

# Memo

*date: Feb 13, 2008*

*to: Distribution*

*from: J. Maraviglia*

*subject: Safety Walk - Target Change-Out at C20 Polarimeter*

On February 13, 2008 a Safety Walk was performed whereby work was observed in the AGS tunnel. The work involved a target change-out at the C20 polarimeter. Personnel performing the work were members of the C-AD Vacuum Group, Instrumentation & Beam Components Group and Accelerator Physics Group. Personnel included: H. Huang, A. Ravenhall, P. O'Grady, plus others.

## Positive Observations:

- Work planning was performed
- Personnel involved with the work were briefed and signed onto the Work Permit; a walkdown was completed
- Lockout/Tagout Procedure for Personnel Entry into the AGS was in place
- Personnel were well aware of difference between low voltage signal cable and high voltage cable to detectors
- High voltage on detectors clearly labeled
- Personnel training was current
- AGS tunnel was under Controlled Access Mode; Operator at gate controlled access well
- Caution tape used to limit access to immediate area at C20
- No unnecessary personnel in the area
- Maintained safe distances from energized ion pumps in tunnel
- Caution Tags in place for plugs powering portable lamp and fan to prevent inadvertent unplugging
- Local electrical plug to target assembly motor available; easily unplugged to render safe while working on assembly; eliminated motion hazard from motor
- Workers demonstrated knowledge of the vacuum system and target assembly
- Radioactive material in area clearly tagged
- General-area radiation levels in the area are low
- Personnel wearing proper dosimetry: TLD, SRD
- RWP in place; personnel signed in & out
- Personnel carried flashlight into tunnel in case of lighting/power failure

Brief description of work:

- C20 isolated: upstream and downstream box valves close, C14 and D3 sector valves closed.
- Flange removed for access to target assembly internals.
- New targets installed.
- Target assembly flange re-installed.
- Polarimeter pumped-down with portable turbo pump to restore vacuum, followed by leak check.
- System restored: turbo pump removed, box valves opened, sector valves C14 and D3 opened. Further pump-down in progress with ion pumps.

Negative Observations:

- There were no negative observations for this task.

Distribution:

S. Gill

D. Lehn

E. Lessard

R. Karol

D. Lowenstein