

## Memorandum

December 18, 2008

**To:** Piermaria Oddone  
**From:** Roger Dixon  
**Subject:** FY2009 Accelerator Division ES&H Plan

In response to Bill Griffing's November 25, 2008 memo requesting an FY2009 ES&H Plan, as in previous years I met with my senior staff and safety officer to discuss the Accelerator Division actions. Our FY09 ES&H Plan will consist of the following seven actions, with the first three being a continuation from our FY08 plan. A summary of each plan action follows:

- (1) *Technical Group Meetings* – The plan is to continue technical group meetings between myself and with the line workers within the division. The meetings are held once per month at lunch time with no person higher than the working supervisor included. The focus of the meetings is to gain a grass roots understanding of the safety issues facing the line workers. Meeting minutes are taken by the AD SSO. The meeting minutes will be published on the ESH Department website with the disposition of each item identified from the meeting.
- (2) *R&R Fund Safety Suggestion Awards* – The program established last year establishing a cash reward for safety suggestions that have an impact on the division will be continued. Under the program suggestions are submitted to the ESH Department for consideration. Each safety suggestion received will be evaluated for its impact on safety within the division, as well as the involvement of the employee making the suggestion in working to implement the suggestion. For the suggestions judged to be of the greatest benefit, an award commensurate with the safety impact and efforts made will be issued to the employee.
- (3) *Bimonthly ESH Newsletter* – The monthly ESH newsletter established last year will be reduced to bimonthly. Again this year the newsletter will focus on safety at home topics. The bimonthly single-topic newsletter will continue to be an electronic ESH communication to division employees. The e-mail announcing the newsletter will contain additional information as necessary to apprise division employees of ESH related issues.
- (4) *Federal Electronics Challenge (FEC)* - AD will continue to participate in FEC activities. Executive Order 13423 now requires the lab to make 95% of its purchases of monitors, laptops, and desktop computers from among those that the U.S. Environmental Protection Agency has rated as environmentally friendly and energy efficient under its EPEAT program. AD adopted this goal approximately two months into FY 2008. Preliminary analysis of purchase records for computers and laptops indicates that we achieved about 89% compliance. Data for monitor purchases are not available. AD plans to review the purchases of computers and laptops that were not EPEAT-rated to understand the reasons why EPEAT-rated equipment was not chosen and help ensure that we can fully meet the goal in FY 2009.
- (5) *PCB Phaseout* - The Linac quadrupole power supplies represent the largest component of the inventory of PCB capacitors remaining in use on the site. Each supply originally had twelve capacitors of one type and a thirteenth capacitor of a different type. The odd capacitor in each supply was replaced with a non-PCB model in 2008. In 2009, AD will replace the set of twelve caps in four supplies with PCB-free equivalents.

- (6) *MINOS Dehumidification Project* - AD has established an environmental management program (EMP) under the Environmental Management System for reducing the amount of accelerator-produced tritium migrating to the MINOS sump and being subsequently released to surface water. Two new desiccant dehumidifiers will be installed to dry the air that flows from the absorber area to the decay pipe passageway. Two new compressor dehumidifiers will condense water vapor from the air that drives the regeneration loop of the desiccant dehumidifiers. A wall will be built to block other air migrating from the absorber area to the decay pipe passageway to maximize the fraction of the air that gets dehumidified. A new holding tank will collect the dehumidifier condensate containing the tritium. The tritiated water will be pumped through a hose up the decay pipe passage-way to the existing tritiated water condensate holding tank in the NuMI target hall. This water will then be processed by either the existing evaporator in MI-65 or a second one that will be installed to provide additional/backup capacity. These measures, planned for completion by August 2009, are expected to reduce the quantity of tritium reaching the sump by approximately 40%.
- (7) *Oil Pollution Prevention* - Revised EPA rules on oil pollution prevention now require Fermilab to include many more oil sources under its Spill Prevention, Control & Countermeasures (SPCC) Plan than it did in the past. The Environmental Protection Subcommittee is responsible for establishing the overall SPCC Plan. AD is responsible for implementing the plan with respect to its oil-containing equipment. The Environmental Officer will establish and maintain an inventory for quantities of oil 55 gallons or greater. AD will also provide Oil Handling training for required AD employees, establish and maintain integrity surveys, and any other tasks mandated by the SPCC Plan. The Lab's goal is to have the plan in place by June 30, 2009.

Cc Nancy Grossman  
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AD Associate and Department Heads