

Keenan

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LARRY JOHNSON, H-8, MS-490

September 10, 1975

T. E. Keenan, Group Ldr., H-7, MS-518

RELEASES OF EFFLUENTS TO TEN SITE CANYON

H7-TEX-306

In reply to the Ray Garde memo of 8/20/75, I believe that Ray was given a copy of our ERDAM 0513, Form 789T records for waste discharges from TA-33. As far as we can determine, these data are as accurate as a study the H-7 Ten Site plant operation records can produce for the years 1958 through the present. However, C. W. Christenson, in recalling operation during the 1950s, believes that a number of accidental overflows and/or spills occurred which do not appear to have been recorded. Dean Meyer's memory of operations during those years is similar.

We have again reviewed all of our Ten Site records and H-1 has checked their records for Ten Site and have found the following:

1. A memo from Everett Mathews in July, 1954 (copy attached) infers that 300,000 gal of waste containing 1.9 Ci of mixed 89-90Sr (approximately 25% 90Sr) were discharged to the Ten Site Canyon in 1953. Handwritten notes of Dean Meyer (4 pages) arrive at a similar figure (0.48-0.7 Ci 90Sr). It appears that these figures might also be the best estimate for 1954 discharges.

2. H-1 (Jerry Dumas) found the attached memo (Xerox copy) from Jack Abby to Dean Meyer showing releases of wastes to Ten Site Canyon in the 1951-54 period. The activities are not identified, but on the basis of the generality of the records, I would assume they refer to gross beta. The age of the wastes is not noted, therefore it would be difficult to estimate 90Sr content from this data.

3. In checking all monitoring reports of the 1950s. A report for late January, early February of 1955 states that about 3,000 gals of waste overflowed and 2,000 gals were discharged due to a leak in a potable water line which caused all four tanks to be filled. Activity, probably beta-gamma, was recorded as 1 μCi for a total release of about 20 mCi. 90Sr content of such waste might be as much as 4 mCi.

4. On the ERDAM 0513 forms which were completed several years ago, a 1954 spill was estimated to contain about 0.168 Ci of 90Sr. In searching through the Ten Site records and my personal files at this time, I cannot verify that figure. The attached Xerox copies of certain record pages

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... to show that 8.12-2.28 = 4.05 ft of water were lost from F-8. At 112 gals/in., this amounts to 21,000 gals. However, the Run file figures of Paul Hutchinson show 21,200 gals in storage when the water level was 7.5 ft.

If the separate strontium figure of 29 520 c/w-m is used and it is estimated that this is 100 90s, with the 21,000 gal flow figure, approximately 0.64 Ci were released.

We understand that other record searches are underway to determine releases of activity to Ten Site Canyon. We would appreciate copies of any material that you believe we do not have so that we may bring our records up to date.

In the near future, a corrected 1956 NRC 7897 (0513) form will be forwarded with new forms for the years 1951-1955 for discharges from TA-18.

TRK:gm

RC: L. A. Emality
C. W. Christensen
J. R. Buchholz

Attachments: 2/3

The referenced attachments were not included with this record when it was compiled under the Comprehensive Environmental Assessment and Response Program (CEARP). This occurred before the Environmental Restoration Program's Records Processing Facility (RPF) was established.

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