

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE REGULATORY CONTACT RECORD

Date/Time: 12/11/02 – 1430 p m

Site Contact(s): D A Parsons (D&D) – (DAP-006)
Phone: (303) 966-6458

Regulatory Contact: David Kruchek, CDPHE, Edd Kray, CDPHE
Phone: (303) 692-3328

Agency: CDPHE

Purpose of Contact: Resolve Ra-226 issues with Building 334, T371A, T371E, T441A and T121A Type 1 RLCRs

Meeting Attendance

D Parsons, D&D	D Kruchek, CDPHE	S Tower, RFFO
C Freiboth, K-H	R Shannon, 559 ASD	E Kray, CDPHE
J Hindman, CDPHE	R Worrick, Bartlett	D Davidson, K-H
S Burns, K-H	R Morris, Alpha	C Bean, K-H
K Shuler, RFCSS		



Discussion

On December 11, 2002, at 1430 p m , a meeting was held in B116 to discuss CDPHE concerns pertaining to gamma spectroscopy analytical results for two metal coupon samples taken on trailer roofs and a concrete sample taken in building 334 In summary, CDPHE had concerns with some of the higher-than-expected levels of Ra-226 in the analytical sample results

D Parsons opening the meeting by giving some background on the samples that were collected and the analysis results Robert Morris then handed out a white paper containing a discussion on the Uranium Mill Tailing Radiation Cleanup Act (UMTRCA) standards and their applicability to RFETS Robert Morris discussed the basis for the UMTRCA standards and the limitations of the standards In the paper it discussed why the UMTRCA standards are not applicable to RFETS, thus the UMTRCA standard limit for Ra-226 in soil is also not applicable to RFETS D Parsons also stated that RFCA does not define a cleanup standard for Ra-226 in any matrix for RFETS

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Roger Worrick discussed why the metal coupon samples were initially high from the first round of gamma spectroscopy analytical results for two metal coupon samples taken on trailer roofs (i.e., T371D and T371E composite sample, and T441A and T121A composite sample) and then why the follow-up gamma spectroscopy analytical results of the same samples showed results below levels of concern (i.e., below 5 pCi/gram Ra-226). The reason given for the lower follow-up results for Ra-226 activity was due to manual U-235 interference corrections that were performed by the Canberra gamma spectroscopy analyst and longer count times on the re-analysis.

Bob Shannon discussed that the Building 334 concrete sample activity mimicked activity expected to be found in naturally occurring materials. Uranium-238 and radium-226 were observed at nearly equal concentrations in the sample, consistent with secular equilibrium values. For future gamma spectroscopy analysis of similar sample types (e.g., metal coupon samples, concrete samples, paint samples, etc.) K-H Analytical Services Division committed to performing U-235 interference corrections on future Ra-226 analysis results when interference is identified.

Curt Bean also discussed that all of the samples in question were well below the RFETS established unrestricted release levels for uranium and transuranic contamination.

Based on the above discussions, it was determined that no further actions were required on the samples in question and that the samples are all below the RFETS established unrestricted release levels. Verbal CDPHE concurrence was given on the RLCR for T441A, T121A, T371D and T371E. Building 334 CDPHE concurrence will not be obtained until an outstanding metal shaving sample result from a previously collected ventilation duct is provided to DOE and CDPHE.

The Building 884 PDSR was also briefly discussed with Dave Kruchek at the meeting. CDPHE comments were submitted to DOE and K-H earlier in the morning that same day, and the comments were resolved before the meeting. Verbal CDPHE concurrence was given on the 884 PDSR by Dave Kruchek at the meeting. However, the closure of the 884 RCRA Unit has not yet been approved by CDPHE, and therefore the demolition of 884 cannot begin until the RCRA Unit closure is approved.

Contact Record Prepared By: D A Parsons

Required Distribution

P Arnold, K-H
C Deck, K-H
R DiSalvo, RFFO
C Gilbreath, K-H
S Gunderson, CDPHE
T Hopkins, K-H
L Kilpatrick, K-H
J Legare, RFFO

R Leitner, K-H
J Mead, K-H
S Nesta, K-H
K North, K-H
W Prymak, DOE
T Rehder, USEPA
D Shelton, K-H

Additional Distribution

C J Freiboth, K-H
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