

September 7, 2012

Mr. Bill Halliburton
Administrator, Cimarron Environmental
Response Trust
c/o Environmental Properties Management, LLC
9400 Ward Parkway
Kansas City, MO 64114

SUBJECT: RELEASE OF CONCRETE RUBBLE IN SUBAREA F OF THE CIMARRON
FACILITY IN CRESCENT, OKLAHOMA, FOR UNRESTRICTED USE

Dear Mr. Halliburton:

By letter dated March 1, 1999 (ML092680779), the U.S. Nuclear Regulatory Commission (NRC) staff stated that it had reviewed the "Final Status Survey Report for Concrete Rubble in Subarea F" for the Cimarron site dated March 10, 1998 (ML090140299) (and supplemented by letters dated April 2, 1998 [ML092650512], June 15, 1998 [ML092610651], and October 6, 1998 [ML092710481]) and had no further questions. The next step for release of the rubble for unrestricted use would have been for the staff to perform an independent confirmatory survey of the concrete. However, because of the existence of a uranium laden groundwater plume in Subarea F, the staff opted not to perform the confirmatory survey.

However, as noted in the March 12, 2012, letter from Jeff Lux, of your staff, to me (ML121110052), now that the groundwater is being addressed, resolution of issues related to the release of the concrete rubble in Subarea F will better enable the Cimarron Environmental Response Trust (the Trust) to plan its remaining decommissioning activities.

In June 2012, the NRC staff performed a confirmatory survey of the concrete rubble in Subarea F. Results of this survey are documented in the NRC Inspection Report 070-00925/12-01 dated July 2, 2012 (ML12185A121). As part of the initial site tour, the NRC inspector measured the ambient gamma radiation exposure rates at various locations around the site. Background direct radiation measured 5-6 microRoentgens per hour. All general area site background direct radiation measurements ranged from 6-10 microRoentgens per hour. In summary, the gamma exposure rates observed during the tour of the site were at background levels.

The inspector then conducted measurements in Sub Area F, with emphasis on the area containing concrete rubble. General area measurements above the concrete rubble at a height of approximately one meter ranged from 6-12 microRoentgens per hour, equal to background levels. In addition, the inspector scanned randomly selected locations. Typical results for fixed radiological contamination measurements ranged from 500-800 counts per minute (cpm) per probe area, with a peak reading of 1200 cpm per probe area. No removable contamination was found. Background levels measured onsite ranged from 400-700 cpm per probe area; thus these readings confirm that the rubble is essentially at background levels. These results can be compared with random measurements of rubble in Sub Area G of 400-800 cpm per probe area. The concrete in Sub Area G had previously been approved for release without restrictions.

B. Halliburton

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Based on its review of submittals related to the concrete rubble in Subarea F, and the results of the June 2012 confirmatory inspection, the NRC staff has determined that the concrete rubble in Subarea F can be released for unrestricted use.

If you have any questions concerning the above, please contact Ken Kalman, Project Manager, at (301) 415-6664 or via email at Kenneth.Kalman@nrc.gov.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice for Domestic Licensing Proceedings and Issuance of Orders," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records component of NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

Sincerely,

/RA/

Paul Michalak, Branch Chief
Materials Decommissioning Branch
Decommissioning and Uranium Recovery
Licensing Directorate
Division of Waste Management
and Environmental Protection Program
Office of Federal and State Materials
and Environmental Management Programs

cc: Cimarron Distribution List

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Sincerely,

/RA/

Paul Michalak, Branch Chief
Materials Decommissioning Branch
Decommissioning and Uranium Recovery
Licensing Directorate
Division of Waste Management
and Environmental Protection Program
Office of Federal and State Materials
and Environmental Management Programs

cc: Cimarron Distribution List

ML12234A603

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DATE	08/29/12	08/30 /12	08/30/12	09/7/12

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Cimarron Site Service List - Ken Kalman, Project Manager

cc:

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