

# START



0030167

Mr. John Grantham  
State of Washington  
Department of Ecology  
Nuclear & Mixed Waste Program  
P. O. Box 47600  
Olympia, WA 98504-7600

FLUOR DANIEL, INC.

Date: February 25, 1993

Reference: Hanford Waste Vitrification Plant  
DOE Contract DE-AC06-86RL10838  
Fluor Contract 8457

Transmittal No.: WDOE-339

Dear Mr. Grantham:

TRANSMITTAL

We enclose 1 copy of the items listed below. These are issued per US-DOE request.

Response due to Fluor: N/A  
Responds to: P30A PACKAGE

NUMBER	REV	DATE	TITLE
ATTACHMENT A	VARIOUS	02/02/93	ALL DRAWINGS AND SPECS ON THE SPECIFICATION AND DRAWING LIST (REVISION 2)
ATTACHMENT	1	07/13/92	<p>THE SUMMARY TABLES FOR CONNECTORS, NOZZLES AND ELECTRICAL CONNECTORS.</p> <p>The P30A "Connector Heads and Nozzles" Package consists of drawings and specifications as noted in Revision 2 of the Specification and Drawing List and Summary Tables as noted in Revision 1 of the Connector, Nozzle and Electrical Connector Summary tables issued AFC Revision 0 (WDOE-164, 07/13/92), updated AFC Revision 1 (WDOE-238, 10/14/92) and updated AFC Revision 2 (WDOE-319, 02/03/93).</p> <p>THIS TRANSMITTAL IS ISSUED AT US-DOE REQUEST TO RELEASE THIS LISTED PACKAGE FOR CONSTRUCTION. PLEASE ATTACH THE RELEASE FOR CONSTRUCTION SIGNATURE PAGE TO THE PREVIOUS SUBMITTAL. THE TRANSMITTAL NUMBER AND SUBMITTAL DATE IS LISTED FOR YOUR CONVENIENCE</p> <p>ISSUANCE OF THIS TRANSMITTAL CONSTITUTES COMPLETION OF MILESTONE <u>840</u>.</p>

Distribution:  
REFERENCE: FRP-195, FUP-373  
R. L. Long: DOE-RL W/0  
VPO/AME Corresp Cntrl Cntr, MSIN A5-10 (P30A), w/0  
P. Felise, WHC-RL (MSIN G6-16) w/1  
Environmental Data Management Center (MSIN H4-44) w/1  
D. Duncan, US EPA, Region X w/0

Very truly yours,

*Rosalie Cadenas for*  
R. S. Poulter  
Project Director

H6-08

*JMJ*  
RSP:JMJ:cs



# ATTACHMENT A

HWVP

## P30A CONNECTORS AND NOZZLES SPECIFICATION AND DRAWING LIST

CONTRACT: 845734

February 2, 1993

REVISION 2

DRAWING	SHT	REV	TITLE	REFERENCE
H-2-3808	1	16	Tie Rod Detail, Hanford & PUREX/REDOX Type	H-2-32420 H-2-32427 H-2-32430 H-2-32440
H-2-32400	1	10	Assembly, Upper Electrical Wall & Equipment Connector	Top Assembly
H-2-32400	2	1	Assembly, Upper Electrical Wall & Equipment Connector	Top Assembly
H-2-32408	1	2	Assembly, Wall Type Electrical Connector	Top Assembly
H-2-32420	1	9	Assembly, Horizontal and Vertical 2" Connector	Top Assembly
H-2-32420	2	2	Assembly, Horizontal and Vertical 2" Connector (SPL)	Top Assembly
H-2-32420	3	4	Assembly, Horizontal and Vertical 2" Connector (SPL)	Top Assembly
H-2-32421	1	23	Details, 2" Connector Installation	H-2-32420 H-2-32427
H-2-32423	1	10	Details, Connector Blocks, 2" Connectors	H-2-32420 H-2-32427
H-2-32423	2	10	Details, Connector Blocks, 3-Way 2" Connectors	H-2-32420 H-2-32427
H-2-32423	3	0	Details, Connector Blocks, 2" Connectors	H-2-32420 H-2-32427
H-2-32427	1	8	Horizontal and Vertical 3-Way, Type 2" Connector	Top Assembly
H-2-32427	2	3	Horizontal and Vertical 3-Way, Type 2" Connector	Top Assembly
H-2-32430	1	8	Assembly, Horizontal and Vertical Connector, 3" Connector	Top Assembly
H-2-32430	2	2	Assembly, Horizontal and Vertical Connector, 3" Connector (SPL)	Top Assembly

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# ATTACHMENT A

HWP

## P30A CONNECTORS AND NOZZLES SPECIFICATION AND DRAWING LIST

CONTRACT: 845734

February 2, 1993

REVISION 2

DRAWING	SHT	REV	TITLE	REFERENCE
H-2-32431	1	16	Details, 3" Connector Installation	H-2-32430 H-2-90156
H-2-32433	1	10	Details, Connector Blocks, 3" Connectors	H-2-32430 H-2-90156
H-2-32433	2	12	Details, Connector Blocks, 3-Way 3" Connectors	H-2-32430 H-2-90156
H-2-32433	3	0	Details, Connector Blocks, 3" Connectors	H-2-32430 H-2-90156
H-2-32440	1	8	Assembly, Horizontal and Vertical Connector, 4" Connector	Top Assembly
H-2-32441	1	19	4" Connector Details	H-2-32440
H-2-32443	1	10	Details, Connector Blocks, 4" Connectors	H-2-32440
H-2-32443	2	0	Details, Connector Blocks, 4" Connectors	H-2-32440
H-2-32447	1	12	Details and Assembly, Stainless Steel 2" 3-Way Connector Nozzle	Top Assembly
H-2-68205	1	12	Hook Guide, 2" Connector, PUREX/REDOX Type	Section 15189, H-2-32420 H-2-32427
H-2-68206	1	11	Hook Guide, 3" Connector, PUREX Type	Section 15189, H-2-32430 H-2-90156
H-2-68207	1	11	Hook Guide, 4" Connector, PUREX Connector	Section 15189, H-2-32440
H-2-68209	1	8	Operating Nut, 2" Connector, PUREX/REDOX Type	Section 15190, H-2-32420 H-2-32427

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# ATTACHMENT A

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## P30A CONNECTORS AND NOZZLES SPECIFICATION AND DRAWING LIST

CONTRACT: 845734

February 2, 1993

REVISION 2

DRAWING	SHT	REV	TITLE	REFERENCE
H-2-68210	1	9	Operating Nut, 3" Connector, PUREX/REDOX Type	Section 15190, H-2-32430 H-2-90156
H-2-68211	1	10	Operating Nut, 4" Connector, PUREX/REDOX Type	Section 15190, H-2-32440
H-2-68214	1	8	Skirt, Horizontal 2" Connector, PUREX/REDOX Type	Section 15189, H-2-32420 H-2-32427
H-2-68214	2	2	Skirt, Horizontal 2" Connector, PUREX/REDOX Type	Section 15189, H-2-32420 H-2-32427
H-2-68215	1	7	Skirt, Vertical 2" Connector, PUREX/REDOX Type	Section 15189, H-2-32420 H-2-32427
H-2-68215	2	1	Skirt, Vertical 2" Connector, PUREX/REDOX Type	Section 15189, H-2-32420 H-2-32427
H-2-68218	1	8	Skirt, Horizontal 3" Connector, PUREX/REDOX Type	Section 15189, H-2-32430
H-2-68218	2	7	Skirt, Horizontal 3" Connector, PUREX/REDOX Type	Section 15189, H-2-32430
H-2-68219	1	11	Skirt, Vertical 3" Connector, PUREX/REDOX Type	Section 15189, H-2-32430 H-2-90156
H-2-68220	1	7	Skirt, Horizontal 4" Connector, PUREX/REDOX Type	Section 15189, H-2-32440

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# ATTACHMENT A

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## P30A CONNECTORS AND NOZZLES SPECIFICATION AND DRAWING LIST

CONTRACT: 845734

February 2, 1993

REVISION 2

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DRAWING	SHT	REV	TITLE	REFERENCE
H-2-68220	2	6	Skirt, Horizontal 4" Connector, PUREX/REDOX Type	Section 15189, H-2-32440
H-2-68221	1	9	Skirt, Vertical 4" Connector, PUREX/REDOX Type	Section 15189, H-2-32440
H-2-68222	1	9	Yoke, Electrical Connector, PUREX/REDOX Type	H-2-32400
H-2-68222	2	8	Yoke, Electrical Connector, PUREX/REDOX Type	H-2-32400
H-2-68223	1	9	Operating Screw Plate, Electrical Connector, PUREX/REDOX Type	H-2-32400
H-2-68224	1	7	Wall Receptacle Housing Electrical Connector PUREX/REDOX type	H-2-32408
H-2-68224	2	6	Wall Receptacle Housing Electrical Connector PUREX/REDOX Type	H-2-32408
H-2-68225	1	8	Equipment Receptacle Housing, Electrical Connector, PUREX/REDOX Type	H-2-94991
H-2-68225	2	6	Equipment Receptacle Housing, Electrical Connector, PUREX/REDOX Type	H-2-94991
H-2-68226	1	10	1" & 2" Conduit Plug, Housing, Electrical Connector, PUREX/REDOX Type	H-2-94992
H-2-68226	2	7	1" & 2" Conduit Plug, Housing, Electrical Connector, PUREX/REDOX Type	H-2-94992
H-2-83572	1	0	2" Male Nozzle, PUREX Type/HWVP Connectors	Top Assembly
H-2-83573	1	0	3" Male Nozzle, PUREX Type/HWVP Connectors	Top Assembly
H-2-83574	1	0	4" Male Nozzle, PUREX Type/HWVP Connectors	Top Assembly
H-2-83575	1	0	2" 3-Way Nozzle, PUREX Type/HWVP Assembly	Top Assembly

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## P30A CONNECTORS AND NOZZLES

CONTRACT: 845734

February 2, 1993

### SPECIFICATION AND DRAWING LIST

REVISION 2

DRAWING	SHT	REV	TITLE	REFERENCE
H-2-83575	2	0	2" 3-Way Nozzle, PUREX Type/HWVP Assembly	Top Assembly
H-2-83577	1	0	2" 3-Way Nozzle, PUREX Type/HWVP Assembly	Top Assembly
H-2-83577	2	0	2" 3-Way Nozzle, PUREX Type/HWVP Assembly	Top Assembly
H-2-90152	1	3	Details, Electrical Connector PUREX/REDOX Type	H-2-32400 H-2-94991 H-2-94992
H-2-90156	1	4	Assembly, Vertical Thermowell Single & Double, 3" Connector	Top Assembly
H-2-90156	2	1	Assembly, Vertical Thermowell Single & Double, 3" Connector (SPL)	Top Assembly
H-2-90156	3	1	Assembly, Vertical Thermowell Single & Double, 3" Connector (SPL)	Top Assembly
H-2-90157	1	3	Detail & Assy, Single-Double Thermowell Extension, 3" Connector	H-2-90156
H-2-90157	2	1	Details, Thermowell Adapter Rings, 3" Connector	H-2-90156
H-2-90157	3	0	Details & Assembly, Single-Double Thermowell Extension, 3" Connector (SPL)	H-2-90156
H-2-90174	1	7	Hook-2" Connector, PUREX/REDOX Type	H-2-32420 H-2-32427
H-2-90174	2	1	Hook-2" Connector, PUREX/REDOX Type	H-2-32420 H-2-32427
H-2-90175	1	6	Hook 3" Connector, PUREX/REDOX Type	H-2-32430 H-2-90156
H-2-90175	2	1	Hook 3" Connector, PUREX/REDOX Type	H-2-32430 H-2-90156
H-2-90176	1	4	Hook 4" Connector, PUREX/REDOX Type, Investment Casting	H-2-32440

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## P30A CONNECTORS AND NOZZLES SPECIFICATION AND DRAWING LIST

CONTRACT: 845734

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REVISION 2

DRAWING	SHT	REV	TITLE	REFERENCE
H-2-90176	2	0	Hook 4" Connector, PUREX/REDOX Type, Investment Casting	H-2-32440
H-2-90177	1	6	Hook Electrical Connector, PUREX/REDOX Type, Investment Casting	H-2-32400
H-2-90177	2	1	Hook Electrical Connector, PUREX/REDOX Type	H-2-32400
H-2-90181	1	0	Yoke, Electrical Connector	H-2-32400
H-2-90185	1	3	Male Nozzle, 2" PUREX	Top Assembly
H-2-90185	2	2	Male Nozzle, 2" PUREX	Top Assembly
H-2-90186	1	3	Male Nozzle, 3" PUREX	Top Assembly
H-2-90186	2	1	Male Nozzle, 3" PUREX	Top Assembly
H-2-90187	1	2	Male Nozzle, 4" PUREX	Top Assembly
H-2-90187	2	1	Male Nozzle, 4" PUREX	Top Assembly
H-2-94991	1	0	Assembly, Lower Electrical Equipment Receptacle, PUREX Type	H-2-32401
H-2-94992	1	0	Assembly, Electrical Conduit Plug Housing, PUREX Type	H-2-32400

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# ATTACHMENT A

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## P30A CONNECTORS AND NOZZLES SPECIFICATION AND DRAWING LIST

CONTRACT: 845734

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REVISION 2

### SPECIFICATION INDEX

(B-595-P-P300)

SPECIFICATION TITLE	WHC DOCUMENT NUMBER	HWVP NUMBER (CSI)
Metallic Materials and Parts Substitution	HS-BS-0001	15183
Identification and Tagging Methods for Mechanical Equipment	HS-BS-0015	15196
Nozzle, Remote Connector, Stainless Steel	HS-BP-0018	15185
Electrical Casting, Remote Connector	HS-BP-0070	15187
Hook Casting, Remote Connector	HS-BP-0071	15188
Hook Guide and Skirt Castings, Remote Connector, Stainless Steel	HS-BP-0072	15189
Operating Nut Casting, Remote Connector	HS-BP-0073	15190

HANFORD WASTE VITRIFICATION PLANT  
P30 CONNECTORS, NOZZLES AND ASSOCIATED EQUIPMENT

HORIZONTAL AND VERTICAL CONNECTOR SUMMARY TABLE

CONNECTOR SIZE	2" CONNECTOR			3" CONNECTOR			4" CONNECTOR			2" 3-WAY		
CONNECTOR MATERIAL	304L	316L	C-22	304L	316L	C-22	304L	316L	C-22	304L	316L	C-22
DRAWING REFERENCE	H-2-32420			H-2-32430			H-2-32440			H-2-32427		
250 PACKAGE HORIZONTAL STANDARD	21	25	0	0	0	0	0	0	0	0	0	0
250 PACKAGE HORIZONTAL BLANK	11	0	0	0	0	0	0	0	0	0	0	0
250 PACKAGE VERTICAL BLANK	18	0	0	2	0	0	0	0	0	0	0	0
440 PACKAGE HORIZONTAL STANDARD	3	0	0	0	0	0	0	0	0	0	0	0
440 PACKAGE VERTICAL STANDARD	1	0	0	0	0	0	0	0	0	0	0	0
P05 PACKAGE HORIZONTAL STANDARD	0	0	0	1	0	0	0	0	0	0	0	0
P05 PACKAGE HORIZONTAL BLANK	0	0	0	2	0	0	0	0	0	0	0	0
P05 PACKAGE VERTICAL STANDARD	0	0	0	2	0	0	1	6	5	1	0	0
P05 PACKAGE VERTICAL BLANK	0	0	0	2	0	0	0	0	0	0	0	0

\* THE SUMMARY TOTALS ARE TYPICALLY ROUNDED TO THE NEXT HIGHEST INCREMENT OF FIVE (5)

HANFORD WASTE VITRIFICATION PLANT  
P30 CONNECTORS, NOZZLES AND ASSOCIATED EQUIPMENT

HORIZONTAL AND VERTICAL CONNECTOR SUMMARY TABLE

CONNECTOR SIZE	2" CONNECTOR			3" CONNECTOR			4" CONNECTOR			2" 3-WAY		
CONNECTOR MATERIAL	304L	316L	G-22	304L	316L	G-22	304L	316L	G-22	304L	316L	G-22
DRAWING REFERENCE	H-2-32420			H-2-32430			H-2-32440			H-2-32427		
P06 PACKAGE HORIZONTAL STANDARD	0	0	4	0	0	0	0	0	0	0	0	0
P06 PACKAGE VERTICAL STANDARD	4	0	0	0	0	0	0	0	0	0	0	4
P11 PACKAGE HORIZONTAL STANDARD	312	32	0	48	5	1	4	0	0	114	7	7
P11 PACKAGE HORIZONTAL BLANK	49	18	0	18	2	12	6	0	0	29	0	7
P11 PACKAGE VERTICAL STANDARD	209	42	19	74	15	3	15	8	2	103	16	9
P11 PACKAGE VERTICAL BLANK	39	5	0	44	2	0	6	3	0	4	0	1
P24 PACKAGE VERTICAL STANDARD	5	0	0	0	0	0	0	0	0	4	0	0
P24 PACKAGE VERTICAL BLANK	0	0	0	0	0	0	0	0	0	3	0	0
P31 PACKAGE VERTICAL STANDARD	4	0	0	0	0	0	0	0	0	0	0	0

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HANFORD WASTE VITRIFICATION PLANT  
P30 CONNECTORS, NOZZLES AND ASSOCIATED EQUIPMENT

HORIZONTAL AND VERTICAL CONNECTOR SUMMARY TABLE

CONNECTOR SIZE	2" CONNECTOR			3" CONNECTOR			4" CONNECTOR			2" 3-WAY		
CONNECTOR MATERIAL	304L	316L	G-22	304L	316L	G-22	304L	316L	G-22	304L	316L	G-22
DRAWING REFERENCE	H-2-32420			H-2-32430			H-2-32440			H-2-32427		
P33 PACKAGE VERTICAL BLANK	2	0	0	0	0	0	0	0	0	0	0	0
TOTAL P30 PACKAGE HORIZONTAL STANDARD	340 *	60 *	5 *	55 *	5 *	5 *	5 *	0	0	125 *	10 *	10 *
TOTAL P30 PACKAGE HORIZONTAL BLANK	65 *	20 *	0	25 *	5 *	15 *	10 *	0	0	35 *	0	10 *
TOTAL P30 PACKAGE VERTICAL STANDARD	230 *	45 *	25 *	80 *	20 *	5 *	20 *	15 *	10 *	115 *	20 *	15 *
TOTAL P30 PACKAGE VERTICAL BLANK	65 *	10 *	0	55 *	5 *	0	10 *	5 *	0	10 *	0	5 *

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HANFORD WASTE VITRIFICATION PLANT  
P30 CONNECTORS, NOZZLES AND ASSOCIATED EQUIPMENT

NOZZLE SUMMARY TABLE

NOZZLE SIZE	2" NOZZLE		3" NOZZLE		4" NOZZLE		2" 3-WAY NOZZLE		
	NOZZLE MATERIAL	CD-4MCu	C-22	CD-4MCu	C-22	CD-4MCu	C-22	304L	316L
DRAWING REFERENCE	H-2-90185	H-2-83572	H-2-90186	H-2-83573	H-2-90187	H-2-83574	H-2-32447	H-2-83577	H-2-83575
250 PACKAGE STANDARD	31	5	6	2	7	0	0	1	0
250 PACKAGE PLUGS	0	0	0	0	0	0	0	1	0
440 PACKAGE STANDARD	21	0	8	0	0	0	0	0	0
P01 PACKAGE STANDARD	466	7	75	13	10	0	140	7	0
P05 PACKAGE STANDARD	80	68	36	70	11	22	13	15	8
P05 PACKAGE PLUGS	0	0	0	0	0	0	13	9	2
P06 PACKAGE STANDARD	19	2	9	0	0	0	18	0	4
P06 PACKAGE PLUGS	0	0	0	0	0	0	7	0	8
P08 PACKAGE STANDARD	26	0	4	0	4	0	0	6	0
P08 PACKAGE PLUGS	0	0	0	0	0	0	0	5	0
P11 PACKAGE STANDARD	31	4	2	2	1	1	21	13	39
P11 PACKAGE PLUGS	0	0	0	0	0	0	30	25	59
P17 PACKAGE STANDARD	0	0	0	0	0	0	0	1	0
P24 PACKAGE STANDARD	10	0	0	0	0	0	5	6	4

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HANFORD WASTE VITRIFICATION PLANT  
P30 CONNECTORS, NOZZLES AND ASSOCIATED EQUIPMENT

NOZZLE SUMMARY TABLE

NOZZLE SIZE	2" NOZZLE		3" NOZZLE		4" NOZZLE		2" 3-WAY NOZZLE		
	NOZZLE MATERIAL	CD-4MCu	G-22	CD-4MCu	G-22	CD-4MCu	G-22	304L	316L
DRAWING REFERENCE	H-2-90185	H-2-83572	H-2-90186	H-2-83573	H-2-90187	H-2-83574	H-2-32447	H-2-83577	H-2-83575
P31 PACKAGE STANDARD	10	18	5	7	1	1	5	8	6
P31 PACKAGE PLUGS	0	0	0	0	0	0	4	6	2
P33 PACKAGE STANDARD	1	0	0	0	0	0	0	0	0
TOTAL P30 PACKAGE STANDARD	710 *	115 *	155 *	100 *	40 *	30 *	215 *	65 *	70 *
TOTAL P30 PACKAGE PLUGS	0	0	0	0	0	0	60 *	55 *	80 *

\* THE SUMMARY TOTALS ARE TYPICALLY ROUNDED TO THE NEXT HIGHEST INCREMENT OF FIVE (5)

HANFORD WASTE VITRIFICATION PLANT  
 P30 CONNECTORS, NOZZLES AND ASSOCIATED EQUIPMENT

ELECTRICAL LOWER CONNECTOR SUMMARY TABLE

TYPE OF LOWER CONNECTOR	WALL MOUNTED SIDE OUTLET	EQUIPMENT MOUNTED SIDE OUTLET	SPECIAL ASSEMBLIES
DRAWING REFERENCE	H-2-32408	H-2-94991	H-2-90186
440 PACKAGE STANDARD	8	0	3 THERMOWELL NOZZLES
P01 PACKAGE STANDARD	239	0	18 THERMOWELL NOZZLES
P01 PACKAGE BLANK	28	0	
P04 PACKAGE STANDARD	0	8	
P05 PACKAGE STANDARD	0	73	15 THERMOWELL NOZZLES
P06 PACKAGE STANDARD	0	39	3 THERMOWELL NOZZLES
P08 PACKAGE STANDARD	1	27	
P11 PACKAGE STANDARD	0	54	
P16 PACKAGE STANDARD	0	41	
P17 PACKAGE STANDARD	0	2	
P24 PACKAGE STANDARD	0	13	
P25 PACKAGE STANDARD	2	6	
P31 PACKAGE STANDARD	0	17	6 THERMOWELL NOZZLES
TOTAL P30 PACKAGE STANDARD NOZZLES	260 *	290 *	50 * THERMOWELL NOZZLES
TOTAL P30 PACKAGE BLANK NOZZLES	30 *	0	

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HANFORD WASTE VITRIFICATION PLANT  
P30 CONNECTORS, NOZZLES AND ASSOCIATED EQUIPMENT

ELECTRICAL UPPER CONNECTOR SUMMARY TABLE

DRAWING REFERENCE	UPPER CONNECTOR ASSEMBLY H-2-32400	SPECIAL ASSEMBLIES H-2-90156
440 PACKAGE STANDARD	8	
P06 PACKAGE STANDARD	6	
P11 PACKAGE STANDARD	437	45 THERMOWELL CONNECTORS
P11 PACKAGE BLANK	74	
TOTAL P30 STANDARD UPPER ELECTRICAL CONNECTORS	460 *	50 * THERMOWELL CONNECTORS
TOTAL P30 BLANK UPPER ELECTRICAL CONNECTORS	80 *	

\* THE SUMMARY TOTALS ARE TYPICALLY ROUNDED TO THE NEXT HIGHEST INCREMENT OF FIVE (5)

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HANFORD WASTE VITRIFICATION PLANT  
 P30 CONNECTORS, NOZZLES AND ASSOCIATED EQUIPMENT

MISCELLANEOUS CONNECTOR COMPONENT SUMMARY TABLE

ITEM NO.	MATERIAL	DESCRIPTION	QTY	PKG NO.	DRAWING REFERENCE
<b>2" VERTICAL CONNECTORS</b>					
1	304L SS	2" BLOCK, 2" SIDE, 1" BOTTOM	5 *	P11	H-2-32420
2	304L SS	2" BLOCK, 1" SIDE, 1" BOTTOM	5 *	P11	H-2-32420
<b>3" VERTICAL CONNECTORS</b>					
3	304L SS	3" BLOCK, 2" SIDE, 2" BOTTOM (DIP TUBE)	5 *	P11	H-2-32430
4	316L SS	3" BLOCK, 2" SIDE, 2" BOTTOM (DIP TUBE)	5 *	P11	H-2-32430
5	C-22	3" BLOCK, 2" SIDE, 2" BOTTOM (DIP TUBE)	5 *	P11	H-2-32430
6	316L SS	3" BLOCK, 1" SIDE, 2" BOTTOM	5 *	P11	H-2-32430
7	304L SS	3" BLOCK, 2" SIDE	5 *	P11	H-2-32430
8	316L SS	3" BLOCK, 2" SIDE	5 *	P11	H-2-32430
9	C-22	3" BLOCK, 2" SIDE	5 *	P11	H-2-32430
<b>4" VERTICAL CONNECTORS</b>					
10	304L SS	4" BLOCK WITH 3 EACH 1/2" AND 4" SEAL (DIP TUBE)	5 *	P11	H-2-32440
<b>MISCELLANEOUS BLOCK INFORMATION</b>					
11	316L SS	4" BLOCK, 3" SIDE, 3" BOTTOM (DIP TUBE)	5 *	P11	H-2-32440
12	C-22	2" 3-WAY BLOCK 3/8" SCH 80	5 *	P06	H-2-32427
13	C-22	2" 3-WAY BLOCK 3/8" SCH 80	5 *	P11	H-2-32427

\* THE SUMMARY TOTALS ARE TYPICALLY ROUNDED TO THE NEXT HIGHEST INCREMENT OF FIVE (5)

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**RELEASED FOR CONSTRUCTION**  
**SIGNATURE PAGE**

This transmittal is issued at US-DOE request to release this package for construction. The signatures apply to all media as delineated on this transmittal sheet.

- Construction Package No. \_\_\_\_\_ Title: \_\_\_\_\_
- Procurement Package No. P30A Title: CONNECTOR HEADS AND NOZZLES  
REV 2

**DESIGN MEDIA APPROVAL**

MA Williams for RSP  
Fluor Daniel Project Director

Date 2-8-93

**REVIEWED FOR COMPLIANCE  
TO BASELINE DOCUMENTS**

A. B. Smith  
WHC Project Manager

Date 2/10/93.

**REVIEWED FOR CONSTRUCTABILITY**

W. J. Smith  
UCAT Project Manager

Date 2-12-93

**RELEASED FOR CONSTRUCTION**

James E. [Signature]  
DOE VPG Engineering Supervisor

Date 2-18-93