



OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION

January 25, 2008

Ms. Elizabeth Ullrich
U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406

**SUBJECT: REPORT FOR ANALYSES OF 100 SWIPE SAMPLES ASSOCIATED WITH
THE SAFETY LIGHT CORPORATION IN BLOOMSBURG, PENNSYLVANIA**

**[INSPECTION REPORT NO. 030-05982/2008-001] [RFTA NO. 08-001]
DCN: 1761-LR-01-0**

Dear Ms. Ullrich:

The Oak Ridge Institute for Science and Education (ORISE) received 100 swipe sample associated with the Safety Light Corporation. The swipe samples were analyzed for tritium using a liquid scintillation analyzer to a minimum detectable concentration of 30 dpm/swipe. Sample identification and collection data for the samples addressed in this report are presented in Table 1. The tritium data are provided in Table 2. The pertinent procedure reference is provided in the tritium table.

ORISE's Quality Control (QC) requirements were met for these analyses. The QC files are available for your review upon request.

My contact information is listed below. You may also contact Wade Ivey at 865.576.9184 with any questions or comments.

Sincerely,

Dale Condra, Manager
Laboratory

RDC:WPI:km

Enclosures

c: T. Carter, FSME/DWMEP/DD/SP T-8F5
E. Knox-Davin, NRC/FSME/TWFFN 8A23
File 1761

E. Abelquist, ORISE
S. Roberts, ORISE

Distribution approval and concurrence :	Initials
Technical Management Team Member	<i>DJR</i>
Quality Manager	<i>ATP</i>

TABLE 1

**SAMPLE IDENTIFICATIONS
AND COLLECTION DATA
SAFETY LIGHT CORPORATION
BLOOMSBURG, PENNSYLVANIA**

ORISE Sample ID	NRC Region I Sample ID	Collection Date and Time
1761R0001-1	1	1/10/08 10:30 AM – 1:30 PM
1761R0001-2	2	1/10/08 10:30 AM – 1:30 PM
1761R0001-3	3	1/10/08 10:30 AM – 1:30 PM
1761R0001-4	4	1/10/08 10:30 AM – 1:30 PM
1761R0001-5	5	1/10/08 10:30 AM – 1:30 PM
1761R0001-6	6	1/10/08 10:30 AM – 1:30 PM
1761R0001-7	7	1/10/08 10:30 AM – 1:30 PM
1761R0001-8	8	1/10/08 10:30 AM – 1:30 PM
1761R0001-9	9	1/10/08 10:30 AM – 1:30 PM
1761R0001-10	10	1/10/08 10:30 AM – 1:30 PM
1761R0001-11	11	1/10/08 10:30 AM – 1:30 PM
1761R0001-12	12	1/10/08 10:30 AM – 1:30 PM
1761R0001-13	13	1/10/08 10:30 AM – 1:30 PM
1761R0001-14	14	1/10/08 10:30 AM – 1:30 PM
1761R0001-15	15	1/10/08 10:30 AM – 1:30 PM
1761R0001-16	16	1/10/08 10:30 AM – 1:30 PM
1761R0001-17	17	1/10/08 10:30 AM – 1:30 PM
1761R0001-18	18	1/10/08 10:30 AM – 1:30 PM
1761R0001-19	19	1/10/08 10:30 AM – 1:30 PM
1761R0001-20	20	1/10/08 10:30 AM – 1:30 PM
1761R0001-21	21	1/10/08 10:30 AM – 1:30 PM
1761R0001-22	22	1/10/08 10:30 AM – 1:30 PM
1761R0001-23	23	1/10/08 10:30 AM – 1:30 PM
1761R0001-24	24	1/10/08 10:30 AM – 1:30 PM
1761R0001-25	25	1/10/08 10:30 AM – 1:30 PM
1761R0001-26	26	1/10/08 10:30 AM – 1:30 PM
1761R0001-27	27	1/10/08 10:30 AM – 1:30 PM
1761R0001-28	28	1/10/08 10:30 AM – 1:30 PM
1761R0001-29	29	1/10/08 10:30 AM – 1:30 PM
1761R0001-30	30	1/10/08 10:30 AM – 1:30 PM
1761R0001-31	31	1/10/08 10:30 AM – 1:30 PM
1761R0001-32	32	1/10/08 10:30 AM – 1:30 PM
1761R0001-33	33	1/10/08 10:30 AM – 1:30 PM
1761R0001-34	34	1/10/08 10:30 AM – 1:30 PM

TABLE 1 (CONT.)

**SAMPLE IDENTIFICATIONS
AND COLLECTION DATA
SAFETY LIGHT CORPORATION
BLOOMSBURG, PENNSYLVANIA**

ORISE Sample ID	NRC Region I Sample ID	Collection Date and Time
1761R0001-35	35	1/10/08 10:30 AM – 1:30 PM
1761R0001-36	36	1/10/08 10:30 AM – 1:30 PM
1761R0001-37	37	1/10/08 10:30 AM – 1:30 PM
1761R0001-38	38	1/10/08 10:30 AM – 1:30 PM
1761R0001-39	39	1/10/08 10:30 AM – 1:30 PM
1761R0001-40	40	1/10/08 10:30 AM – 1:30 PM
1761R0001-41	41	1/10/08 10:30 AM – 1:30 PM
1761R0001-42	42	1/10/08 10:30 AM – 1:30 PM
1761R0001-43	43	1/10/08 10:30 AM – 1:30 PM
1761R0001-44	44	1/10/08 10:30 AM – 1:30 PM
1761R0001-45	45	1/10/08 10:30 AM – 1:30 PM
1761R0001-46	46	1/10/08 10:30 AM – 1:30 PM
1761R0001-47	47	1/10/08 10:30 AM – 1:30 PM
1761R0001-48	48	1/10/08 10:30 AM – 1:30 PM
1761R0001-49	49	1/10/08 10:30 AM – 1:30 PM
1761R0001-50	50	1/10/08 10:30 AM – 1:30 PM
1761R0001-51	51	1/10/08 10:30 AM – 1:30 PM
1761R0001-52	52	1/10/08 10:30 AM – 1:30 PM
1761R0001-53	53	1/10/08 10:30 AM – 1:30 PM
1761R0001-54	54	1/10/08 10:30 AM – 1:30 PM
1761R0001-55	55	1/10/08 10:30 AM – 1:30 PM
1761R0001-56	56	1/10/08 10:30 AM – 1:30 PM
1761R0001-57	57	1/10/08 10:30 AM – 1:30 PM
1761R0001-58	58	1/10/08 10:30 AM – 1:30 PM
1761R0001-59	59	1/10/08 10:30 AM – 1:30 PM
1761R0001-60	60	1/10/08 10:30 AM – 1:30 PM
1761R0001-61	61	1/10/08 10:30 AM – 1:30 PM
1761R0001-62	62	1/10/08 10:30 AM – 1:30 PM
1761R0001-63	63	1/10/08 10:30 AM – 1:30 PM
1761R0001-64	64	1/10/08 10:30 AM – 1:30 PM
1761R0001-65	65	1/10/08 10:30 AM – 1:30 PM
1761R0001-66	66	1/10/08 10:30 AM – 1:30 PM
1761R0001-67	67	1/10/08 10:30 AM – 1:30 PM
1761R0001-68	68	1/10/08 10:30 AM – 1:30 PM
1761R0001-69	69	1/10/08 10:30 AM – 1:30 PM

TABLE 1 (CONT.)

**SAMPLE IDENTIFICATIONS
AND COLLECTION DATA
SAFETY LIGHT CORPORATION
BLOOMSBURG, PENNSYLVANIA**

ORISE Sample ID	NRC Region I Sample ID	Collection Date and Time
1761R0001-70	70	1/10/08 10:30 AM – 1:30 PM
1761R0001-71	71	1/10/08 10:30 AM – 1:30 PM
1761R0001-72	72	1/10/08 10:30 AM – 1:30 PM
1761R0001-73	73	1/10/08 10:30 AM – 1:30 PM
1761R0001-74	74	1/10/08 10:30 AM – 1:30 PM
1761R0001-75	75	1/10/08 10:30 AM – 1:30 PM
1761R0001-76	76	1/10/08 10:30 AM – 1:30 PM
1761R0001-77	77	1/10/08 10:30 AM – 1:30 PM
1761R0001-78	78	1/10/08 10:30 AM – 1:30 PM
1761R0001-79	79	1/10/08 10:30 AM – 1:30 PM
1761R0001-80	80	1/10/08 10:30 AM – 1:30 PM
1761R0001-81	81	1/10/08 10:30 AM – 1:30 PM
1761R0001-82	82	1/10/08 10:30 AM – 1:30 PM
1761R0001-83	83	1/10/08 10:30 AM – 1:30 PM
1761R0001-84	84	1/10/08 10:30 AM – 1:30 PM
1761R0001-85	85	1/10/08 10:30 AM – 1:30 PM
1761R0001-86	86	1/10/08 10:30 AM – 1:30 PM
1761R0001-87	87	1/10/08 10:30 AM – 1:30 PM
1761R0001-88	88	1/10/08 10:30 AM – 1:30 PM
1761R0001-89	89	1/10/08 10:30 AM – 1:30 PM
1761R0001-90	90	1/10/08 10:30 AM – 1:30 PM
1761R0001-91	91	1/10/08 10:30 AM – 1:30 PM
1761R0001-92	92	1/10/08 10:30 AM – 1:30 PM
1761R0001-93	93	1/10/08 10:30 AM – 1:30 PM
1761R0001-94	94	1/10/08 10:30 AM – 1:30 PM
1761R0001-95	95	1/10/08 10:30 AM – 1:30 PM
1761R0001-96	96	1/10/08 10:30 AM – 1:30 PM
1761R0001-97	97	1/10/08 10:30 AM – 1:30 PM
1761R0001-98	98	1/10/08 10:30 AM – 1:30 PM
1761R0001-99	99	1/10/08 10:30 AM – 1:30 PM
1761R0001-100	100	1/10/08 10:30 AM – 1:30 PM

TABLE 2

**CONCENTRATIONS OF TRITIUM ON SWIPE SAMPLES
BY LIQUID SCINTILLATION ANALYSIS
AP2, REVISION 16; CP4, REVISION 3
SAFETY LIGHT CORPORATION
BLOOMSBURG, PENNSYLVANIA**

ORISE Sample ID	NRC Region I Sample ID	Concentrations, UNCs ^a , and MDCs (dpm/swipe)			
1761R0001-1	1	125	± 26	30	Control
1761R0001-2	2	64	± 22	30	
1761R0001-3	3	8	± 17	30	
1761R0001-4	4	32	± 19	30	
1761R0001-5	5	40	± 20	30	
1761R0001-6	6	76	± 23	30	Tub Probe
1761R0001-7	7	72	± 22	30	
1761R0001-8	8	60	± 21	30	
1761R0001-9	9	68	± 22	30	
1761R0001-10	10	64	± 22	30	
1761R0001-11	11 x	52	± 21	30	Fuel/Tank Area
1761R0001-12	12	109	± 25	30	
1761R0001-13	13	97	± 24	30	
1761R0001-14	14	141	± 27	30	
1761R0001-15	15	314	± 35	30	
1761R0001-16	16	64	± 22	30	Non equipped
1761R0001-17	17	72	± 22	30	
1761R0001-18	18	64	± 22	30	
1761R0001-19	19	60	± 21	30	
1761R0001-20	20	117	± 25	30	
1761R0001-21	21	64	± 22	30	Sign Assembly
1761R0001-22	22	68	± 22	30	
1761R0001-23	23	40	± 20	30	
1761R0001-24	24	92	± 24	30	
1761R0001-25	25	44	± 20	30	
1761R0001-26	26	80	± 23	30	Panel room - 11, down
1761R0001-27	27	56	± 21	30	
1761R0001-28	28	48	± 21	30	
1761R0001-29	29	6,940	± 150	30	
1761R0001-30	30	52	± 21	30	
1761R0001-31	31	502	± 43	30	- cut out 2nd - " 3rd - left ab
1761R0001-32	32	531	± 44	30	
1761R0001-33	33	1,733	± 75	30	
1761R0001-34	34	60	± 21	30	

TABLE 2 (CONT.)

CONCENTRATIONS OF TRITIUM ON SWIPE SAMPLES
BY LIQUID SCINTILLATION ANALYSIS
AP2, REVISION 16; CP4, REVISION 3
SAFETY LIGHT CORPORATION
BLOOMSBURG, PENNSYLVANIA

ORISE Sample ID	NRC Region I Sample ID	Concentrations, UNC ^a , and MDCs (dpm/swipe)			
1761R0001-35	35	109	± 25	30	Dis
1761R0001-36	36	294	± 34	30	
1761R0001-37	37	382	± 38	30	
1761R0001-38	38	44	± 20	30	
1761R0001-39	39	639	± 47	30	
1761R0001-40	40	290	± 34	30	
1761R0001-41	41	374	± 38	30	
1761R0001-42	42	84	± 23	30	HF
1761R0001-43	43	88	± 23	30	
1761R0001-44	44	32	± 19	30	
1761R0001-45	45	64	± 22	30	
1761R0001-46	46	60	± 21	30	
1761R0001-47	47	92	± 24	30	
1761R0001-48	48	64	± 22	30	Lowd. Acc
1761R0001-49	49	32	± 19	30	
1761R0001-50	50	52	± 21	30	
1761R0001-51	51	36	± 20	30	
1761R0001-52	52	64	± 22	30	
1761R0001-53	53	52	± 21	30	
1761R0001-54	54	44	± 20	30	AK
1761R0001-55	55	36	± 20	30	
1761R0001-56	56	41,890	± 360	30	
1761R0001-57	57	122,780	± 620	30	
1761R0001-58	58	212,050	± 810	30	
1761R0001-59	59	32,280	± 320	30	
1761R0001-60	60	97,190	± 550	30	
1761R0001-61	61	14,150	± 210	30	
1761R0001-62	62	7,180	± 150	30	
1761R0001-63	63	133,090	± 640	30	
1761R0001-64	64	11,610	± 190	30	
1761R0001-65	65	28,250	± 300	30	
1761R0001-66	66	35,410	± 330	30	
1761R0001-67	67	46,490	± 380	30	
1761R0001-68	68	105,770	± 570	30	
1761R0001-69	69	46,790	± 380	30	

TABLE 2 (CONT.)

**CONCENTRATIONS OF TRITIUM ON SWIPE SAMPLES
BY LIQUID SCINTILLATION ANALYSIS
AP2, REVISION 16; CP4, REVISION 3
SAFETY LIGHT CORPORATION
BLOOMSBURG, PENNSYLVANIA**

ORISE Sample ID	NRC Region I Sample ID	Concentrations, UNC ^a , and MDCs (dpm/swipe)			
1761R0001-70	70	27,330	± 290	30	F6.15
1761R0001-71	71	93,810	± 540	30	
1761R0001-72	72	147,770	± 680	30	
1761R0001-73	73	3,450	± 100	30	
1761R0001-74	74	17,920	± 240	30	
1761R0001-75	75	193,860	± 770	30	
1761R0001-76	76	230,330	± 840	30	
1761R0001-77	77	290,560	± 950	30	
1761R0001-78	78	17,288,400	± 7,300	30	
1761R0001-79	79	21,004,700	± 8,100	30	
1761R0001-80	80	3,205,500	± 3,100	30	Mg's OR
1761R0001-81	81	97	± 24	30	
1761R0001-82	82	145	± 27	30	
1761R0001-83	83	249	± 32	30	
1761R0001-84	84	265	± 33	30	
1761R0001-85	85	213	± 31	30	Cmg Rm
1761R0001-86	86	88	± 23	30	
1761R0001-87	87	88	± 23	30	
1761R0001-88	88	173	± 28	30	
1761R0001-89	89	121	± 25	30	
1761R0001-90	90	117	± 25	30	b17 b1 b1
1761R0001-91	91	48	± 21	30	
1761R0001-92	92	72	± 22	30	
1761R0001-93	93	117	± 25	30	
1761R0001-94	94	84	± 23	30	
1761R0001-95	95	129	± 26	30	NMC
1761R0001-96	96	76	± 23	30	
1761R0001-97	97	68	± 22	30	
1761R0001-98	98	64	± 22	30	
1761R0001-99	99	97	± 24	30	
1761R0001-100	100	84	± 23	30	

^aUncertainties are based on counting statistics at the 95 percent confidence level.