TO: JA/Director, Center Operations
FROM: DA/Director, Mission Operations
SUBJECT: Mission Control Center (MCC) Historical Control Room

In order to expedite the pending decision on what areas in Building 30M will be considered national historical landmarks, we are providing you with our plans for the areas that are under consideration. The historical preservation is based on the Apollo Era; therefore, we feel that the flight control room where most lunar missions were controlled should be the exhibit area for visitors. This room is called Flight Control Room 2 (FCR-2) and is located on the third floor. We will call it Mission Operations Control Room (MOCR), the name used in Apollo. The Flight Control Room 1 (FCR-1), on the second floor, is in our planning for operational use this fall. The Mission Operations Directorate (MOD) will work the funding for the project with the Center. Our plans for these two rooms are outlined below.

FCR-1 - This room will be used to support the International Space Station (ISS) and Shuttle simulations and operations as a scheduled resource within the MCC.

The following work will be done so as to allow new equipment installation in the December 1996 timeframe:

1. We will first remove all of the consoles and associated equipment from the room.
2. Remove/store items of historical importance.
3. All unused wiring will be removed.
4. An underfloor grounding grid will be installed.
5. The Center Operations Directorate (COD) will make modifications to flatten the tiered floor, remove a water fountain, remove pneumatic tube stations, recarpeting and painting.
6. We will install new consoles and associated equipment.

FCR-2/MOCR - The FCR-2/MOCR will be modified to provide visitors with a realistic sense of what the control room resembled in operation during the Apollo Era timeframe. The visitors elevator will be modified to provide tourist access to the third level of Building 30M.
COD will make the following elevator modifications:

1. Add a new controller to the elevator to allow third floor access.
2. Add a new elevator door at the third level.
3. Cut an opening through the PEAF panel at this level and construct a walkway into the viewing room similar to the existing entrance to the second floor.

MOD will make the following FCR 2 modifications: (The intent is to look fairly realistic as an Apollo Era MOCR, but with cost constraints).

1. Provide power to the consoles and illuminate displays, providing a sense them being operational. On the consoles provide:
   a. Cathode-Ray tube (CRT) with black and white video of digital displays tabular, etc., type displays as were used in Apollo.
   b. Look-alike event panels with power to light up the panels, multi-color events, and some flashing.
   c. Look-alike comm panels with some push button indicators flashing.

2. Activate the Group Displays (front screens) to show video of Apollo missions and an earth-lunar ground track.
   a. 10 x 10 screen
      - Video of lunar launches, lunar surface activities, etc.
   b. 10 x 20 screen
      - Earth/Lunar ground track
      - Lunar Orbit
      - Etc.

3. Activate the countdown clocks in the front display.
   a. Front Screen Clocks
      - Mission Elapse Time, Greenwich Mean Time (1969, 1970), Timers, etc.

4. Install items of historical importance from other areas.

cc:
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