Isolation
Prior to Opening Gate Valve

**OTHER COMPONENTS**

**AFM Air Flow Vane Microswitch**

Henry G Dietz Co 103B SPDT (w/ gold connectors) X X interlock on

**GAS FLOW COMPONENTS**

<table>
<thead>
<tr>
<th>ID</th>
<th>Item</th>
<th>Vendor</th>
<th>Part Number</th>
<th>Ordered</th>
<th>Received</th>
<th>Shipping</th>
<th>Standby</th>
<th>Nominal Function</th>
<th>Interlocks</th>
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<tbody>
<tr>
<td>C1</td>
<td>Purge Collar for Insertion Rods</td>
<td>VT tightened</td>
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<tr>
<td>VM3</td>
<td>1/4” SS Needle Valve</td>
<td>Swagelok SS-3NBS6</td>
<td>XX</td>
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<tr>
<td>VM2</td>
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<td>V1377</td>
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<tr>
<td>V1320</td>
<td>IV Gate Valve</td>
<td>(exists) open closed closed--&gt; open</td>
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<tr>
<td>V08</td>
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<td>24VDC Coil</td>
<td>Asco 8262G220V</td>
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Charcoal Filter removes any PC vapor from calibration system before venting to Hall C attached and clear

C2 Collar for Tether VT tightened

Cross 6-way SS cross, conflat rotatable flanges, two sides have quartz windows with

CV2 Check Valve VT operational but closed

CV1 Check Valve Generant CV-500-5-V-.15 X X X operational but closed

Glove Box Acrylic and SS sides, viton? gloves, nominal 43”x43”x24” , provides ambient

Gas Box disconnect single signal disconnects all electrical connections to gas control box and

CR4 lights off (using red lights)

LAKN Low Krypton and Argon high purity nitrogen available

Hinge One rod has hinge at center, maximum angle of 90 degrees, spring tensioned. optional

G5 Pressure Transducers ThermX Wika E-10 (30inHG - 30PSI) X X matched to IV buffer level -interlock

G4 Pressure Transducers ThermX Wika E-10 (30inHG - 30PSI) X matched to IV buffer level

G3 Pressure Transducers ThermX Wika E-10 (0-100PSI) X X approx 4 bar (nominal)

OM Oxygen Monitor AMI 65 X X X less than 0.1% of normal O2 level

L14 2” flexible tube clear

L13 1/2” SS tube clear

L12 1/2” SS tube clear

L11 1/2” SS tube clear

L10 1/4” SS tube clear

L09 1/4” SS tube clear

L07 1/4” SS tube (& nylon) clear

L06 1/4” SS tube clear

L05 3/8” SS tube clear

L04 1/4” SS tube clear

L03 1/4” SS tube clear

L02 3/8” SS tube clear

L01 3/4” SS tube clear

Retraction Stop thick safety collar to prevent final rod from being pulled through C1 collar present

OB makeup pump provides flow to OV header tank to correct for volume changes in the SSS off off interlock

R3 Gas Regulator Swagelok KLF1CRA415E60000 XX X set output to 2 mbar

R2 Gas Regulator Swagelok KLF1CRA415E60000 XX X set output to match IV buffer level

R1 Gas Regulator Swagelok KLF1BCA415E60000 XX X set output to 0.5 bar

P2 Vacuum Pump 12VDC ADI B162-FP-HH0 X X X on

Rods 1 m long sections, neutrally buoyant (in PC or water), safety coupling first rod or else hinge

safety catch pan goes in bottom of cross, above IV gate valve removed

Safety Support chord used to support rods during coupling, runs through eye-bolt in the top of

Safety tether plug used to plug 1/4” hole should the tether actually break present in glovebox but not used

Slip Lock Delrin compression lock onto rod to limit insertion depth tightened

Strain Gauge used to weigh individual rods before and after insertion to check if any PC has

Sweeper used to ensure that there is nothing blocking V1320 before closing it clear swing confirmed

V1321 IV valve to header tank closed

V1421 IB valve to header tank closed

View Port Covers prevent light entering cross and then IV covered

*********************************Action*********************************

acrylic protective covers

N2 environment, has 3” clearance from ceiling of CR4
glove box

the GB top-hat

leaked into them

Trigger Action

Trigger Action

Trigger Action

Trigger Action

Trigger Action

disconnect disconnect disconnect connected
disabled
caps on

closed and at proper pressure; light

fully purged and running at about 2

on

on

on

on

as appropriate