Lithium Target Meeting Notes

Subject: LITHIUM TARGET
Date: 7/26/04
Attendees: BOB CLAUDE MOMO VINCE AL SUSHIL BRIAN

Action Items:

- AIR ACTUATORS ON EACH VALVE
- MS-6C
- MS-8C - 1 " VALVE
- HELICOFLEX FLANGES ?
- FLANGE TO MATCH
- TRANSFER POT ?
- SMALLER FLANGE ON RESERVOIR ?
- TARGET VESSEL HAS SMALL CONFLAT ON TOP TO LOAD LITHIUM
- PRESSURE VESSEL HAS NO TOP FLANGE - SAME TOP AND BOTTOM
- PROBE PORT TO MATCH EXISTING DESIGN
- ALUMINUM GASKETS OR O-RINGS KEEP BELOW 200C
- THERMOCOUPLES
- 1 AT NOZZLE
- 1 AT FLANGE
- 1 AT TOP
- TOP VALVE IS MANUAL BY NOZZLE 1/2
- 3 LITERS IS ONLY 30 SECOND EXPERIMENT ?
- 3 - 10 - 20 LITER ?
- G10 MATERIAL BETWEEN TABLE AND VESSEL TO AVOID HEAT SINK
- ANGLE IS STILL UNSET
- REMOVE ANGLE MOVEMENT PARTS AND ADD SPOOL PIECE TO START ?
- 10 DEG MOVEMENT TO START TO FIND PROPER RANGE
- FIXED DISK TO START
- CHANGE ANGLES
- MOVING INDEXED DISK
- INDEXING FLANGE
- MONDAY 9 MEETING

Bldg 362, Library 1:30 PM
Claude R., Sushil S., Vince N., MoMo, Bob H., Brian R., Al B.

1) Traversing Flange Assembly drawings presented to Brian. Assembly will be studied for use in present system.
2) Traversing Assembly will be removed from present assembly by Bob H. and presented to Brian and Al for further study.
3) High Pressure storage tank to be designed without CF or wire seal gaskets.
Vessel ends to be alike, with fittings for valves.
4) Li rods to be loaded through main vessel's top flange.
5) Aluminum gaskets can only be used when operated under 200 degree C.
6) Top inlet valve prior to the entrance of the nozzle to be a 1/2" manually operated valve.
Vince will purchase valve and provide ordering info to Brian R. for input into the schedule.
7) High pressure vessel will be studied to be able to increase it's volume from 3 liters to 20 liters.
8) G10 to be utilized for insulating all vessels from the support structure.
9) The Nozzle tube angle of incidence will be studied to include adjusting the angle without
compromising the integrity of the Li.
10) The main vessel will be studied to increase the top flange, vessel diameter and lowering of the top
flange to try and achieve items 4, 7 and 9.

Next meeting to be Monday, 080204, Bldg. 362, 9:00.