

# memorandum

DATE: January 24, 2006

REPLY TO  
ATTN OF: SC-25

SUBJECT: Request to Conduct a Review of the Tevatron Operations

TO: Mr. Daniel Lehman, Director, Office of Project Assessment, SC-1.3

The High Energy Physics program supports the Tevatron program at Fermi National Accelerator Laboratory (FNAL), carrying out a world-class research program at the energy frontier. The Tevatron program includes the operation and performance improvement of the Tevatron accelerator complex and the operation of both the collider detectors and the neutrino experiments.

This memorandum is to request that you organize and conduct a review of the Tevatron Operations on March 21-22, 2006 at Fermilab. The purpose of this review is to evaluate the past performance, and the resource requirements and management practices needed to effectively support its research missions for FY 2006 – FY 2009.

In FY 2005 the Tevatron exceeded the design goal for integrated luminosity and electron cooling was successfully commissioned with all performance specifications having been met except for maximum antiproton intensity. This should allow the committee to concentrate on the following specific areas:

1. Evaluate the technical scope, new operating procedures, and program of machine studies planned to increase the **antiproton production**.
2. Evaluate the technical scope, new operating procedures, and program of machine studies planned to allow **high intensity running in the Tevatron** needed to meet the goals of Run II.
3. Assess whether the lab has identified and allocated the appropriate **resources needed** to complete Run II luminosity improvement plan.
4. Assess the laboratory's **responses to the comments and recommendations** from the March 2005 Tevatron Operations review.

Michael Procaro is the program manager for Fermilab in this office and will serve as the OHEP contact person for the review.

We appreciate your assistance in this matter. As you know, these reviews play an important role in our program. I look forward to receiving your Committee's formal report within 60 days of the review.

A handwritten signature in black ink, appearing to read "Robin Staffin". The signature is fluid and cursive, with the first name "Robin" written in a larger, more prominent script than the last name "Staffin".

Robin Staffin  
Associate Director  
Office of High Energy Physics

cc:

R. Orbach, SC-1  
J. Decker, SC-2  
M. Procario, SC-25  
A. Byon-Wagner, SC-25  
P. Oddone, Fermilab  
J. Livengood, FSO