



DOCUMENT CHANGE NOTICE (DCN)

DOCUMENT No. (DOC-REV-GP. ID)	TITLE	NEW REV.
	See drawing list E980094-00-W, attached	

CHANGE DESCRIPTION (FROM/TO): Various revisions as noted on drawings:

1) as-built updates for AC panelboard subassemblies A1-1, A2-1, A3-1 and Heater Blanket Relay Panel Assemblies H1, H2-1, H3-1 and H4-1.

2) portable AC power assemblies and DC power assembly drawings updated for initiation of electrical services contract work.

3) All documents now available on-line in PDF form. The "A" revision docs were previously released under DCNs E980007-00-W, E980009-00-W or E980032-00-W; E980193-B-W was previously released under DCN E980002-00-W; D980067-B-W was previously released under DCN E980014-00.pdf.

REASON FOR CHANGE: Incorporate all changes prior to starting contract work; electronic resubmission of "A" versions

ACTION: Incorporate change Attach DCN to drawing(s) Other action (specify):

DISPOSITION OF HARDWARE (IDENTIFY SERIAL NUMBERS)	DCN DISTRIBUTION (X=incl. docs)
<input type="checkbox"/> No hardware affected (record change only)	Althouse Barish Coles
<input type="checkbox"/> List S/Ns which comply already:	Coyne Lazzarini Lindquist
<input type="checkbox"/> List S/Ns to be reworked or scrapped:	Raab Sanders Shoemaker
<input checked="" type="checkbox"/> List S/Ns to be built with this change: All	Stapfer Tyler Weiss
<input type="checkbox"/> List S/Ns to be retested per this change:	Whitcomb Zydowicz
<input type="checkbox"/>	M. Lubinski
<input type="checkbox"/>	O. Matherny
<input type="checkbox"/>	D. Hittle and Assoc.
<input type="checkbox"/>	
<input type="checkbox"/>	

SAFETY, COST, SCHEDULE, REQUIREMENTS IMPACT? No Yes (if yes, enter Change Request number)

APPROVALS:	DATE	OTHER APPROVALS (specify)	DATE
ORIGINATOR: W. Althouse <i>W. Althouse</i>	5/14/98		
TASK LEADER:			
GROUP LEADER:			
DCC RELEASE: <i>[Signature]</i>	5/18/98		



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E980094-00-W

DRWG NO. REV. GID

SHEET 1 OF 6

ASSY NO. E980031

PROJECT DRAWING LIST

TITLE

Beam Tube Bakeout Electrical Equipment Assemblies

APPROVALS:	DATE	REV	DCN NO	BY	CHK	DCC	DATE
DRAWN: W. Althouse	5/14/98						
CHECKED:							
APPROVED:							
DCC RELEASE: <i>[Signature]</i>	5/10/98						

DRWG NO. TITLE

Portable AC Power Assemblies

E980022-C	Specification for Electrical Contractor Services
E980031-C	Assembly Summary
D980097-A	Plan view - Bakeout Equipment Arrangement - Y2 Module
D980096-A	Plan view - Bakeout Equipment Arrangement - Y1 Module
D980094-A	Plan view - Bakeout Equipment Arrangement - X1 Module
D980095-A	Plan view - Bakeout Equipment Arrangement - X2 Module
D980098-A	Bakeout Equipment Details
E980030-A	Beam Tube Grounding During Bakeout - Assembly 'I'
E970193-B	Portable Power Cable - NEC Type W
E980006-A	Heater Relay Panel Assemblies
E980008-A	Portable Power Panelboard Assemblies
E980023-B	Specification for Electrical Panelboard Assembly 'A1'
D980047-D	Assembly 'A1' - 120/208 Volt 3 Phase Service
D980048-B	Riser Diagram - Assembly 'A1'
D980049-C	Bill of Materials - Assembly 'A1'
D980050-B	Subassembly 'A1-1' - Panel 'A1' (part of E980008)
D980051-B	Panel Schedule for Panel 'A1' (part of E980008)
D980052-B	Bill of Materials - Subassembly 'A1-1' (part of E980008)
E980024-A	Specification for Electrical Panelboard Assembly 'A2'
D980053-B	Assembly 'A2' - 120/208 Volt 3 Phase Service
D980055-C	Bill of Materials - Assembly 'A2'
D980056-C	Subassembly 'A2-1' - Panel 'A2' (part of E980008)
D980057-C	Panel Schedule for Panel 'A2' (part of E980008)
D980058-C	Bill of Materials - Subassembly 'A2-1' (part of E980008)
E980025-B	Specification for Electrical Panelboard Assembly 'A3'
D980059-D	Assembly 'A3' - 120/208 Volt 3 Phase Service
D980060-B	Riser Diagram - Assembly 'A3'
D980061-C	Bill of Materials - Assembly 'A3'
D980062-B	Subassembly 'A3-1' - Panel 'A3' (part of E980008)
D980063-B	Panel Schedule for Panel 'A3' (part of E980008)
D980064-B	Bill of Materials - Subassembly 'A3-1' (part of E980008)



PROJECT DRAWING LIST

TITLE

Beam Tube Bakeout Electrical Equipment Assemblies

DRWG NO.

TITLE

DC Power Supply and Tube Connection Assemblies

E980026-B	Specification for DC Power Supply Assembly 'B2'
D980079-B	Portable DC Power Supply with 277/480 V, 3 ϕ Metered Service
D980087-C	Riser diagram - Assembly 'B2'
D980088-B	Panel 'B2' Metering cabinet
D980089-C	Bill of Materials - Assembly 'B2'
D980090-A	Subassembly B2-1 Schematic Diagram (part of E980008)
D980080-B	DC Shunt Cabinet - Assembly 'G'
D980081-B	DC Shunt Cabinet - Splice Plate Item #212
D980101-A	DC Shunt Cabinet - Splice Plate Item #213
D980082-B	DC Shunt Cabinet - Splice Plate Item #214
D980054-B	Bill of materials - Assembly 'G'
D980066-B	120/240 V, 50 A Weatherproof Power Cord Set Assembly 'C1'
D980065-B	Bill of Materials - Assembly 'C1'
D980067-B	Bill of Materials - Misc. Cord Sets and Adapters 'C2-C12'
E980027-A	Specification for 15 kV Transition Box Assembly 'E'
D980072-A	15 kV Transition Box - Assembly 'E'
D980073-A	Bill of Materials - Assembly 'E'
E980028-A	Specification for Beam Tube DC Connections Assembly 'D'
D980077-B	Tube Bakeout DC Tube Connection (Assembly 'D')
D980078-A	Bill of Materials - Assembly 'D'
D980068-A	Tube Bakeout DC Connector - Subassembly 'D-1'
D980069-A	Tube Bakeout DC Connection Ring Extension - 306T
D980070-A	Tube Bakeout DC Connection Ring Extension - 306B
D980071-A	Bill of Materials - Subassembly 'D-1'
D980083-A	Tube Bakeout DC Connection Box (Subassembly 'D-2')
D980084-A	Splice plate
D980085-A	Bill of Materials



PROJECT DRAWING LIST

TITLE

Beam Tube Bakeout Electrical Equipment Assemblies

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Heater Blanket Relay Panel Assemblies

E980029-B	Heater Blanket Relay Panel Installation - Assembly 'H'
D980021-B	Heating Blanket Relay Panel Box 'H1' Ass'y (part of E980006)
D980022-B	Assembly 'H1' Connection Diagram (part of E980006)
D980023-B	Assembly 'H1' Schematic Diagram (part of E980006)
D980038-A	Bill of Materials - Assembly 'H1' (part of E980006)
D980024-A	Heating Blanket Relay Panel Assembly 'H2'
D980039-A	Bill of Materials - Assembly 'H2'
D980025-A	Subass'y 'H2-1' Heating Blanket Panel 'H2' (part of E980006)
D980026-B	Subass'y 'H2-1' Connection Diagram (part of E980006)
D980027-B	Subass'y 'H2-1' Schematic Diagram (part of E980006)
D980091-A	Controller Display & Equip. Connector Details (part of E980006)
D980040-A	Bill of Materials - Subass'y 'H2-1' (part of E980006)
D980028-A	Heating Blanket Relay Panel Assembly 'H3'
D980041-A	Bill of Materials - Assembly 'H3'
D980029-A	Subass'y 'H3-1' Heating Blanket Panel 'H2' (part of E980006)
D980030-B	Subass'y 'H3-1' Connection Diagram (part of E980006)
D980031-B	Subass'y 'H3-1' Schematic Diagram (part of E980006)
D980091-A	Controller Display & Equip. Connector Details (part of E980006)
D980042-A	Bill of Materials - Subass'y 'H3-1' (part of E980006)
D980032-A	Heating Blanket Relay Panel Assembly 'H4'
D980043-A	Bill of Materials - Assembly 'H4'
D980033-A	Subass'y 'H4-1' Heating Blanket Panel 'H2' (part of E980006)
D980034-B	Subass'y 'H4-1' Connection Diagram (part of E980006)
D980035-B	Subass'y 'H4-1' Schematic Diagram (part of E980006)
D980091-A	Controller Display & Equip. Connector Details (part of E980006)
D980044-A	Bill of Materials - Subass'y 'H4-1' (part of E980006)
D980036-A	Heating Blanket Cord Set Assembly 'HC' (part of E980006)
D980045-A	Bill of Materials - Assembly 'HC' (part of E980006)
D980099-A	Heating Blanket-Junction Box Cord Set 'HC1' (part of E980006)
D980100-A	Bill of Materials - Assembly 'HC1' (part of E980006)
D980037-A	6-Way Junction Box Assembly 'HJ1' (part of E980006)
D980046-A	Bill of Materials - Assembly 'HJ1' (part of E980006)
D980092-A	2-Way Junction Box Assembly 'HJ2' (part of E980006)
D980093-A	Bill of Materials - Assembly 'HJ2' (part of E980006)



PROJECT DRAWING LIST

TITLE

Beam Tube Bakeout Electrical Equipment Assemblies

DRWG NO. TITLE

Drawings and specifications listed in numerical order:

D980021-B	Heating Blanket Relay Panel Box 'H1' Ass'y (part of E980006)
D980022-B	Assembly 'H1' Connection Diagram (part of E980006)
D980023-B	Assembly 'H1' Schematic Diagram (part of E980006)
D980024-A	Heating Blanket Relay Panel Assembly 'H2'
D980025-A	Subass'y 'H2-1' Heating Blanket Panel 'H2' (part of E980006)
D980026-B	Subass'y 'H2-1' Connection Diagram (part of E980006)
D980027-B	Subass'y 'H2-1' Schematic Diagram (part of E980006)
D980028-A	Heating Blanket Relay Panel Assembly 'H3'
D980029-A	Subass'y 'H3-1' Heating Blanket Panel 'H2' (part of E980006)
D980030-B	Subass'y 'H3-1' Connection Diagram (part of E980006)
D980031-B	Subass'y 'H3-1' Schematic Diagram (part of E980006)
D980032-A	Heating Blanket Relay Panel Assembly 'H4'
D980033-A	Subass'y 'H4-1' Heating Blanket Panel 'H2' (part of E980006)
D980034-B	Subass'y 'H4-1' Connection Diagram (part of E980006)
D980035-B	Subass'y 'H4-1' Schematic Diagram (part of E980006)
D980036-A	Heating Blanket Cord Set Assembly 'HC' (part of E980006)
D980037-A	6-Way Junction Box Assembly 'HJ1' (part of E980006)
D980038-A	Bill of Materials - Assembly 'H1' (part of E980006)
D980039-A	Bill of Materials - Assembly 'H2'
D980040-A	Bill of Materials - Subass'y 'H2-1' (part of E980006)
D980041-A	Bill of Materials - Assembly 'H3'
D980042-A	Bill of Materials - Subass'y 'H3-1' (part of E980006)
D980043-A	Bill of Materials - Assembly 'H4'
D980044-A	Bill of Materials - Subass'y 'H4-1' (part of E980006)
D980045-A	Bill of Materials - Assembly 'HC' (part of E980006)
D980046-A	Bill of Materials - Assembly 'HJ1' (part of E980006)
D980047-D	Assembly 'A1' - 120/208 Volt 3 Phase Service
D980048-B	Riser Diagram - Assembly 'A1'
D980049-C	Bill of Materials - Assembly 'A1'
D980050-B	Subassembly 'A1-1' - Panel 'A1' (part of E980008)
D980051-B	Panel Schedule for Panel 'A1' (part of E980008)
D980052-B	Bill of Materials - Subassembly 'A1-1' (part of E980008)
D980053-B	Assembly 'A2' - 120/208 Volt 3 Phase Service
D980054-B	Bill of materials - Assembly 'G'
D980055-C	Bill of Materials - Assembly 'A2'
D980056-C	Subassembly 'A2-1' - Panel 'A2' (part of E980008)
D980057-C	Panel Schedule for Panel 'A2' (part of E980008)
D980058-C	Bill of Materials - Subassembly 'A2-1' (part of E980008)
D980059-D	Assembly 'A3' - 120/208 Volt 3 Phase Service
D980060-B	Riser Diagram - Assembly 'A3'



PROJECT DRAWING LIST

TITLE

Beam Tube Bakeout Electrical Equipment Assemblies

DRWG NO.

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Drawings and specifications listed in numerical order (continued):

D980061-C	Bill of Materials - Assembly 'A3'
D980062-B	Subassembly 'A3-1' - Panel 'A3' (part of E980008)
D980063-B	Panel Schedule for Panel 'A3' (part of E980008)
D980064-B	Bill of Materials - Subassembly 'A3-1' (part of E980008)
D980065-B	Bill of Materials - Assembly 'C1'
D980066-B	120/240 V, 50 A Weatherproof Power Cord Set Assembly 'C1'
D980067-B	Bill of Materials - Misc. Cord Sets and Adapters 'C2-C12'
D980068-A	Tube Bakeout DC Connector - Subassembly 'D-1'
D980069-A	Tube Bakeout DC Connection Ring Extension - 306T
D980070-A	Tube Bakeout DC Connection Ring Extension - 306B
D980071-A	Bill of Materials - Subassembly 'D-1'
D980072-A	15 kV Transition Box - Assembly 'E'
D980073-A	Bill of Materials - Assembly 'E'
D980077-B	Tube Bakeout DC Tube Connection (Assembly 'D')
D980078-A	Bill of Materials - Assembly 'D'
D980079-B	Portable DC Power Supply with 277/480 V, 3 ϕ Metered Service
D980080-B	DC Shunt Cabinet - Assembly 'G'
D980081-B	DC Shunt Cabinet - Splice Plate Item #212
D980082-B	DC Shunt Cabinet - Splice Plate Item #214
D980083-A	Tube Bakeout DC Connection Box (Subassembly 'D-2')
D980084-A	Splice plate
D980085-A	Bill of Materials
D980087-C	Riser diagram - Assembly 'B2'
D980088-B	Panel 'B2' Metering cabinet
D980089-C	Bill of Materials - Assembly 'B2'
D980090-A	Subassembly B2-1 Schematic Diagram (part of E980008)
D980091-A	Controller Display & Equip. Connector Details (part of E980006)
D980092-A	2-Way Junction Box Assembly 'HJ2' (part of E980006)
D980093-A	Bill of Materials - Assembly 'HJ2' (part of E980006)
D980094-A	Plan view - Bakeout Equipment Arrangement - X1 Module
D980095-A	Plan view - Bakeout Equipment Arrangement - X2 Module
D980096-A	Plan view - Bakeout Equipment Arrangement - Y1 Module
D980097-A	Plan view - Bakeout Equipment Arrangement - Y2 Module
D980098-A	Bakeout Equipment Details
D980099-A	Heating Blanket-Junction Box Cord Set 'HC1' (part of E980006)
D980100-A	Bill of Materials - Assembly 'HC1' (part of E980006)
D980101-A	DC Shunt Cabinet - Splice Plate Item #213



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E980094-00-W

DRWG NO. REV. GID

PROJECT DRAWING LIST

SHEET 6 OF 6
CONTINUATION SHEET

TITLE

Beam Tube Bakeout Electrical Equipment Assemblies

DRWG NO.

TITLE

Drawings and specifications listed in numerical order (continued):

E970193-B	Portable Power Cable - NEC Type W
E980006-A	Heater Relay Panel Assemblies
E980008-A	Portable Power Panelboard Assemblies
E980022-C	Specification for Electrical Contractor Services
E980023-B	Specification for Electrical Panelboard Assembly 'A1'
E980024-A	Specification for Electrical Panelboard Assembly 'A2'
E980025-B	Specification for Electrical Panelboard Assembly 'A3'
E980026-B	Specification for DC Power Supply Assembly 'B2'
E980027-A	Specification for 15 kV Transition Box Assembly 'E'
E980028-A	Specification for Beam Tube DC Connections Assembly 'D'
E980029-B	Heater Blanket Relay Panel Installation - Assembly 'H'
E980030-A	Beam Tube Grounding During Bakeout - Assembly 'I'
E980031-C	Assembly Summary