

**VOLUME V**  
**TABLE OF CONTENTS**  
**BOOK 1 MECHANICAL**

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<i><b>TITLE</b></i>	<i><b>DRAWING SIZE</b></i>	<i><b>DOCUMENT NUMBER</b></i>	<i><b>REV.</b></i>
<b>P&amp;ID's</b>	D		
Legend	D	V049-0-001	1
Beam Splitter Chamber All But Corner Vertex Arms	D	V049-0-002	1
Beam Splitter Chamber Corner Vertex Arms	D	V049-0-003	1
Horizontal Access Module	D	V049-0-004	1
112cm & 122cm Gate Valves	D	V049-0-005	1
80K Cryopump	D	V049-0-006	1
P&ID WA Left End Station	D	V049-0-010	1
P&ID WA Left Mid Station	D	V049-0-011	1
Left Beam Manifold	D	V049-0-012	1
Vertex Section	D	V049-0-013	1
Diagonal Section	D	V049-0-014	1
Right Beam Manifold	D	V049-0-015	1
P&ID WA Right Mid Station	D	V049-0-016	1
P&ID WA Right End Station	D	V049-0-017	1
Corner Station Mechanical Room	D	V049-0-018	1
P&ID LA Left End Station	D	V049-0-020	1
P&ID LA L. & R. Mid Joints	D	V049-0-021	1
P&ID LA Left Beam Manifold	D	V049-0-022	1
P&ID LA Vertex Section	D	V049-0-023	1
P&ID LA Right Beam Manifold	D	V049-0-024	1
P&ID LA Right End Station	D	V049-0-025	1
P&ID LA Corner Station Mechanical Room	D	V049-0-026	1
P&ID Washing Station	D	V049-0-031	0*
<b>ELECTRICAL DRAWINGS</b>			
Equip. Power Requirements	D	V049-1-047	0

\* = Drawing Added Since May 3, 1996

## VOLUME V BOOK 2 ELECTRICAL

<i>TITLE</i>	<i>DRAWING SIZE</i>	<i>DOCUMENT NUMBER</i>	<i>REV.</i>
<b>ELECTRICAL DRAWINGS</b>			
<b>PLANS &amp; ELEVATIONS</b>			
General Notes, Legend & Drawing List	D	V049-3-001	0*
Overall Site Plan: Washington	D	V049-3-002	0
PNL-200, 300, 400, 500, 700, 800 Assembly	D	V049-3-004	0
Electrical Installation Details	D	V049-3-006	0
Electrical Installation Details (Deleted)	D	V049-3-007*	0
Instrument Plan Vertex Section (Deleted)	D	V049-3-008*	0
Instrument Plan Vertex Section	D	V049-3-101	0
Instrument Plan Left Beam Manifold	D	V049-3-102	0
Instrument Plan Right Beam Manifold	D	V049-3-103	0
Instrument Plan Diagonal Section	D	V049-3-104	0
Cable Tray Plan Vertex Section	D	V049-3-106	0
Cable Tray Plan Left Beam Manifold	D	V049-3-107	0
Cable Tray Plan Right Beam Manifold	D	V049-3-108	0
Cable Tray Plan Diagonal Beam Manifold	D	V049-3-109	0
Instrument Electrical Plan Vertex Section	D	V049-3-111	0
Instrument Electrical Plan Left Beam Manifold	D	V049-3-112	0
Instrument Electrical Plan Right Beam Manifold	D	V049-3-113	0
Instrument Electrical Plan Diagonal Section	D	V049-3-114	0
Power Plan Vertex Section	D	V049-3-116	0
Power Plan Left Beam Manifold	D	V049-3-117	0
Power Plan Right Beam Manifold	D	V049-3-118	0
Power Plan Diagonal Section	D	V049-3-119	0
PNL-100A & 100B Assembly	D	V049-3-121	0
PNL-100A & 100B Wiring	D	V049-3-122	0
CDS Interface	D	V049-3-123	0
Stub-Up Plan Corner Station	D	V049-3-124	0
Vacuum Carts Interface	D	V049-3-125	0
Data Highway Vertex	D	V049-3-127	0
Data Highway Left Beam	D	V049-3-128	0
Data Highway Right Beam	D	V049-3-129	0
Data Highway Diagonal	D	V049-3-130	0
Data Highway Interconnection	D	V049-3-131	0
Instrument Plan Left Mid Station	D	V049-3-201	0
Cable Tray Plan Left Mid Station	D	V049-3-202	0
Instrument Electrical Plan Left Mid Station	D	V049-3-203	0
Power Plan Left Mid Station	D	V049-3-204	0
Stub-Up Plan Left Mid Station	D	V049-3-205	0
Vac. Cart Interface	D	V049-3-206	0
PNL-200 Wiring Diagram	D	V049-3-207	0
CDS Interface Left Mid	D	V049-3-208	0
Instrument Plan Right Mid Station	D	V049-3-301	0

\* = Drawings Added or Deleted Since May 3, 1996

## VOLUME V BOOK 2 ELECTRICAL (Cont.)

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<i>TITLE</i>	<i>DRAWING SIZE</i>	<i>DOCUMENT NUMBER</i>	<i>REV.</i>
<b>ELECTRICAL DRAWINGS</b>			
Cable Tray Plan Left Mid Station	D	V049-3-302	0
Instrument Electrical Plan Left Mid Station	D	V049-3-303	0
Power Plan Left Mid Station	D	V049-3-304	0
Stub-Up Plan Left Mid Station	D	V049-3-305	0
Vac Carts Interface Right Mid Station	D	V049-3-306*	0
PNL-300 Wiring Diagram	D	V049-3-307	0
CDS Interface Right Mid Station	D	V049-3-308*	0
Instrument Plan Left End Station	D	V049-3-401	0
Cable Tray Plan Left End Station	D	V049-3-402	0
Instrument Electrical Plan Left End Station	D	V049-3-403	0
Power Plan Left End Station	D	V049-3-404	0
Stub-Up Plan Left End Station	D	V049-3-405	0
VAC Cart Interface Left End	D	V049-3-406	0
PNL-400 Wiring Diagram	D	V049-3-407	0
CDS Interface Left End	D	V049-3-408	0
Instrument Plan Right End Station	D	V049-3-501	0
Cable Tray Plan Right End Station	D	V049-3-502	0
Instrument Electrical Plan Right End Station	D	V049-3-503	0
Power Plan Right End Station	D	V049-3-504	0
Stub-Up Plan Right End Station	D	V049-3-505	0
VAC Cart Inter. Right End	D	V049-3-506	0
PNL-500 Wiring Diagram	D	V049-3-507	0
CDS Interface Right End	D	V049-3-508	0

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## VOLUME V BOOK 1 MECHANICAL (Cont.)

<i><b>TITLE</b></i>	<i><b>DRAWING SIZE</b></i>	<i><b>DOCUMENT NUMBER</b></i>	<i><b>REV.</b></i>
<b>MECHANICAL DRAWINGS</b>			
Beam Splitter Chamber (BSC) (5 Sheets)	D	V049-4-001	0
Horizontal Access Module (HAM) (5 Sheets)	D	V049-4-002	0
80K Cryopump, Long (5 Sheets)	D	V049-4-004	0
80K Cryopump, Short (5 Sheets)	D	V049-4-005	0
Roughing Pump Cart Arrangements	D	V049-4-010	0
Turbo Pump Cart Arrangements	D	V049-4-011	0
Base Extension - Turbo Pump Cart	D	V049-4-012	0
Cover, BSC Type I	D	V049-4-014	0
60 1/2" I.D. BSC Flange Detail (Grooved)	C	V049-4-017	0*
44 5/8" I.D. Flange Detail (Grooved)	C	V049-4-019	0
48 1/4 I.D. Flange Detail (Grooved)	C	V049-4-018	0*
72 1/4" I.D. Flange Detail (Grooved)	C	V049-4-020	0*
84 1/4" I.D. Flange Detail (Grooved)	C	V049-4-021	0*
104 1/2" I.D. Flange Detail (Grooved)	C	V049-4-022	0
BSC Support Assy.	D	V049-4-023	0
BSC Annulus Piping	D	V049-4-025	0
72 1/4" I.D. Flange Detail (Flat Faced)	C	V049-4-028	0*
48 1/4" I.D. Flange Detail (Flat Faced)	C	V049-4-029	0*
60 1/2" I.D. HAM Flange Detail (Grooved)	C	V049-4-031	0*
60 1/2" I.D. Flange Detail (Flat Faced)	C	V049-4-032	0
44" Gate Valve Support Frame	D	V049-4-033	0
48" Gate Valve Support Frame	D	V049-4-034	0
BSC Internal Platform Details	D	V049-4-036	0
HAM Tie Rod Assembly	D	V049-4-040	0
104 1/2" I.D. Flange Detail (Flat Faced)	C	V049-4-041	0*
Pipe Bridge - Corner Station	D	V049-4-043	0
BSC RGA/Aux. Turbo Conn. Assembly	C	V049-4-045	0
44 5/8" ID x 72.25 Std. Flange Detail (Flat Faced)	C	V049-4-047	0
Vessel Support (HAM)	D	V049-4-052	0
Expansion Joint (HAM)	C	V049-4-053	0
HAM Annulus Piping	D	V049-4-054	0
44 5/8" I.d. Flange Detail	C	V049-4-042	0*
60 1/2" I.D. Ring Detail	C	V049-4-055	0*
30 1/2" x 60 1/2" Flange Detail (Flat Faced)	C	V049-4-056	0
30 1/2" x 60 1/2" Flange Detail (Grooved)	C	V049-4-057	0
44 5/8" ID x 60 1/2" ID Flange Detail	C	V049-4-058	0
Shipping & Test Cover 60 1/2" ID Flange	D	V049-4-059	0
44 5/8" ID Flange Detail (Grooved/Slotted)	C	V049-4-060	0

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## VOLUME V BOOK 1 MECHANICAL (Cont.)

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<b>MECHANICAL DRAWINGS</b>			
60.5" ID x 72.25 OD Offset Flange (BE3A)	C	V049-4-066	0
48 1/4" ID x 60 1/2" ID Offset Flange	C	V049-4-068	0
PS-1 Pipe Support Tee Post (LN <sub>2</sub> Piping)	C	V049-4-072	0
PS-2 Pipe Support	C	V049-4-073	0
PS-3 Pipe Support Tee Post	C	V049-4-074	0*
PS-4 Pipe/Electrical Support	C	V049-4-075	0*
25 L/S Ion Pump/Manifolds	D	V049-4-077	0
75 L/S Ion Pump/Manifolds	D	V049-4-078	0
48 1/4" ID x 60 1/2" ID Figure Detail	D	V049-4-079	0

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**VOLUME V BOOK 2 MECHANICAL (Cont.)**

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<i><b>TITLE</b></i>	<i><b>DRAWING SIZE</b></i>	<i><b>DOCUMENT NUMBER</b></i>	<i><b>REV.</b></i>
<b>MECHANICAL DRAWINGS</b>			
Adapter A-1, 44.62" ID x 72.25 ID	D	V049-4-A1	0
Adapter A-3, 48.25" ID x 60.5 ID	D	V049-4-A3	0
60" HAM Cover, Grooved	D	V049-4-A4	0
Adapter A-6, 48.25" ID x 60.5 ID	D	V049-4-A6	0
Adapter A-7, 60.5" ID x 72.25 ID	D	V049-4-A7	0
BSC End Cover 60.5"	D	V049-4-A11	0
Adapter A-12, 48.25" ID x 60.5 ID	D	V049-4-A12	0
Adapter A-13, 60.5" ID x 72.25 ID	D	V049-4-A13	0
Adapter A-14, 44.62" ID x 60.5 ID	D	V049-4-A14	0
Adapter A-15, 48.25" ID x 60.5 ID	D	V049-4-A15	0
Spool B-1, 72.25 ID	D	V049-4-B1	0
Spool B-2A, 30.5 ID x 60.5 ID	D	V049-4-B2A	0
Spool B-2B, 30.5 ID x 60.5 ID	D	V049-4-B2B	0
Spool B-3A, 30.5 ID x 60.5 ID	D	V049-4-B3A	0
Spool B-4, 48.25" ID	D	V049-4-B4	0
Spool B-5A, 30.5 ID x 60.5 ID	D	V049-4-B5A	0
Spool B-6, 48.25" ID	D	V049-4-B6	0
Spool B-7, 48.25" ID	D	V049-4-B7	0
Spool B-8, 72.25" ID	D	V049-4-B8	0
Spool B-9, 72.25" ID	D	V049-4-B9	0
Spool BE-2, 60.5" ID	D	V049-4-BE2	0
Off Set Spool BE-3, 60.5" ID x 60.5 ID	D	V049-4-BE3	0
Off Set Spool BE-3A, 60.5" ID x 60.5 ID	D	V049-4-BE3A	0
Spool, BE-4, 44.62" ID	D	V049-4-BE4	0
Spool, BE-5, 72.25" ID	D	V049-4-BE5	0

**VOLUME V BOOK 2 MECHANICAL (Cont.)**

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<i><b>TITLE</b></i>	<i><b>DRAWING SIZE</b></i>	<i><b>DOCUMENT NUMBER</b></i>	<i><b>REV.</b></i>
<b>MECHANICAL DRAWINGS</b>			
Equipment Arr't. Plan, Corner Station WA Sht 1 of 2	D	V049-5-001	0
Equipment Arr't. Elevation, Sht 2 of 2	D	V049-5-001	0
Equipment Arr't ISO, Corner Station, WA	D	V049-5-002	0
Equipment Arr't Plan, Right Mid Station, WA	D	V049-5-004	0
Equipment Arr't Plan, Right End Station, WA	D	V049-5-005	0
Equipment Arr't Plan, Left Mid Station, WA	D	V049-5-006	0
Equipment Arr't Plan, Left End Station, WA	D	V049-5-007	0
Equipment Arr't ISO, Right Mid Station, WA	D	V049-5-010	0
Equipment Arr't ISO, Right End Station, WA	D	V049-5-011	0
Piping Arr't, Plan Corner Station/WA (4 Shts)	D	V049-5-012	0
Piping Arr't, Elevation, Corner Station/WA	D	V049-5-013	0
Piping Arr't, Sections, Corner Station/WA	D	V049-5-014	0
Piping Arr't, Plan, Right Mid Station/WA (4 Shts)	D	V049-5-017	0
Piping Arr't, Elevation, Right Mid Station/WA (2 Shts)	D	V049-5-018	0
Piping Arr't, Sections, Right Mid Station/WA	D	V049-5-019	0
Piping Arr't, Plan, Right End Station/WA (2 Shts)	D	V049-5-021	0
Piping Arr't, Elevation, Right End Station/WA	D	V049-5-022	0
Piping Arr't, Sections, Right End Station/WA	D	V049-5-023	0
Piping Arr't. Plan Left Mid Station/WA (4 Sheets)	D	V049-5-026	0
Piping Arr't Elevation Left Mid Station/WA (2 Sheets)	D	V049-5-027	0
Piping Arr't, Sections, Left Mid Station/WA	D	V049-5-028	0
Piping Arr't. Plan Left End Station/WA (2 Sheets)	D	V049-5-030	0
Piping Arr't Elevation Left End Station/WA	D	V049-5-031	0
Piping Arr't, Sections, Left End Station/WA	D	V049-5-032	0