



July 29, 2002

Mr. James Shepherd, Project Manager
Facilities Decommissioning Section
Office of Nuclear Material Safety
And Safeguards

Re: SMB-911; Independent Cost Estimate for Decommissioning Muskogee Site

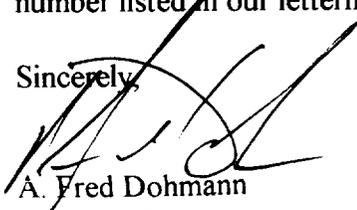
Dear Mr. Shepherd:

As requested in your June 6, 2002 letter, please find enclosed the response to the remaining questions, pertaining to the physical aspects of the above referenced subject matter. Please review the enclosed material and forward to your consultant, ICF.

Additionally, note that under separate cover, Fansteel will forward references to questions regarding the Earth Sciences 1993 Characterization Report to you upon receipt and review.

If you or ICF have any questions, please do not hesitate to contact me at the phone number listed in our letterhead insignia.

Sincerely,



A. Fred Dohmann
General Manager

AFD/la

Enclosure

Copy to: Jon Jackson – North Chicago, IL
Keyton Payne – Muskogee, OK

A. Fred Dohmann
General Manager
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**FANSTEEL - ICF/NRC QUESTIONS
RESPONSE 1**

PRE-SITE VISIT QUESTIONS:

General

- 21. What reports or other documentation are available from the June 18, 1989 release from Pond 3? For example, incident reports to EPA or NFIC, or sampling results.**

Answer: Notifications to NRC, EPA, and county LEPC are kept on site. Sample results have not been located, but are discussed in the Earth Sciences Remediation Strategy Pond 3 Report, Project # 7312, dated 7/89.

- 22. Were sediment and/or surface water samples taken in the river after the 1989 pond 3 release?**

Answer: As stated above, sample results have not been located; however, surface water samples were taken upstream and downstream. This information is discussed in the Remediation Strategy Pond 3 Report by Earth Sciences.

- 23. What historical information is available on the use of Ponds 1N and 1S:**

Answer: Pond 1S was built for sodium reduction wastewater and as a settling pond. The water from sodium reduction wet room and floor washing went from that building through a concrete ditch to this pond. The ultra fines settled out in this pond and were recovered. This pond was lined. There is no documentation on the construction of the pond or the liner material. The liner material was the same in appearance as liners in Ponds 3,8 & 9. Pond 1N contained lime slurry, which was removed and transferred to a landfill in Oklahoma. The liner in this pond appeared to be similar to the others.

Buildings

- 21. What are the dimensions of the following buildings: R&D Building (1st and 2nd floors), Building 10, and second floor of Chemical A Building?**

Answer: The dimensions of R&D Building first floor are 102'x75'. Second floor is 102'x26'. The dimensions of Building 10 are 24'x20'. The second floor of Chemical A Building is only a landing now. During operations the second floor was approximately 72'x100'. When Fansteel removed the old equipment in the building, all but approximately 20'x20' of the building was removed also.

- 22. What are the current contents of each building?**

Answer: See Attachment A

- 31. Which building on site is the "White House" (Building 7) and which is Building 10?**

Answer: See Attachment B, Building Dimensions.dwg, 6/20/02.

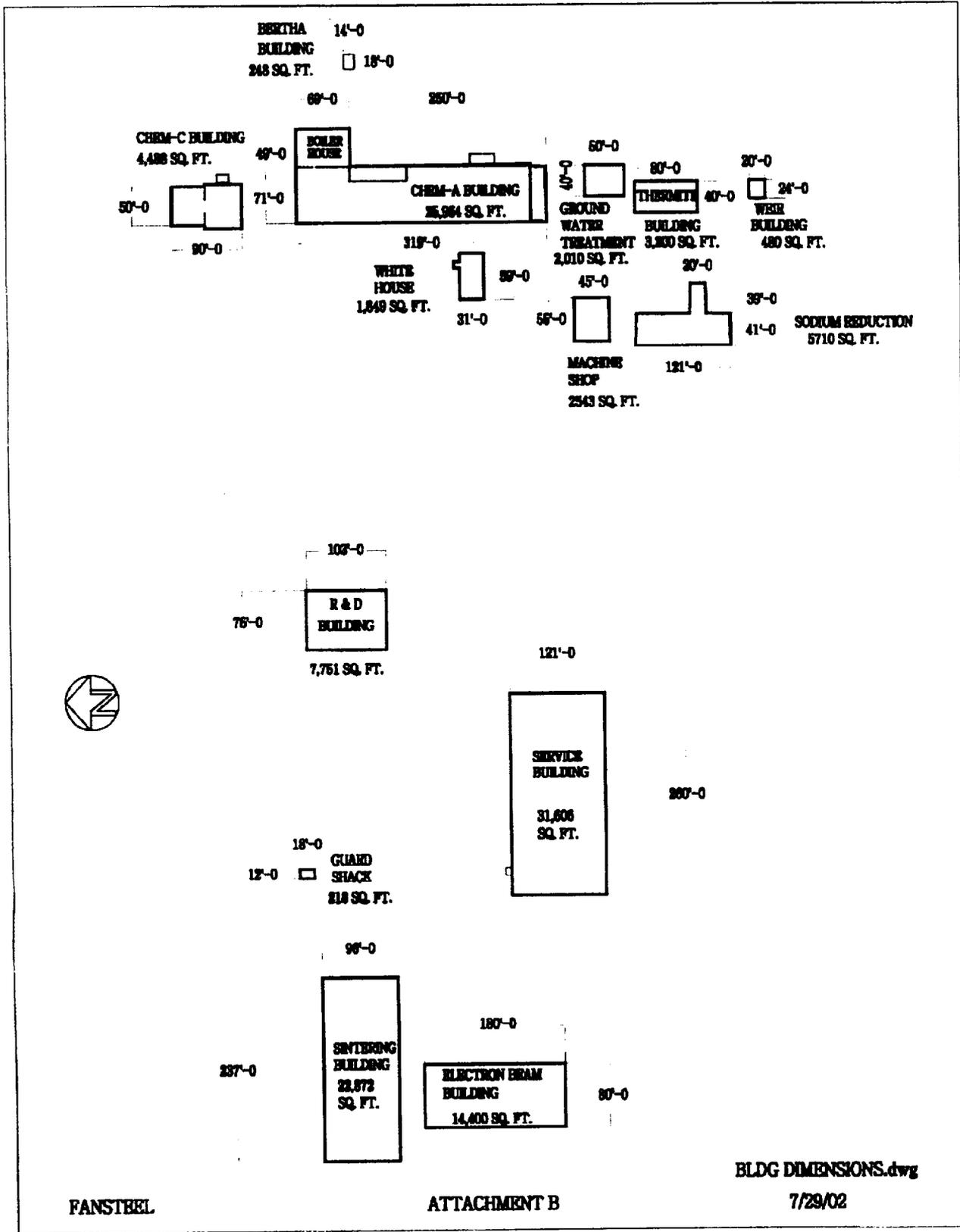
32. Have any buildings or structures been demolished on the site? If so, where were they and what were they used for?

Answer: See Attachment A for information.

Historical Process Operations

Note: Additional request from ICF. Two years summary of NPDES Outfall 001. Attached.

Building Number 1993 remedial survey	Fansteel Description		Contents of Each Building
7	White House Break Room	Tornado/Rebuilt New	
8	Bulk Sodium Building	Tornado	
9	Thermite Building		Maintenance Equipment
10	Weir Building	Tornado/ rebuilt new	Process Equipment
11	Sodium Reduction Building	Tornado/ Rebuilt Repaired	See Attachment C
12	Little Bertha Building	Tornado/Rebuilt New	Lab & Research Equipment
13	"Chem C" Building		Process Equipment
14	Slaker Buildings		Process Equipment
15	R & D Building		Warehouse and Office
16	"Chem A" Building		Process Equipment
17	HF Unloading Building	Safety Storage	Safety Equipment
18	Pond 3 Pump House		Process Electrical Equipment
19	Pond 3 Tool Storage	Tornado	
20	"Chem C" Electric Building		Process Electrical Equipment
BS1	Cooling Tower Pit		Water
BS2	Cooling Tower Pit		Water
	Machine Shop	New Replaced Building 8	Maintenance Equipment
	Gunch House	Removed Early 90's	



FANSTEEL

ATTACHMENT B

BLDG DIMENSIONS.dwg

7/29/02

Location**Sodium Reduction Building**

Quantity	Size	Contents
~1200	1 Ton Bulker Bags	Pond 5 Material
72	55 Gal. Steel Drums	1991-1992 Sump Clean Out of Plant Shutdown
12	PVC Bulker Bags	Recovery Material, Tantalum Raffinate
4	PVC Bulker Bags	Recovery Material, Scandium Raffinate
1	PVC Bulker Bags	FP-313, Sodium Sulfate
23	55 Gal. Steel Drums	Milled Caf ₂
2	55 Gal. Steel Drums	Sulfated Caf ₂
6	55 Gal. Steel Drums	Thorium Solids
13	55 Gal. Steel Drums	Calcined WIP
3	55 Gal. Steel Drums	F-702, Undissolved Alumnium
1	55 Gal. Steel Drums	F-610 Uranium Solids
1	55 Gal. Steel Drums	Sulfated WIP
32	PVC Bulker Bags	Pond 2 Material
2	PVC Bulker Bags	F-522 Clean Up February 2002

DATE	7.22.01	8.31.01	8.30.01	8.29.01	9.27.01	9.26.01	9.25.01	10.31.01	10.30.01	10.20.01	10.19.01	10.18.01
Gross Alpha	6	19	16	5	17	28	34	7	3	38	31	20
Gross Beta	57	30	49	30	81	84	131	16	10	66	64	45
Th 232	0.03	0.05	0.14		0.03	0.12	4			0.18	0.01	0
Th 230	0.29	0.18	0.05		0	0.21	0.8			0.18	0.04	0.42
Th 228	0.07	0.32	0.24		0.14	0.14	4			0.36	0.28	0.12
U 238	6	3	3		3	4	4			9	7	6
U 235	0.38	0.33	0.2		0.24	0.26	0.2			0.5	0.6	0.21
U 234	6	3	3		3	4	3			7	10	6

DATE	10.4.01	10.3.01	10.2.01	11.15.01	11.14.01	11.13.01	11.28.01	11.27.01	12.20.01	12.19.01	12.18.01	3.20.02
Gross Alpha	14	10	7	4	5	3	6	5	8	26	27	18
Gross Beta	60	103	3	53	38	37	54	44	79	52	72	86
Th 232	0.07	0		0.12			0.04		0.04	0	0.25	0.6
Th 230	0.22	0.19		0.17			0.17		0.42	0.7	0.64	0.31
Th 228	0.25	0.18		0.31			0.3		0	0.54	0.49	0.08
U 238	4	3		3			2		5	4	7	6
U 235	0.2	0.17		0.12			0.16		0.2	0.16	0.24	0.33
U 234	4	3		2			2		5	3	2	5

DATE	3.19.02	4.9.02	4.8.02	5.23.02	5.22.02	5.21.02	6.27.02	6.26.02	6.25.02			
Gross Alpha	8	12	23	20	18	22	1	1	1			
Gross Beta	49	7	78	86	87	92	1	1	1			
Th 232			0.09	0	0.04	0						
Th 230			0	0	0	0						
Th 228			0.16	0.09	0.04	0						
U 238			5	0.18	6	6						
U 235			0.32	0	0.41	0.18						
U 234			5	0.22	5	6						