



Environmental Technologies Group  
 ROCKY FLATS SOLARPOND/PONDCRETE PROJECT  
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 EG&G BUILDING 025  
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September 21, 1992

*Handwritten signature/initials*



Mr. Don Ferrier  
 Project Manager  
 EG&G Rocky Flats, Inc.  
 P. O. Box 464  
 Room 121A  
 Golden, Colorado 80402-0464

Subject: Rocky Flats Plant Solar Evaporation Ponds Stabilization Project  
 [WBS 431 PONDSLUDGE PROCESS TRAIN - DESIGN CRITERIA - HALLIBURTON  
 NUS ROCKY FLATS] POND 207C - RCM WASH SYSTEM  
 RF-HED-92-0599

Dear Mr. Ferrier:

On September 2, 1992, HNUS advised EG&G that our estimates for washing up the RCM and grout loop could produce up to six (6) crates per batch of non-spec half crates in the washing & cleaning process. EG&G requested that HNUS review alternate methods for washup to minimize the number of half crates generated. HNUS informally transmitted this correspondence last week to Mr. Collins for initial comments.

The proposed method of washup involves building a new secondary containment structure north of batch tanks 6 & 7 adjacent to the 750 Pad. The washup area would be located between the curb and the fence, facilitating transferring material back into the batch tanks. The concept is to stage up to six (6) half crates within the containment where the residual material within the grout loop is flushed with brine water from the batch tank and pumped to the wash station. Through a manifold system, the washup material (cemented material and brine wash water) is pumped into half crates and allowed to settle. After several hours, the decant water is pumped back into the batch tanks for reprocessing. Solids would be allowed to cure until they are a DOT solid prior to segregating on the pad for reprocessing in the Pondcrete/Saltcrete Process Train. Anticipated crate generation (solids) for each washing cycle is approximately two (2) half crates. The method proposed has the following advantages over previously considered methods:

- 1) Half crates containing liquids (as defined by DOT Method 9095) do not need to be moved on the Pad.
- 2) Excess water used during the washing cycle is decanted back to the batch tanks for subsequent processing.
- 3) Wash water crates are minimized since only solids remain in off-spec wash up crates [two (2) crates in lieu of six (6)].
- 4) Areas located for the wash station use current installed piping with minor modifications to installed systems. Area located is convenient to operations while being isolated from the production effort of the casting station.

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EG&G Rocky Flats, Inc.  
Attention: Mr. Don Ferrier  
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We have incorporated this concept into the current P&ID's for 207C Pond Processing and are updating the Operating Instructions to reflect this concept. We will not start any erection work of containments until we have received your comments on this methodology.

If you have any questions, please advise.

Sincerely,

HALLIBURTON NUS ENVIRONMENTAL  
CORPORATION



Ted A. Bittner  
Project Manager

TAB/jg

Enclosure

cc: B. Sheets  
J. Templeton  
R. Younger  
J. Zak

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RF-HED-92-0599

September 16, 1992

TO: Ted Bittner  
FROM: Brian Sheets  
SUBJ: Option 2 RCM Wash System

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The purpose of this system is to facilitate a simpler operation for RCM wash-up. See attached sketch.

Proposed System

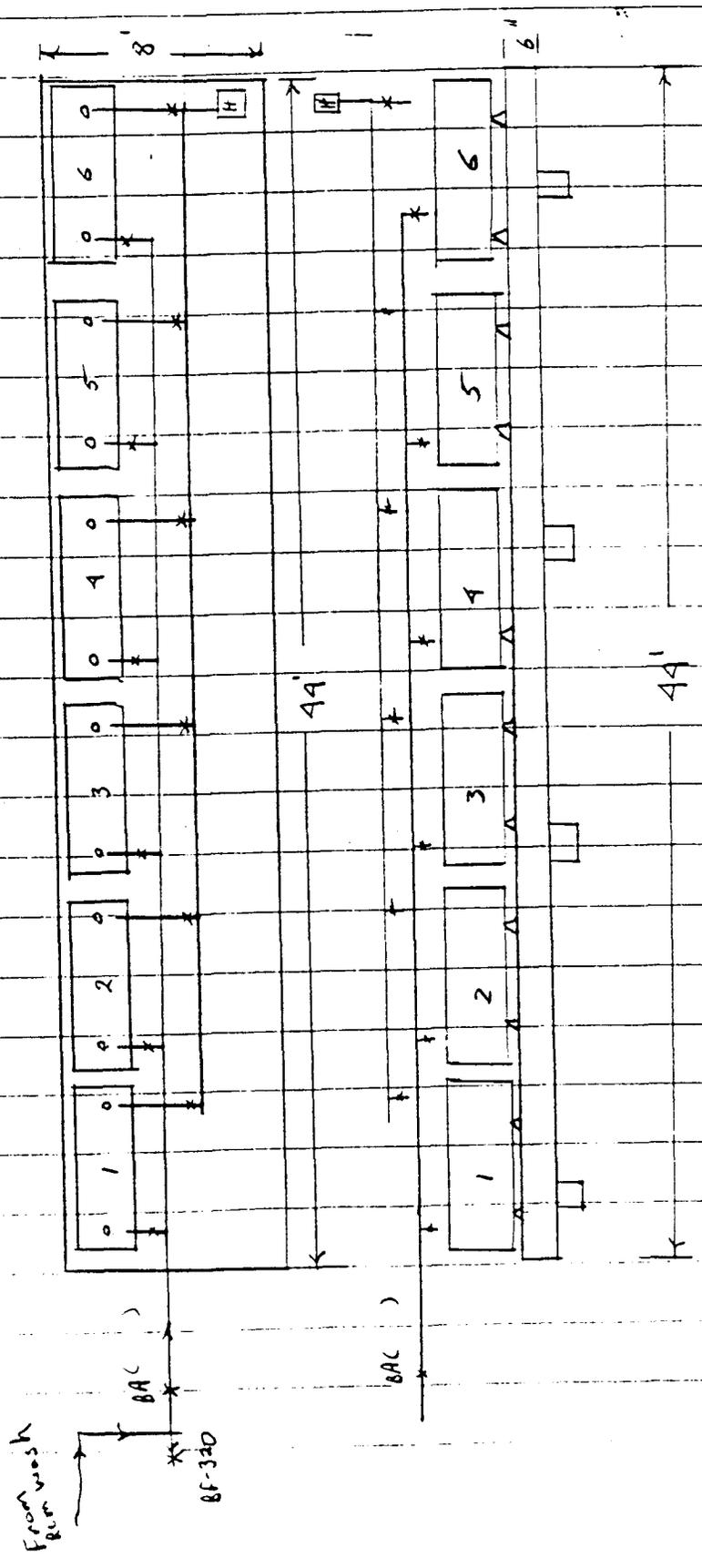
1. Build a 8' x 44' secondary containment with 6" high side walls just north of batch tank containment.
2. Place 6 half crates in line on west side of secondary containment.
3. Build 2" discharge manifold to fill each bladder in half crates individually.
4. Build 2" vent manifold to vent each bladder in half crates to passive HEPA filter individually.
5. Pump RCM wash water to half crates until clean, then divert final rinse to batch tank system.
6. As half crates become full, allow solids to settle and decant free liquid to batch tanks system as needed.
7. Remove full half crates with fork lift as needed.



Brian Sheets

cc: Ricky Rodrigue

waste crate containment 750 AAD NTA of Batch Tanks 1, 5, 6, 7



2' x 7' = half crate

9/15/92

Bill H. [Signature]