

**From:** kenneth.fuller [REDACTED]  
**Sent:** Monday, October 04, 2010 9:49 AM  
**To:** kenneth.fuller [REDACTED]  
**Cc:** Dimarzio, John A.; Cynthia.Williams [REDACTED]; clayton.shedrow [REDACTED]; sachiko-w.mcalhany@nnsa.srs.gov; william.blackburn [REDACTED]; robert07.smith [REDACTED]; pamela.allen [REDACTED]; Lee.Sims [REDACTED]; kevin.gallahue [REDACTED]; richard.burns [REDACTED]; steven.howell [REDACTED]; michael.chandler [REDACTED]; charles.goerger [REDACTED]  
**Subject:** Re: Fw: H-Canyon waste generation question  
 Additional information: Use 1,500,000 gallons of liquid LLW to ETP from H-Area via process sewer. Don't see this number increasing due to Pu mission increase.  
 FY09 1,386,005 gallons  
 FY10 1,463,197 gallons

**From:** Kenneth Fuller [REDACTED]  
**To:** "Dimarzio, John A." [REDACTED]  
**Cc:** Cynthia Williams [REDACTED]; Clayton Shedrow [REDACTED]; Sachiko Mcalhany/NNSA/DOE/Srs@Srs, William Blackburn [REDACTED]; Robert07 Smith [REDACTED]; Pamela Allen [REDACTED]; Srs, Lee Sims [REDACTED]; Kevin Gallahue [REDACTED]; Richard Burns [REDACTED]; Steven Howell [REDACTED]; Michael Chandler [REDACTED]; Charles Goerger [REDACTED]  
**Date:** 09/29/2010 09:55 AM  
**Subject:** Re: Fw: H-Canyon waste generation question

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Question #1: Here is the revised sanitary waste estimate for H-Canyon/HB-Line:

180 tons/yr solid sanitary waste (dumpsters) or 1102 m3/yr  
 105 tons/yr solid sanitary waste (skid/roll pans) or 550 m3/yr

285 tons/yr solid sanitary waste or estimated by volume 1652 m3/yr

Question #2: Did not hear back on preference for revised TRU, mixed LLW, and LLW estimates, so here are the revised bounding estimates with what we know today:

H-Canyon:

0.2 m3/yr TRU  
 1.0 m3/yr Mixed LLW  
 700 m3/yr LLW (almost all due to UNF mission through 2019)

HB-Line:

150 m3/yr TRU (beginning in 2013 due to 6 MT campaign and the large number of 3013 can waste)  
 0.4 m3/yr Mixed LLW  
 150 m3/yr LLW (Pu mission)

NMD Total

150 m3/yr TRU (Pu mission)  
 1.4 m3/yr Mixed LLW  
 850 m3/yr LLW (150 due to Pu mission and 700 due to UNF mission)

Question #3: Estimate of liquid effluent to ETF?

LLW to ETP via the process sewer is up to 6,000,000 gallons contractually by our Functional Service Agreement with SRR. This does not count contaminated or noncontaminated cooling water if diverted to ETF if contamination is detected or diverted for equipment maintenance or as a precaution. I will get with Mark Price to get the updated ETF estimate as he is not here today.

From: Kenneth Fuller [REDACTED]  
To: Cynthia Williams [REDACTED]  
Date: 09/23/2010 01:34 PM  
Subject: Re: Fw: H-Canyon waste generation question

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I'm checking into it to get a corrected estimate of sanitary waste. We used the number that was in the 2008 data call and determined the no change in annual rate of sanitary waste generated , only impacts total volume generated proportional to the number of years of operation.

From: Cynthia Williams [REDACTED]  
To: Kenneth Fuller [REDACTED]  
Date: 09/23/2010 01:16 PM  
Subject: Fw: H-Canyon waste generation question

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Ken,

Can you answer this question?

Cynthia Williams

[REDACTED]

----- Forwarded by Cynthia Williams [REDACTED] on 09/23/2010 01:17 PM -----

From: "Dimarzio, John A." [REDACTED]  
To: <Cynthia.Williams [REDACTED]>  
Cc: <sachiko-w.mcalhany@nnsa.srs.gov>, <virginia.kay [REDACTED]>, <clayton.shedrow [REDACTED]>, "Gorden, Milton E." [REDACTED]  
Date: 09/23/2010 07:49 AM  
Subject: FW: H-Canyon waste generation question

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See below question on nonhazardous waste generation at H-Canyon. Is the 200,000 m3/yr wastewater or solid waste?

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**From:** Gorden, Milton E.

**Sent:** Wednesday, September 22, 2010 11:36 AM

**To:** Dimarzio, John A.

**Subject:** H-Canyon waste generation question

John,

In *2010 SPD SEIS Disposition HCanyon Data Call.pdf*, page 12, it is stated that we should assume 200,000 m<sup>3</sup>/yr of sanitary waste from H-Canyon. However, SRS as a whole only generates about 2,200 m<sup>3</sup>/yr of **solid** sanitary **waste** and 70,000 m<sup>3</sup>/yr of C&D. Can someone check H-Canyon's estimate?

Also, does H-Canyon/HBL generate any liquid LLW that is sent to the effluent treatment project for treatment and discharge? If so, what would be the annual volume?

Thanks

**Milton E. Gorden** | SAIC

Senior Engineer

Energy, Environment & Infrastructure Solutions



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