF-1-SB-015	38	53-57		
AF-1-SB-016	38	57-60		
AF-1-SB-017	39	60-64		
Total Number of Welds	591			

### LIST OF PIPING "Q" WELDS

# VERIFIED ON THE "WEC-C-WE-REPORT" (POPULATION ITEMS LIST)

DOCUMENT USED: B&R Isometric Drawings (BRPs)

SYSTEM: Residual Heat Removal System, Unit 1

BBB DUC NO	NO. WE	LDS	WEC-C-WE-REPORT*
BRF DWG. NO.	VERIFI	ED	REF. PAGE. NO.
RH-1-RB-001	18	Rev. 18	4953-4954
RH-1-RB-002	17	Rev. 15	4954-4955
RH-1-RB-003	33	Rev. 8	4955-4958
RH-1-RB-004	20	Rev. 6	4959-4960
RH-1-SB-001	41	Rev. 12	4960-4964
RH-1-SB-002	8	Rev. 8	4964-4965
RH-1-SB-003	33	Rev. 16	4965-4968
RH-1-SB-004	8	Rev. 8	4968-4969
RH-1-SB-005	17	Rev. CP-1	4969-4970
RH-1-SB-006	19	Rev. 15	4970-4972
RH-1-SB-007	22	Rev. 15	4972-4974
RH-1-SB-008	14	Rev. 11	4974-4975
RH-1-SB-009	22	Rev. 14	4975-4977
RH-1-SB-010	8	Rev. 9	4977-4978
RH-1-SB-011	34	Rev. 10	4978-4981
RH-1-SB-012	24	Rev. 8	4981-4983
RH-1-SB-013	17	Rev. 15	4983-4985
RH-1-SB-014	18	Rev. 15	4985-4986
RH-1-SB-015	19	Rev. 14	4986-4988
RH-1-SB-016	13	Rev. 10	4988-4989
RH-1-SB-017	23	Rev. 10	4990-4992
RH-1-SB-018	27	Rev. 16	4992-4994
RH-1-SB-019	21	Rev. 11	4994-4996
RH-1-SB-020	14	Rev. 7	4996-4997
RH-1-SB-021	17	Rev. 5	4997-4999
RH-1-SB-022	19	Rev. 7	4999-5001
Total Number of Welds	526		

Attachment C Page 1 of 1

### COMANCHE PEAK RESPONSE TEAM POPULATION ITEMS LIST

# LIST OF PIPING "Q" WELDS VERIFIED

### ON THE "WEC-C-WE-REPORT" (POPULATION ITEMS LIST)

DOCUMENT USED: B&R Isometric Drawings (BRPs)

SYSTEM: Several Systems, Unit 2

1. 15

(Isometric Dwg. System Code)	BRP DWG. N	10.		NO. WELDS VERIFIED	WEC-C-WE-REPORT* REF. PAGE NO.
Auxiliary Feedwater (AF)	AF-2-SB-030A	Rev.	6	18	186 - 188
	AF-2-SB-030B	Rev.	. 4	21	188 - 190
	AF-2-SB-055A	Rev.	1	12	221 - 222
	AF-2-SB-064	Rev.	6	27	241 - 243
Boron Recycle (BR)	BR-2-SB-001	Rev.	6	36	241 - 281
	BR-2-SB-018	Rev.	0	6	301
Compressed Air (CA)	CA-2-RB-007	Rev.	4	6	418
	CA-2-SB-041	Rev.	5	14	420
Component Cooling Water (CC)	CC-2-AB-055	Rev.	3	12	985 - 986
	CC-2-RB-021A	Rev.	1	10	1057 - 1058
Chilled Water (CH)	CH-2-AB-010	Rev.	4	62	1711 - 1716
	CH-2-EC-002B	Rev.	5	39	1758 - 1762
Chemical and Volume	CS-2-AB-005	Rev.	5	15	2423 - 2424
Control (CS)	CS-2-SB-050	Rev.	ĩ	20	2733 - 2785
Containment Spray (CT)	CT-2-RB-020	Rev.	3	5	3231
	CT-2-SB-046	Rev.	3	29	3383 - 3386
Demin and Reactor	DD-2-AB-007	Rev.	6	22	3497 - 3499
Make-up/Wtr. (DD)	DD-2-SB-033	Rev.	3	11	3511 - 3512
Diesel Generator	DO-2-DG-012	Rev.	4	14	3654 - 3656
Fuel 011 (DO)	D0-2-DG-042	Rev.	3	56	3700 - 3705
Fire Protection (FP)	FP-2-RB-001	Rev.	0	9	3750 - 3751
	FP-2-SB-001	Rev.	2	5	3751
Steam Generator	FW-2-RB-007	Rev.	2	7	4203 - 4204
Feedwater (FW)	FW-2-SB-029	Rev.	4	39	4247 - 4250
Waste Process Gas (GH)	GH-2-AB-001	Rev.	4	32	4283 - 4286
And the second	GH-2-SB-004	Rev.	2	7	4291 - 4292
				,	4631 - 4636

TOTAL NUMBER OF WELDS

534

Attachment D Page 1 of 1

### COMANCHE PEAK RESPONSE TEAM POPULATION ITEMS LIST

### LIST OF INSTRUMENT PIPING "Q" WELDS

# VERIFIED ON THE "WEC-C-WE-REPORT" (POPULATION ITEMS LIST)

DOCUMENT USED: BAR Weld Data Cards (WDCs)

SYSTEM: Several Systems, Unit 2

Systems	FSI DWG. NO.	NO. WELDS VERIFIED	WEC-C-WE-REPORT*
		Normal States and a second second second second	HEAT CROET NO.
Component	FSI-2-2106-14-01-103	46	3990-3994
Cooling	FSI-2-2106-14-02-103	46	3994-3998
Water (CC)	FSI-2-2106-15-01-203	40	3999-4002
	FSI-2-2106-15-02-2Q3	42	4002-4006
Chilled	FSI-2-2106-16-01-203	28	4006-4008
Water (CH)	FSI-2-2106-16-02-2Q3	39	4009-4012
Containment	FSI-2-2106-2-01-102	18	4012-4014
Spray (CT)	FSI-2-2106-2-02-102	18	4014-4015
	FSI-2-2106-2-03-102	21	4015-4017
	FSI-2-2106-2-04-1Q2	20	4017-4019
Safety	FSI-2-2107-01-A-01-102	43	4019-4023
Injection	FSI-2-2107-01-A-02-102	44	4023-4027
(SI)	FSI-2-2107-01-B-02-102	41	4027-4031
	FSI-2-2107-01-C-01-102	41	4031-4034
	FSI-2-2107-01-C-02-102	43	4034-4038
	FSI-2-2107-01-D-01-1Q3	41	4038-4042
Main	FSI-2-2108-01-01-102	20	4045-4047
Steam	FSI-2-2108-01-02-1A2	22	4047-4049
(MS)	FSI-2-2108-01-03-1A2	22	4049-4051
	FSI-2-2108-01-04-102	20	4051-4053
	FSI-2-2108-01-05-1Q3	18	4053-4055

TOTAL NUMBER OF WEDS

673

Attachment E Page 1 of 1

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### COMANCHE PEAK RESPONSE TEAM POPULATION ITEMS LIST

### LIST OF INSTRUMENT TUBING "Q" WELDS

# VERIFIED ON THE "WEC-C-WE-REPORT" (POPULATION ITEMS LIST)

# DOCUMENT USED: B&R Weld Data Cards (WDCs)

SYSTEMS: NSS Systems, Unit 1

· · · · ·

Systems	FSI DWG. NO.	NO. WELDS VERIFIED	WEC-C-WE-REPORT* REF. PAGE. NO.
Chemical & Volume Control(CS)	FSI-1-500	39	3904-3907
Reactor Coolant (RC)	FSI-1-501	23	3907-3909
Reactor Coolant (RC)	FSI-1-502	13	3909-3910
Reactor Coolant (RC)	FSI-1-503	13	3910-3912
Reactor Coolant (RC)	FSI-1-504	11	3912-3913
Reactor Coolant (RC)	FSI-1-505	38	3913-3916
Main Steam (MS)	FSI-1-506	29	3916-3919
Main Steam (MS)	FSI-1-506-01	12	3919-3920
Main Steam (MS)	FSI-1-507	5	3920
Main Steam (MS)	FSI-1-507-01	9	3920-3921
Main Steam (MS)	FSI-1-508	5	3921-3922
Main Steam (MS)	FSI-1-508-01	6	3922
Main Steam (MS)	FSI-1-509	5	3922-3923
Main Steam (MS)	FSI-1-509-01	6	3923
Main Steam (MS)	FSI-1-510	5	3923-3924
Main Steam (MS)	FSI-1-510-01	7	3924

Total Number of Welds

226

# POPULATION ITEMS

MEMORANDUM

ATTACHMENT F

SMALL BORE PIPING AND INSTRUMENT TUBING / PIPING WELDS / MATERIAL

TO: John Schauf

FROM: Fred Webster

Reference:

DATE: August 14, 1985

SUBJECT: Large and Small Bore Piping Welds/Population Items List -Units 1 & 2.

> QA/QC-RT-336 (memo from John Schauf to Fred Webster, dated 08/08/85).

Based on the information given in your memo, I recommend that you randomly sample  $[60/(0.3 \times 66,184)] \times 299 = 0.90$ , (i.e., one) weld from the additional 299 large bore welds, and  $[60/(0.7 \times 66,184)] \times 37 = 0.05$  (i.e., one) weld from the additional 37 small bore welds. This will give you an approximate proportional sample for both large and small bore giping welds.

If there are other questions about this, please call me.

Web ed ter

cc: John Hansel CPRT File

FW/TT

CC A PATTERSON J BRAND D. BOULTON ERC FILE VII.C DATE ( 9/13/95)

NOTE ! THE NUMBER OF MISSING WELDS WAS CRIGINALLY DETERMINED FROM A PRILIMINARY REVIEW. AFTER THIS MEMO HAD BEEN ISSUED, A DETAILED REVIEW REVEALED THAT THE ACTUAL NUMBER OF MISSING LARGE BORE WELDS HAD CHNUGEO FROM 299 TO 282, AND THE ACTUAL NUMBER OF MISSING SMALL BORE WELDS HAD CHANGED FROM 37 TO 34. THE RECOMMENDED SAMPLE SIZE HAS NOT CHANGED (AS SHOWN BELLOW) AND THE REASONING OF THE MEMO REMAINS UNCHANGED.

- [60/(0.3 × 66,184)] × 282 = 0.85 (1.e., ONE) RECOMMENDED ADDITIONAL LARGE BORE SAMPLE

-[(60/0.7 x 66,184)] x 34 = 0.04 (1.2., ONE) RECOMMENDED ADDITIONAL SMALL BORE SAMPLE.

PAGE 1 OF 2



POPULATION I TEMS LIST TTACHMENT F

> SMALL BORE PIPING AND INSTRUMENT TUBILE / PIPING WELDS / MATERIAL

> > PAGE 2 OF 2

QA/QC-RT-336

TO: Fred Webster

FROM: John Schauf

DATE: August 8, 1985

SUBJECT: Large and Small Bore Piping Welds/Population Items List Comanche Peak Steam Electric Station - Units 1 and 2

SEARCH

As discussed in our telephone conversation of August 7, 1985, after performing the random sample selections and with the accessibility checks in progress for the subject populations, it was discovered that approximately 299 large bore containment penetration welds (joining the flued head forgings/weld neck flanges to the penetrations sleeves) and 37 small bore tubing welds associated with the reactor containment (Control Pressure transmitters) were not included in the population list.

Presently the total population of site made welds includes 66,184 Large and Small Bore Piping/Instrument Piping/Tubing welds. The distribution (percentile) of Large Bore Welds versus Small Bore (Tubing, Piping) welds is approximately 30% (Large Bore) to 70% (Small Bore Piping Tubing).

The purpose of this memo is to request your assistance in resolving this matter, that is; to provide a method to include these missing welds in our sample process in an un-biased manner and still be able to maintain the 60(Large Bore) and 60(Small Bore) random samples previously selected.

Your response to this question is requested by 8/14/85.

Should you have any questions, please do not hesitate to call me at ext 772.

FUR

OA/OC/Lead Mechanical Engineer

cc: ERC Files

JS/TT

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### COMANCHE PEAK RESPONSE TEAM POPULATION ITEMS LIST

# LIST OF CONTROL PRESSURE TRANSMITTER'S TUBING "Q" WELDS

# NOT INCLUDED ON THE "WEC-C-WE-REPORT" (POPULATION ITEMS LIST)

# DOCUMENT USED: Reactor Containment Penetration and Detail Drawings, BRPs and Field Sketch Instrumentation Drawings (FSIs)

SYSTEMS: Reactor Containment Control Pressure Transmitters

FSI DWG. NO.	FIELD WELD	PENETRATION NO.	INSTRUMENT NO.
FSI-1-133-01	FW-1	M-IV-7	1-PT-937 6 029
FSI-1-133-01	-2	M-IV-7	1-PT-937 £ 938
FSI-1-133-01	-3	M-IV-7	1-PT-937 6 039
FSI-1-133-01	-4	M-IV-7	1-PT-937 6 938
FSI-1-133-01	-5	M-IV-7 .	1-PT-937 6 930
FSI-1-133-01	-6	M-1V-7	1-PT-937 6 938
FSI-1-133-01	-7	M-IV-7	1-PT-937 & 938
FSI-1-133-01	-8	4-IV-7	1-PT-937 & 938
FSI-1-133-01	-9	M-IV-7	1-PT-937 & 938
FSI-1-133-01	-19	M-IV-8	1-PT-936 & 939
FSI-1-133-01	-20	M-IV-8	1-PT-936 & 939
FSI-1-133-01	-21	M-IV-8	1-PT-936 & 939
FSI-1-133-01	FW-22	M-IV-8	1-PT-936 & 939
FSI-1-133-01	-14	M-IV-8	1-PT-936 & 939
FSI-1-133-01	-15	M-IV-8	1-PT-936 & 939
FSI-1-133-01	-16	M-IV-8	1-PT-936 & 939
FSI-1-133-01	-17	M-IV-8	1-PT-936 & 939
FSI-1-133-01	-18	M-IV-8	1-PT-936 & 939
FSI-1-133-02	FW-1	M-IV-10	1-PT-934
FSI-1-133-02	-2	M-IV-10	1-PT-934
FSI-1-133-02	-3	M-IV-10	1-PT-934
FSI-1-133-02	-4A	M-IV-10	1-PT-934
FSI-1-133-02	-5	M-IV-10	1-PT-934
FSI-1-133-02	-6	M-IV-10	1-PT-934
FSI-1-133-02	-7	M-IV-10	1-PT-934
FSI-1-133-02	-8	M-IV-10	1-PT-934
FSI-1-133-02	-20	M-IV- 9	1-PT-935
FSI-1-133-02	-21	M-IV- 9	1-PT-935
FS1-1-133-02	-22	M-IV- 9	1-PT-935
FSI-1-133-02	-12	M-IV- 9	1-PT-935
FSI133-02		M-IV- 9	1-PT-935
FSI133-02		M-IV- 9	1-PT-935
FSI-1-133-02	-13	M-IV- 9	1-PT-935
FSI-1-133-02	-14	M-IV- 9	1-PT-935
FSI-1-133-02	-15	M-IV- 9	1-PT-935
FSI-1-133-02	-16	M-IV- 9	1-PT-935

TOTAL NUMBER OF WELDS

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CA/QC-RT- 537. DATE: 9/17/85

A States

TO: C. Hale, T. Tyler, D. Snow, C. Moelhman, J. Honekamp (3) FRUM: QA/QC Review Team-Records Management

SUBJ: Document Transmittal

The following documents are attached: Population Items List - Mechanical Equipment Installation

Approval Date - 9/16/85

Attachment not distributed - Available in Records Management (EQP-MEI-REPORT)

ZATION :

If you have any questions regarding this transmittal, please call extension 331.

D. Alexander J. Schau

Thompson

Records Management QA/QC Review Team

Attachments

cc: ERC File