

VOLUME II ATTACHMENTS

ATTACHMENT 4

2. VACUUM AND PROCESS CALCULATIONS

TITLE	DOCUMENT NO.	REVISION
I. Vacuum Calculations		
Pressure Drop in Vacuum Header	V049-1-006	2
Turbomolecular Pump Intermediate Pumpdown	V049-1-007	2
Flange Annulus Conductance	V049-1-012	1
Main TMP Port Conductance	V049-1-044	0
Station Pumpdown & Ultimate Pressure	V049-1-078	0
II. 80K Pumps		
80K Pumps - Heat Load Calculations	V049-1-033	2
80K Pumps - Heat Steady State LN ₂ Consumption	V049-1-037	1
80K Pumps - Roughdown Pressure Drop Analysis	V049-1-072	0
80K Pumps - Regeneration System Pressure Drop Analysis	V049-1-092	0
80K Pumps - Relief Valve Sizing	V049-1-094	1
80K Pumps - Regeneration System Process Calculations	V049-1-096	0
80K Pumps - Control Valve Sizing	V049-1-116	0
III. Bakeout System		
Bakeout System Heat Transfer Analysis	V049-1-065	0
Bakeout Control System Functionality	V049-1-086	0
IV. Utilities		
Cooling Water Requirements	V049-1-010	1
Cooling Water Line Sizing	V049-1-034	1
Instrument Air Requirements	V049-1-043	1
Equipment Power Requirements	V049-1-047	0
Instrument Air Line Sizing	V049-1-093	0