

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: May 11, 1993

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

Transmittal No.: WDOE-423

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: E420 PACKAGE

NUMBER	REV	DATE	TITLE
SEE TRANSMITTAL ATTACHMENT	----	-----	E420 PACKAGE, HIGH VOLTAGE TRANSMISSION LINE AND SWITCHYARD FINAL DESIGN REVIEW
			NOTE: PLEASE SEE ATTACHED WHC INTERNAL MEMO 7F131-93-057.

Reference: FRP-931, FUP-458
 Distribution:
 R. L. Long: DOE-RL, w/0
 TWP/AME Corresp Cntrl Cntr, MSIN A5-10
 (E420 PACKAGE), w/0
 P. Felise, WHC-RL (MSIN G6-16), w/0
 Environmental Data Management Center
 (MSIN H6-08), w/0
 D. Duncan, US EPA, Region X, w/0

Very truly yours,

Rosalie Cadenas for
 R. S. Poulter
 Project Director

MHF
 RSP:MHF:lt



From: HWVP A/E Resident Engineering 7F131-93-057
Phone: (714) 975-6553 Irvine, CA
Date: May 10, 1993
Subject: E420 PACKAGE, HIGH VOLTAGE LINE AND SUBSTATION FINAL DESIGN REVIEW
SUBMITTAL

To: C. A. Augustine G6-02*
D. G. Baide G6-16*
R. U. Elwell(1) Irvine
P. Felise G6-06*
J. M. Hache S2-62*
C. S. Haller(3) G6-04
T. G. Halverson G6-14*
J. D. Phillips Irvine*
M. J. Rackley(I) Irvine
L. D. Swenson G6-07*
J. Weber G6-07*
G. D. Wright R3-10*

cc: J. N. Autrey(2) G6-06
A. Cornilius(1) H1-62
J. R. Hoyle (1) Irvine
B. G. Finch(1) Irvine
D. P. Mendoza G6-04*
M. D. Gerken(1) G6-02
W. Ackerson(4) S2-62
J. E. Peterson(1) R3-54
HWVP DPC G6-51
BGF File/LB
*w/o attachments

The Final Design Review (FDR) meeting for the above subject package will be scheduled to be held on June 8, 1993. The delay in the schedule date is due to the incorporation of all of the IDR#3 and Courtesy Review comments within the design package. Much effort has been expended in incorporating all of the previous comments.

Please review the attached FDR submittal as expeditiously as possible to prevent any further slippage in the submittal schedule. A response date for comments has been set for May 28, 1993. Please submit all comments to me (via cc:Mail) no later than this date. Your cooperation in a rapid turn-around of the FDR issue is greatly appreciated. The turn-around time should be adequate to verify that previous comments have been picked up since this is the fourth review of this package.

The intent of the FDR is to ensure that all agreed comments and concerns have been dispositioned. The FDR is not a time to bring up new comments, concerns

C.A. Augustine, et al.
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and new criteria, so please limit this review to verifying that all comments have been satisfactorily dispositioned. If any comments have not been dispositioned satisfactorily, please contact me as soon as possible. Your support on this package is greatly appreciated.

If you have any questions on the above subject, please contact me on (714) 975-6553.



J.R. Hoyle
Review Chairperson
HWVP A/E Resident Engineer

Attachments

bcc: DOE-RL	R. L. Long (1)	G6-03
Fluor	M. H. Featherston	Irvine
UCAT	G. L. Levan	N1-04
	F. D. Pettit	N1-04
	E. D. Thompson	Irvine

TRANSMITTAL ATTACHMENT FOR PACKAGE DRAWINGS

PACKAGE NUMBER: E420

<u>DRAWING NUMBER</u>	<u>SHT NO.</u>	<u>REV</u>	<u>DATE</u>	<u>DRAWING TITLE</u>	<u>SOFTWARE</u>
H-2-117122	1	00	05/05/93	CIVIL HV TRANS LINES INFORMATION SHEET	A
H-2-117128	1	00	05/05/93	CIVIL HV TRANS LINES SUBSTATION SITE & GRADING PLAN	A
H-2-116015	1	00	05/05/93	HIGH VOLTAGE TRANSMISSION LINE AND SWITCHYARD TITLE SHEET	A
H-2-116016	1	00	05/05/93	HIGH VOLTAGE TRANSMISSION LINE AND SWITCHYARD DRAWING INDEX	A
H-2-116501	1	00	05/05/93	ELECTRICAL 230-13.8 kV ONE LINE DIAGRAM	
H-2-116501	2	00	05/05/93	ELECTRICAL ONE LINE SYMBOLS, ABBREVIATIONS & LEGEND	
H-2-116502	1	00	05/05/93	ELECTRICAL 230-13.8 kV THREE LINE DIAGRAM	
H-2-116502	2	00	05/05/93	ELECTRICAL 230-13.8 kV THREE LINE DIAGRAM	
H-2-116503	1	00	05/05/93	ELECTRICAL TRANSMISSION/DISTRIBUTION SYSTEM PHASING DIAGRAM	
H-2-116503	2	00	05/05/93	ELECTRICAL TRANSMISSION/DISTRIBUTION SYSTEM PHASING DIAGRAM	
H-2-116504	1	00	05/05/93	STRUCTURAL SUBSTATION FOUNDATION PLAN	
H-2-116505	1	00	05/05/93	STRUCTURAL SUBSTATION FOUNDATION DETAILS	
H-2-116505	2	00	05/05/93	STRUCTURAL SUBSTATION FOUNDATION DETAILS	
H-2-116505	3	00	05/05/93	STRUCTURAL SUBSTATION FOUNDATION DETAILS	
H-2-116505	4	00	05/05/93	STRUCTURAL SUBSTATION FOUNDATION DETAILS	
H-2-116505	5	00	05/05/93	STRUCTURAL SWITCHGEAR BUILDING FOUNDATION DETAILS	
H-2-116505	6	00	05/05/93	STRUCTURAL SWITCHGEAR BUILDING FOUNDATION DETAILS	
H-2-116505	7	00	05/05/93	STRUCTURAL SWGR BUILDING STAIR DETAILS & LIGHT POLE FDN	
H-2-116506	1	00	05/05/93	ELECTRICAL SUBSTATION UNDERGROUND CONDUIT PLAN	
H-2-116506	2	00	05/05/93	ELECTRICAL CONDUIT SCHEDULE	
H-2-116507	1	00	05/05/93	ELECTRICAL CONTROL CABLE SCHEDULE	
H-2-116507	2	00	05/05/93	ELECTRICAL CONTROL CABLE SCHEDULE	
H-2-116507	3	00	05/05/93	ELECTRICAL CONTROL CABLE SCHEDULE	
H-2-116508	1	00	05/05/93	ELECTRICAL SUBSTATION CONDUIT DETAILS	
H-2-116508	2	00	05/05/93	ELECTRICAL SUBSTATION CONDUIT DETAILS	
H-2-116509	1	00	05/05/93	ELECTRICAL SUBSTATION GROUNDING PLAN	
H-2-116510	1	00	05/05/93	ELECTRICAL SUBSTATION GROUNDING DETAILS	
H-2-116510	2	00	05/05/93	ELECTRICAL SUBSTATION GROUNDING DETAILS	
H-2-116510	3	00	05/05/93	ELECTRICAL SUBSTATION GROUNDING DETAILS	

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<u>DRAWING NUMBER</u>	<u>SHT NO.</u>	<u>REV</u>	<u>DATE</u>	<u>DRAWING TITLE</u>	<u>SOFTWARE</u>
H-2-116511	1	00	05/05/93	ELECTRICAL SUBSTATION GENERAL ARRANGEMENT	
H-2-116512	1	00	05/05/93	STRUCTURAL STEEL ERECTION PLAN	
H-2-116512	2	00	05/05/93	STRUCTURAL STEEL ERECTION	
H-2-116513	1	00	05/05/93	ELECTRICAL SUBSTATION EQUIPMENT ARRANGEMENT PLAN	
H-2-116514	1	00	05/05/93	ELECTRICAL SUBSTATION EQUIPMENT ARRANGEMENT SECTION A	
H-2-116514	2	00	05/05/93	ELECTRICAL SUBSTATION EQUIPMENT ARRANGEMENT SECTION B	
H-2-116514	3	00	05/05/93	EQUIPMENT ARRANGEMENT SECTION C	
H-2-116514	4	00	05/05/93	ELECTRICAL SUBSTATION EQUIPMENT ARRANGEMENT SECTIONS D & E	
H-2-116515	1	00	05/05/93	ELECTRICAL SUBSTATION BUS DUCT PLAN	
H-2-116516	1	00	05/05/93	ELECTRICAL SUBSTATION BUS DUCT ELEVATIONS	
H-2-116517	1	00	05/05/93	ELECTRICAL SUBSTATION OUTDOOR LIGHTING PLAN	
H-2-116518	1	00	05/05/93	ELECTRICAL SUBSTATION LIGHTNING PROTECTION PLAN	
H-2-116519	1	00	05/05/93	ELECTRICAL SUBSTATION BILL OF MATERIALS	
H-2-116520	1	00	05/05/93	ELECTRICAL SWITCHGEAR BUILDING EQUIPMENT PLAN & SECTIONS	
H-2-116520	2	00	05/05/93	ELECTRICAL SWITCHGEAR BUILDING CABLE TRAY PLAN & DETAILS	
H-2-116520	3	00	05/05/93	ELECTRICAL SWITCHGEAR BUILDING LIGHTING PLAN & SECTIONS	
H-2-116520	4	00	05/05/93	ELECTRICAL SWITCHGEAR BUILDING POWER PLAN	
H-2-116520	5	00	05/05/93	ELECTRICAL SWITCHGEAR BUILDING GROUNDING	
H-2-116520	6	00	05/05/93	ELECTRICAL SWITCHGEAR BUILDING COMMUNICATION PLAN	
H-2-116520	7	00	05/05/93	ELECTRICAL SWITCHGEAR BUILDING FIRE PROTECTION PLAN	
H-2-116520	8	00	05/05/93	ELECTRICAL SWITCHGEAR BUILDING CONDUIT DETAILS	
H-2-116521	1	00	05/05/93	ELECTRICAL SWITCHGEAR BUILDING BILL OF MATERIALS	
H-2-116525	1	00	05/05/93	ELECTRICAL SWITCHGEAR BUILDING FIRE PROTECTION SCHEMATIC	
H-2-116526	1	00	05/05/93	ELECTRICAL 230 kV CIRCUIT BREAKER A362 SCHEMATIC	
H-2-116526	2	00	05/05/93	ELECTRICAL 230 kV CIRCUIT BREAKER A366 SCHEMATIC	
H-2-116526	3	00	05/05/93	ELECTRICAL 230 kV CIRCUIT BREAKER A364 SCHEMATIC	
H-2-116526	4	00	05/05/93	ELECTRICAL LINE RELAYING & DRT, PRT SCHEMATICS	
H-2-116526	5	00	05/05/93	ELECTRICAL BUS #1 & BUS #2 DIFF RELAYING DC SCHEMATIC	
H-2-116526	6	00	05/05/93	ELECTRICAL TRANSFORMER #1 RELAYING DC SCHEMATIC	

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H-2-116526	7	00	05/05/93	ELECTRICAL TRANSFORMER #2 RELAYING DC SCHEMATIC	
H-2-116526	8	00	05/05/93	ELECTRICAL 230 kV BREAKER FAILURE RELAYING SCHEMATIC	
H-2-116526	9	00	05/05/93	ELECTRICAL 13.8 kV CIRCUIT BREAKER SCHEMATICS	
H-2-116526	10	00	05/05/93	ELECTRICAL ANNUNCIATOR SCHEMATIC & PANEL LAYOUT	
H-2-116526	11	00	05/05/93	ELECTRICAL BATTERY SYSTEM & SWITCH OPERATOR SCHEMATICS	
H-2-116526	12	00	05/05/93	ELECTRICAL SCADA RTU CONTROL, ANALOG INDICATION SCHEDULES	
H-2-116527	1	00	05/05/93	ELECTRICAL 230KV LINE TO A22 PANEL WIRING DIAGRAM	
H-2-116527	2	00	05/05/93	ELECTRICAL XFMR T2 AND XFMR T4 PANEL WIRING DIAGRAM	
H-2-116527	3	00	05/05/93	ELECTRICAL ANNUNCIATOR PANEL WIRING DIAGRAM	
H-2-116527	4	00	05/05/93	ELECTRICAL XFMR T1 AND XFMR T3 PANEL WIRING DIAGRAM	
H-2-116527	5	00	05/05/93	ELECTRICAL 230 kV LINE TO A8 PANEL WIRING DIAGRAM	
H-2-116527	6	00	05/05/93	ELECTRICAL TONE EQUIPMENT RACK WIRING DIAGRAM	
H-2-116527	7	00	05/05/93	ELECTRICAL SWITCHGEAR UNIT #1 WIRING DIAGRAM	
H-2-116527	8	00	05/05/93	ELECTRICAL SWITCHGEAR UNIT #2 WIRING DIAGRAM SHEET 1	
H-2-116527	9	00	05/05/93	ELECTRICAL SWITCHGEAR UNIT #2 WIRING DIAGRAM SHEET 2	
H-2-116527	10	00	05/05/93	ELECTRICAL SWITCHGEAR UNIT #3 WIRING DIAGRAM SHEET 1	
H-2-116527	11	00	05/05/93	ELECTRICAL SWITCHGEAR UNIT #3 WIRING DIAGRAM SHEET 2	
H-2-116527	12	00	05/05/93	ELECTRICAL SWITCHGEAR UNIT #4 WIRING DIAGRAM SHEET 1	
H-2-116527	13	00	05/05/93	ELECTRICAL SWITCHGEAR UNIT #4 WIRING DIAGRAM SHEET 2	
H-2-116527	14	00	05/05/93	ELECTRICAL SWITCHGEAR UNIT #5 WIRING DIAGRAM	
H-2-116527	15	00	05/05/93	ELECTRICAL 230 kV BREAKER A362 WIRING DIAGRAM	
H-2-116527	16	00	05/05/93	ELECTRICAL 230 kV BREAKER A364 WIRING DIAGRAM	
H-2-116527	17	00	05/05/93	ELECTRICAL 230 kV BREAKER A366 WIRING DIAGRAM	
H-2-116527	18	00	05/05/93	ELECTRICAL 230-13.8 kV TRANSFORMER T1 WIRING DIAGRAM	
H-2-116527	19	00	05/05/93	ELECTRICAL 230-13.8 kV TRANSFORMER T2 WIRING DIAGRAM	
H-2-116527	20	00	05/05/93	ELECTRICAL ZIG-ZAG GROUNDING XFMRs T3 & T4 WIRING DIAGRAMS	
H-2-116527	21	00	05/05/93	ELECTRICAL MOD A3601 WIRING DIAGRAM	
H-2-116527	22	00	05/05/93	ELECTRICAL 230 kV VOLTAGE TRANSFORMER WIRING DIAGRAMS	
H-2-116527	23	00	05/05/93	ELECTRICAL BATTERY CHARGER WIRING DIAGRAMS	

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H-2-116528	1	00	05/05/93	ELECTRICAL RELAY PANEL LAYOUT	
H-2-116528	2	00	05/05/93	ELECTRICAL RELAY PANEL FABRICATION DET & BILL OF MATERIALS	
H-2-116528	3	00	05/05/93	ELECTRICAL REMOTE TERMINAL UNIT LAYOUT	
H-2-116529	1	00	05/05/93	STRUCTURAL STEEL FABRICATION ASSEMBLIES	
H-2-116529	2	00	05/05/93	STRUCTURAL STEEL FABRICATION ASSEMBLIES	
H-2-116529	3	00	05/05/93	STRUCTURAL STEEL FABRICATION ASSEMBLIES	
H-2-116529	4	00	05/05/93	STRUCTURAL STEEL FABRICATION ASSEMBLIES	
H-2-116529	5	00	05/05/93	STRUCTURAL STATIC MAST POLE	
H-2-116529	6	00	05/05/93	STRUCTURAL SWITCH OPERATOR PLATFORM	
H-2-116529	7	00	05/05/93	STRUCTURAL STEEL PLATE DETAILS	
H-2-116529	8	00	05/05/93	STRUCTURAL STEEL PLATE DETAILS	
H-2-116530	1	00	05/05/93	ELECTRICAL RTU WIRING DIAGRAM TOP HALF	
H-2-116530	2	00	05/05/93	ELECTRICAL RTU WIRING DIAGRAM TOP HALF	
H-2-116532	1	00	05/05/93	STRUCTURAL 230 kV TOWER DETAILS TANGENT STRUCTURES	
H-2-116532	2	00	05/05/93	STRUCTURAL 230 kV TOWER DETAILS MEDIUM ANGLE STRUCTURES	
H-2-116532	3	00	05/05/93	STRUCTURAL 230 kV TOWER DETAILS SMALL ANGLE STRUCTURES	
H-2-116532	4	00	05/05/93	STRUCTURAL 230 kV TOWER DETAILS DEAD END STRUCTURES	
H-2-116532	5	00	05/05/93	STRUCTURAL 230 kV TOWER DET PHASE TRANSPOSITION STRUCTURE	
H-2-116532	6	00	05/05/93	STRUCTURAL 230 kV XMSN LINE ANCHOR, GUYING & FDN DETAILS	
H-2-116537	1	00	05/05/93	ELECTRICAL 13.8 kV DISTRIBUTION LINE RISER STRUCTURE	
H-2-116537	2	00	05/05/93	ELECTRICAL 13.8 kV DISTRIBUTION LINE R STRUCT, BILL OF MATLS	
H-2-116537	3	00	05/05/93	STRUCTURAL 13.8 kV DISTR RISER STRUCT AHR, GUYING & FDN DET	
H-2-116537	4	00	05/05/93	STRUCTURAL 13.8 kV DISTRIBUTION LINE TANGENT STRU	
H-2-116540	1	00	05/05/93	ELECTRICAL 13.8 kV POWER CABLE/RACEWAY PLAN	
H-2-116540	2	00	05/05/93	ELECTRICAL 13.8 kV POWER CABLE/RACEWAY DETAILS	
H-2-116542	1	00	05/05/93	ELECTRICAL SWITCHGEAR BUILDING PANEL SCHEDULES	
H-2-116543	1	00	05/05/93	STRUCTURAL SWITCHGEAR BUILDING CONSTRUCTION	
H-2-116544	1	00	05/05/93	ELECTRICAL A8 SUBSTATION FIBER OPTIC LINE ROUTING PLAN	
H-2-116544	2	00	05/05/93	ELECTRICAL A8 SUBSTATION SWITCHGEAR BLDG FIBER OPTIC PLAN	

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<u>DRAWING NUMBER</u>	<u>SHT NO.</u>	<u>REV</u>	<u>DATE</u>	<u>DRAWING TITLE</u>	<u>SOFTWARE</u>
H-2-116545	1	00	05/05/93	ELECTRICAL COMMUNICATIONS BLOCK DIAGRAMS	
H-2-116546	1	00	05/05/93	ELECTRICAL TELEPHONE COMMUNICATIONS SYSTEM	
H-2-116547	1	00	05/05/93	ELECTRICAL COMMUNICATIONS RACK LAYOUTS & BILL OF MATERIALS	
H-2-116548	1	00	05/05/93	ELECTRICAL COMMUNICATIONS CABLE RUNNING LIST	
H-2-116549	1	00	05/05/93	STRUCTURAL TRANSMISSION LINE EXST STRUCTURE OHGW MOD	
H-2-117123	1	00	05/05/93	STRUCTURAL EAST TRANSMISSION LINE PLAN & PROFILE	
H-2-117124	1	00	05/05/93	STRUCTURAL WEST TRANS LINE/FO CABLE PLAN & PROFILE	
H-2-117125	1	00	05/05/93	STRUCTURE EAST TRANSMISSION LINE PLAN & PROFILE	
H-2-117126	1	00	05/05/93	STRUCTURAL WEST TRANS LINE/FO CABLE PLAN & PROFILE	
H-2-117127	1	00	05/05/93	STRUCTURAL 13.8 kV DISTRIBUTION LINES PLAN & PROFILE	
H-2-117129	1	00	05/05/93	STRUCTURAL FIBER OPTIC CABLE AGL 29 AND A8 SUBSTATION	
H-2-117130	1	00	05/05/93	STRUCTURAL STEEL FAB ASSYS A24,A30,A31,A32,A33 & A34	
H-2-117130	2	00	05/05/93	STRUCTURAL STEEL FAB ASSYS A25,A26,A27,A28,A29 & A34	
H-2-117130	3	00	05/05/93	STRUCTURAL STEEL FAB ASSEMBLIES A41 & A42	
H-2-117130	4	00	05/05/93	STRUCTURAL STEEL FAB ASSEMBLIES A35 & A36	
H-2-117130	5	00	05/05/93	STRUCTURAL STEEL FAB ASSEMBLIES A37,A38,A39 & A40	
H-2-117130	6	00	05/05/93	STRUCTURAL PHASE TRANSPOSITION STEEL FAB ASSEMBLY 44	
H-2-117131	1	00	05/05/93	STRUCTURAL DESIGN DATA & ABBREVIATIONS	

TRANSMITTAL ATTACHMENT FOR PACKAGE SPECIFICATIONS

<u>SPEC NUMBER</u>	<u>PKG SIGN DATE</u>	<u>PKG REV</u>	<u>SECT REV</u>	<u>SECTION</u>	<u>SECTION TITLE</u>
B-595-C-E420	E420	00		HIGH VOLTAGE TRANSMISSION LINE AND SWITCHYARD	
	05/05/93		00	02100	PRELIMINARY SITE WORK
	05/05/93		00	02220	EXCAVATION AND BACKFILL
	05/05/93		00	02231	AGGREGATES FOR ACCESS ROAD AND ROCK SURFACING
	05/05/93		00	02830	STEEL CHAIN-LINK FENCE
	05/05/93		00	03200	CONCRETE REINFORCEMENT
	05/05/93		00	03252	CONCRETE ANCHORS
	05/05/93		00	03300	CAST IN PLACE CONCRETE
	05/05/93		00	03600	GROUT
	05/05/93		00	05060	WELDING-STRUCTURAL
	05/05/93		00	05120	STRUCTURAL STEEL
	05/05/93		00	05130	STEEL TRANSMISSION STRUCTURES
	05/05/93		00	09900	PAINTING
	05/05/93		00	13120	PRE-ENGINEERED STEEL BUILDING
	05/05/93		00	15503	CARBON DIOXIDE EXTINGUISHING SYSTEMS
	05/05/93		00	16122	15 kV CABLE
	05/05/93		00	16144	BATTERIES AND CHARGES

TRANSMITTAL ATTACHMENT FOR PACKAGE SPECIFICATIONS

<u>SPEC NUMBER</u>	<u>PKG SIGN DATE</u>	<u>PKG REV</u>	<u>SECT REV</u>	<u>SECTION</u>	<u>SECTION TITLE</u>
B-595-C-E420	E420	00		HIGH VOLTAGE TRANSMISSION LINE AND SWITCHYARD	
	05/05/93		00	16331	POWER TRANSFORMER
	05/05/93		00	16346	13.8 kV SWITCHGEAR AND BUS DUCT
	05/05/93		00	16347	230 kV POWER CIRCUIT BREAKER
	05/05/93		00	16952	CONDUIT
	05/05/93		00	16954	CABLE TRAYS
	05/05/93		00	16955	DUCTBANK
	05/05/93		00	16959	GROUNDING AND BONDING
	05/05/93		00	16960	EQUIPMENT WIRING SYSTEMS
	05/05/93		00	16961	ELECTRICAL IDENTIFICATION
	05/05/93		00	16962	DISTRIBUTION TRANSFORMERS
	05/05/93		00	16963	HIGH VOLTAGE AIR BREAK SWITCHES
	05/05/93		00	16964	OVERHEAD POWER DISTRIBUTION
	05/05/93		00	16966	PANELBOARDS
	05/05/93		00	16967	ENCLOSED CIRCUIT BREAKERS
	05/05/93		00	16969	INTERIOR LUMINAIRES
	05/05/93		00	16970	SITE LIGHTING
	05/05/93		00	16971	LIGHTNING PROTECTION SYSTEM
	05/05/93		00	16974	RELAY PANELS

TRANSMITTAL ATTACHMENT FOR PACKAGE SPECIFICATIONS

<u>SPEC NUMBER</u>	<u>PKG SIGN DATE</u>	<u>PKG REV</u>	<u>SECT REV</u>	<u>SECTION</u>	<u>SECTION TITLE</u>
B-595-C-E420	E420	00		HIGH VOLTAGE TRANSMISSION LINE AND SWITCHYARD	
	05/05/93		00	16975	ZIG-ZAG GROUNDING TRANSFORMERS AND GROUNDING RESISTORS
	05/05/93		00	16976	230 kV OVERHEAD TRANSMISSION
	05/05/93		00	16978	BUS AND INSULATION SYSTEM
	05/05/93		00	16979	ELECTRIC POWER SYSTEM TESTING
	05/05/93		00	16980	UNDERGROUND DISTRIBUTION
	05/05/93		00	16981	TRANSFER SWITCH
	05/05/93		00	16983	HEAT PUMP
	05/05/93		00	16984	RFL 6750 TONE EQUIPMENT
	05/05/93		00	16985	CABLE TRENCH
	05/05/93		00	16986	230 kV VOLTAGE TRANSFORMERS
	05/05/93		00	16987	COMMUNICATIONS EQUIPMENT
	05/05/93		00	16990	SUBSTATION EQUIPMENT INSTALLATION
	05/05/93		00	16991	REMOTE TERMINAL UNIT