



California
Department of
Health Services

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State of California—Health and Human Services Agency
Department of Health Services



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June 13, 2007

Mr. Phil Rutherford
The Boeing Company
5800 Woolsey Canyon Road
Canoga Park, CA 91304-1148

Subject: Letter "Request to Perform Confirmatory Surveys of Building 4024 Stack, Lead shot and Facility Penetrations, Santa Susana Field Laboratory (SSFL)." Dated September 9, 2005

Dear Mr. Rutherford:

In response to your letter dated September 9, 2005, with attachments, the Department has reviewed the survey data referenced in the above subject document and conducted a confirmatory survey, on September 6-7, 2006, of the Building 4024 Stack, Lead shot and Facility Penetrations.

The Boeing supplied data included smear and direct frisk survey results of the Building 4024 Stack, Lead shot and Facility Penetrations. Boeing's survey results showed: No detectable beta or gamma activity from direct scans, less than 20 dpm/100cm² of removable alpha activity and less than 100 dpm/100cm² of removable beta/gamma activity. The Department's survey confirms the survey results reported by Boeing and it indicates that the Building 4024 Stack and Lead shot are at background radiation levels.

The Department's survey of the facility wall penetrations can only reflect the status of the ends of the wall penetrations nearest the mezzanine area of Building 4024 due to access and safety concerns with the test cell ends of the wall penetrations. Boeing's survey results showed: No detectable beta or gamma activity from direct scans, less than 20 dpm/100cm² of removable alpha activity and less than 100 dpm/100cm² of removable beta/gamma activity. The Department's survey of the mezzanine end of the wall penetrations confirms the survey results reported by Boeing. The test cell end of the penetration may have elevated count rates due to activation of the test cell interior surface materials. This is evidenced by the elevated count rates found on the small end of the wall penetration plugs during the Department's survey.

The wall penetration plugs were removed from the Building 4024 Mezzanine level and placed on pallets outside of the Building 4024 High Bay. Survey data supplied by Boeing for the wall penetration plugs indicated no detectable activity for the beta/gamma direct frisk. The Department's survey found elevated gamma levels on the small ends of the plugs. Hence, it is determined that the plugs are not ready for release to unrestricted use at this time.

In addition to the survey of the Building 4024 miscellaneous materials mentioned previously the department was requested to perform a confirmatory survey of a Diesel Generator. Boeing's survey results for the Diesel Generator showed: No detectable beta or gamma activity from the direct scans, less than 20 dpm/100cm² of removable alpha activity and less than 100 dpm/100cm² of removable beta/gamma activity. The Department's survey confirms the survey results reported by Boeing and indicates that the Diesel Generator is at background radiation levels.

Therefore, the Department concurs with Boeing's survey results that the Stack, Lead shot and Diesel Generator pose no significant radiologic health risk and that no further radiological control is necessary for these items.

If you have questions, please contact Mr. Steve Hsu at (916) 440-7940.

Sincerely,



Gary W. Butner, Acting Chief
Radiologic Health Branch