

* The only tank involved is for the Diesel Fuel for the generator which is located outside the building. It contains 145 gallons of fuel. The diked area around the diesel generator was constructed to contain the volume of the diesel generator tank plus a 6" rain event.

KAC Overall:

* Be aware that there are other chemicals stored within the KAC, but are not specifically associated with either KAMS or KIS. All chemicals' inventories are below the TQs, TPQs, and RQs are required by the DSA. If a list of the total KAC inventory is required, let me know.

Thanks

Betsy

Betsy Westover [REDACTED]

To Greg Burbage [REDACTED]

cc

04/17/2008 10:56 AM

Subject RE: PuD SEIS Data Call Request for SAIC [Link](#)

For original CSSC:

Construction Waste (total numbers):

TRU: 0 ft³

LLW: 450 ft³

MLLW: 0 ft³

Haz: 0 ft³

Non-haz: 1080 ft³

PCB: 45 ft³

Lead for reuse: 90 ft³

Operations Waste (best estimate):

TRU: 1.0 m³/yr

MTRU: 0 m³/yr

LLW: 50 m³/yr

MLLW: 0 m³/yr

Haz: 0.1 m³/yr

Non-hazardous: 21 m³/yr

I noticed under KIS, we had nothing for Haz or Non-haz waste for Operations. I would add there the following, if not too late:

Haz: 0.05 m³/yr

Non-hazardous: 21 m³/yr

Thanks

Betsy

Greg Burbage [REDACTED]

04/08/2008 04:37 PM

To James Bell/BSR [REDACTED] Lee Carey [REDACTED] Perjetta
 Hightower [REDACTED]
 cc Bob Bayer [REDACTED] chadi.d.groome [REDACTED] hitesh.nigam [REDACTED]
 john.dimarzio [REDACTED] Michelle Ewart [REDACTED] Drew
 Grainger [REDACTED] Thomas Monahan [REDACTED] Preston
 Leeper [REDACTED] Ralph Cansler [REDACTED] Joseph
 Damelid [REDACTED] Betsy Westover [REDACTED] Srs, Linda
 Nass [REDACTED] Wayne Farrell [REDACTED] Henry
 Boler [REDACTED] Clayton Holloway [REDACTED]
 Subject RE: PuD SEIS Data Call Request for SAIC [Link](#)

Ricky/Lee/PK,

In support of the PuD SEIS, DOE has requested that the original CSSC project scope be described to SAIC via response to the attached data call (e-mail Burbage to Dimarzio, 4/7/08). Bob Bayer and I have discussed this request, as recorded in the e-mail string below. Bob has graciously taken the lead on this request.

An additional request by DOE is to now have the new PuD direction described for inclusion in the PuD SEIS. Please designate a PuD Project point-of-contact to respond to this request. The questions that SAIC posed in the provided data call for KAMS-KIS-CSSC, may be answered for PuD. Responses are to be sent to me so that I may compile as a single transmittal to SAIC. If you have questions, please do not hesitate to call. Thanks.

Drew Grainger [REDACTED]

04/07/2008 03:37 PM

To Bob Bayer [REDACTED]
 cc Greg Burbage [REDACTED] john.dimarzio [REDACTED] chadi.d.groome [REDACTED]
 hitesh.nigam [REDACTED] Michelle Ewart [REDACTED]
 Subject RE: PuD SEIS Data Call Request for SAIC [Link](#)

Thanks.

We need the data call completed for the CSSC project.

In regard to the PuD scope, I will let SAIC respond, but I think it would be most efficient to ask that the data call be completed using previous work and engineering judgement, as described in your email.

Andrew R. Grainger, NEPA Compliance Officer
Office of the Assistant Manager for Closure Project
Savannah River Operations Office

[REDACTED]

Bob Bayer [REDACTED]

04/07/2008 03:29 PM

To Drew Grainger [REDACTED]
 cc Greg Burbage [REDACTED]
 Subject RE: PuD SEIS Data Call Request for SAIC [Link](#)

I was just wanting to clarify what we are to provide and for what variation of CSSC/PuD. There no longer will be a CSSC facility. The new facility is PuD and has a different mission.

The PuD project has incorporated most of the CSSC scope, however the overall purpose is changed. CSSC's purpose was to store material and support the 3013 surveillance mission - its throughput was therefore limited to loading the storage racks and performing 3013 surveillance activities (replaces KIS). All materials were repackaged into 3013 containers. The glovebox throughput was around 0.1 mt per year.

The overall program mission is to disposition up to 13 MT of pu material by 2019. PuD is expected to become operational in 2014 and process the remainder of the material for 2 main disposition paths - MFFF and H area. The glovebox operations necessary involve metal oxidation, oxide stabilization (from CSSC), 3013 packaging (from CSSC), non-3013 packaging, FFTF disassembly and repackaging. The throughput in the PuD gloveboxes will be over 10 times the CSSC rate. The can storage racks from CSSC scope also have been incorporated into PuD. The HVAC setup will be different for PuD. CSSC had an SS HEPA system. PuD will have an SC sand filter system. The KIS facility is currently assumed to remain operational by PuD.

The location for PuD is where CSSC was to go.

PuD is currently in the early stages of conceptual design and has little documentation related to the new scope. If the questions are to be answered for the new PuD scope, those responses would have to be based on previous work from other projects using best engineering judgement. CSSC had more documentation when work was stopped but the current PuD scope differs as well as the proposed safety controls. If you think the differences between CSSC and PuD are not significant from the SEIS point of view, then OK.

Drew Grainger [REDACTED]

04/07/2008 02:15 PM

To Greg Burbage [REDACTED]
cc Betsy Westover [REDACTED] betsy.westove [REDACTED] Bob
Baye [REDACTED] "Groome, Chadi D." [REDACTED]
clayton.shedrow [REDACTED] henry.boler [REDACTED] "Dimarzio, John A." [REDACTED]
[REDACTED] Joseph Damelio [REDACTED] Lance
Travel [REDACTED] Linda Nass [REDACTED] Preston
Leeper [REDACTED], Ralph Cansler [REDACTED] Richard
Koenig [REDACTED], Wayne Farrel [REDACTED]

Subject RE: PuD SEIS Data Call Request for SAIC [Link](#)

Greg,

Yes, the original CSSC scope.

It is my (perhaps too simple) understanding the only major difference in the original scope and the scope being proposed for CD-1A now is the addition of the FFTF handling capability.

Drew

Andrew R. Grainger, NEPA Compliance Officer
Office of the Assistant Manager for Closure Project
Savannah River Operations Office
[REDACTED]

Greg Burbage [REDACTED]

04/07/2008 12:31 PM

To Drew Grainge [REDACTED]

cc Betsy Westover [REDACTED] betsy.westove [REDACTED] Bob Baye [REDACTED] "Groome, Chadi D." [REDACTED] clayton.shedrow [REDACTED] henry.boler [REDACTED] "Dimarzio, John A." [REDACTED] Joseph Damelio [REDACTED] Lance Traver [REDACTED] Linda Nass [REDACTED] Preston Leepe [REDACTED] Ralph [REDACTED] Richard Koenig [REDACTED] Wayne Farrel [REDACTED]

Subject RE: PuD SEIS Data Call Request for SAICLink

Drew,

For clarification, when CSSC is referred to in this data call, are we speaking of the original CSSC project scope or the new alternative of vit-less, Pu. preparation for the two prong disposition approach?

Greg Burbage [REDACTED]

04/07/2008 09:10 AM

To "Dimarzio, John A." [REDACTED]

cc betsy.westove [REDACTED] "Groome, Chadi D." [REDACTED] clayton.shedrow [REDACTED] henry.boler [REDACTED] Wayne Farrel [REDACTED] Richard Koenig [REDACTED] Lance Traver [REDACTED] Bob Baye [REDACTED] Linda Nass [REDACTED] Greg Burbage [REDACTED] Betsy Westover [REDACTED] Drew Grainge [REDACTED] Joseph Damelio [REDACTED] Ralph Cansler [REDACTED] Preston Leepe [REDACTED]

Subject RE: PuD SEIS Data Call Request for SAICLink

John,

The scope of the KAMS-KIS-CSSC data call for PuD SEIS was more expansive than I had realized from your voice message (beyond rad. and exposure information). Therefore, I am resending it to various other experts in NMM for their response to SAIC. These individuals are Rich Koenig (KAMS), Lance Traver (KIS), Bob Bayer (CSSC), Linda Nass (air emissions), Greg Burbage (liquid emissions), Betsy Westover (waste), and Wayne Farrell (rads./exposure). I have included their telephone numbers below, along with the attached data call. Within the data call, each individual can find what questions they are expected to respond to (written reply to Burbage).

To those responding to the data call, please simply answer the respective questions within the matrix (in blue text). If you require clarification, give me a call and I will assist you, or you may call John Dimarzio directly at [REDACTED]. You may also e-mail John with your questions if written clarification is desired. Finally, if documentation exists that answers SAIC's questions, you may forward that information to SAIC via Barry Shedrow. Make sure that it is clear to SAIC which questions the forwarded doc.s (PDF, etc.) address. Thanks.

[attachment "KAMS-KIS-CSSC Data Call-040408.doc" deleted by Betsy Westover [REDACTED]]

- Koenig - [REDACTED]
- Traver - [REDACTED]
- Bayer - [REDACTED]
- Nass - [REDACTED]
- Burbage - [REDACTED]

Westover - [REDACTED]
Farrell - [REDACTED]

"Dimarzio, John A." [REDACTED]

04/04/2008 10:50 AM

To <wayne.farrel[REDACTED]>
cc <clayton.shedrow[REDACTED]> <greg.burbage[REDACTED]> <betsy.westove[REDACTED]>
<henry.boler[REDACTED]> "Groome, Chadi D." [REDACTED]
Subject RE: PuD SEIS Data Call Request for SAIC

Thanks for helping us out on this.....

I modified the information request form that we used for the other data calls so you can see the types of information we are searching for to complete the environmental impacts analysis for the Surplus Plutonium Disposition SEIS. We have obtained most of the information we need for construction and operation of H-Canyon/HB-Line, DWPF, MOX FFF, PDCF, WSB, and the K-Area Vitrification Facility. We would like to obtain similar information, where applicable, for KAMS, KIS, and CSSC. Unfortunately, the existing NEPA documents for these facilities (SAs and DOE/EA-1538) contain little quantitative information to help us.

I'll give you a little time to look over the attachment and then I'll give you a call to discuss.

....John

From: greg.burbage [REDACTED]
Sent: Friday, April 04, 2008 9:22 AM
To: Dimarzio, John A.; clayton.shedrow [REDACTED]; wayne.farrel [REDACTED]
Cc: betsy.westover [REDACTED]; henry.boler [REDACTED]
Subject: PuD SEIS Data Call Request for SAIC:

John/Barry/Wayne,

I received a voice mail yesterday from John Dimarzio, SAIC, requesting KIS/KAMS/CSSC information relative to radiological exposure, releases, etc. The Nuclear Materials Management technical lead for such information is Wayne Farrell [REDACTED]. To better expedite the Q & A aspect of this request, I recommend that John make contact directly with Wayne, and allow Barry Shedrow or myself to disseminate written information to SAIC as necessary.

This is an extremely important need for SAIC in support the Environmental Impact Statement for Pu Disposition. Should problems be encountered by any of you gentlemen in transmission of requested data/feedback, please do not hesitate to give me a call. Thanks.[attachment "KAMS-KIS-CSSC Data Call-040408.doc" deleted by Betsy Westover [REDACTED]]

Approved List of Chemicals for K Area Interim Surveillance (KIS) Related Systems

NOTE: Per NMMP 14.01, all chemicals **PRIOR** to being brought into the KAC must be approved by the NMM Chemical Coordinator and/or Environmental Compliance Authority. For chemicals impacting KIS related systems, the NMM CC and/or ECA approval is required.

System	System Location	MSDS Number	Chemical Name	Manufacturer	Storage Location	Use
Digital Radiography (DR) Unit	Chiller Room Area	36737-1	Shell S.5585 Oil	Shell & DEA Oil GMBH	Chiller Room Area	DR Unit oil cooler
		35005-1	Shell Diala G GETR Oil	Shell & DEA Oil GMBH	Chiller Room Area	DR Unit Transformers
		29356-1	Freon (R22) (Chlorodifluoromethane)	Air Liquide	Chiller Room Area	DR Chiller Unit
		39152-1	Wacker Silicone Paste P4	Wacker-Chemie GMBH	918 MAC Room	ADRS High Voltage Connectors
Fire Suppression	Assembly Area/KIS	31463-1	FM-200	Great Lake Chemical	Assembly Area	Fire Suppression in KIS Vault
	KIS DE Room	7973-1	Magnorite M-70 (Magnesium Oxide Sand)	Norton Company	DE Room/Glovebox	Fire Suppression in GB
Diesel Generator	Outside by Stack Area	38418-1	No 2 Diesel Fuel	Conoco Phillips	Diesel Fuel Tank	KIS Emergency Diesel
		14210-1	Anitfreeze	Ashland Chemical Inc.	Diesel	KIS Emergency Diesel
		15975-1	Diesel Lube Oil R-25 SAE 30	Conoco	Diesel	KIS Emergency Diesel
DE Process	KIS DE Room	28505-1	Baby Powder	Cumberland-Swan	918 MAC Room	GB gloves
		38002-1	HiTop/Desiccant Family of Hydrogen/Water Absorbers (Hydrogen Getter)	Vacuum Energy	+15 Room 417	Hydrogen gas absorption in daughter cans
		29353-1	Carbon Dioxide Gas (CO2)	Air Liquide	Chiller Room Area	Inerting PCVs
		29045-1	Nitrogen Gas (N2)	Air Liquide	Chiller Room Area	Leak Test PCVs & Inerting CPD
		13263-1	Silicone Oil	Hach Company	918 MAC Room	DPTE decon
		7937-1	Leak-Tec 277C	American Gas & Chemical Co. Ltd	918 MAC Room / DE Room Glovebox	Drillbit leak check
		936-1	Dow Corning 7 Release Compound	Dow Corning	918 MAC Room	Potential maintenance activities
		32386-1	Loctite 660 Quick Metal Retaining Compound	Loctite Corp	918 MAC Room	Glue angle iron to GB for scale
		36058-1	Superbonder 495 Instant Adhesive	Henkel Loctite Corp	918 MAC Room	Glue angle iron to GB for scale
		26852-1	Polystar RB 2 (01915) Grease (NIG-2 A223)	Texaco	919 MAC Room	Cutter wheel
NDE Process	KIS NDE Room	6381-1	Silicon High Vacuum Grease	Dow Corning Corp.	918 MAC Room	PCV/SCV O-Rings
		8815-1	Krytox Grease	E. I. Dupont	918 MAC Room	PCV/SCV Threads
		11565-1	Ethyl Alcohol	Aaper Alcohol & Chemical Co.	918 MAC Room	PCV/SCV Thread Cleaning
Assay Systems (SWAS, NMC, Calorimeter, PG/GIC)	KIS Vault	3259-2	Liquid Nitrogen	BOC Gasses	Chiller Room Area	Various Assay Systems Cooling
PCM-1B	Room 910-A	29289-1	P-10 Gas	Air Liquide	Chiller Room Area	PCM-1B

Container Volume	Material ID Number	Annual Use Reporting	CY2007 Estimated Usage
9 gallons	36737-1-1	closed system	0 (no chemical added)
50 gallons total	none	closed system	0 (no chemical added)
6.5 lbs	32-529.00	closed system	0 (no chemical added)
90 mL tubes	39152-1-1	report	1
400 lb cylinders	31463-1-17	only if triggered	0
5 gallons	7973-1-2	only if replaced	0
145 gallons	38418-1-1	outside group	NA
3 gallons	14210-1-2	outside group	NA
10.5 quarts	15975-1-1	outside group	NA
15 oz	17-91000.00	exempt	NA
0.5 kg per can	38002-1-1	report	22
50 lb cylinders	29353-2-1, 32-524.00	report	1
234 fl3 cylinders	32-542.00, 29045-1-3	report	2
15 mL bottle	13263-1-3	report	1
4 fl oz (0.5 oz in GB)	5-3847.00, 7937-1-9	report	1
5 oz	22-2130.00	report	0
15 mL bottle	32386-1-1	report	0
1 oz bottle	5-1708.15	report	0
14 oz	26852-1-4, 22-770.00	report	1
5.3 oz tubes	22-2120.00, 6381-1-13	report	0
8 oz tubes	22-2160.00	report	2
1 gallon	11565-1-2, 6-810.00	report	0
30 L	3259-1-4	report	12
225 fl3 cylinders	32-556.00	outside group	0 (monitor relocated outside of KIS)

Approved By NMM Chemical Coordinator: Douglas J. Wilbanks / signed copy on file
 Print / Signature _____ Date _____

Approved By NMM ECA: Betsy L. Westover / signed copy on file
 Print / Signature _____ Date _____