

UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PENNSYLVANIA 19406-1415

December 18, 2001

Docket No. 04007102 License No. SMB-743

Nigel Morrison Vice President and General Manager Shieldalloy Metallurgical Corporation West Boulevard P. O. Box 768 Newfield, NJ 08344

SUBJECT: INSPECTION 04007102/2001001, SHIELDALLOY METALLURGICAL

CORPORATION, NEWFIELD, NEW JERSEY SITE

Dear Mr. Morrison:

On September 18, 2001, Marie Miller of this office, accompanied by Leslie Fields and Michael Raddatz from the NRC Office of Nuclear Materials Safety and Safeguards conducted a safety inspection at the above address of activities authorized by the above listed NRC license. The inspection was an examination of the status of your facility and your decommissioning planning in relation to radiation safety and to compliance with the Commission's regulations and the license conditions. The inspection consisted of observations by the inspector, interviews with personnel, and a selected examination of representative records. The inspection also included a review of your G-Warehouse Final Status Survey Report dated March 30, 2001, and independent measurements conducted by the inspector Additional information provided in your correspondence dated November 15, 2001, which was received by this office on November 19, 2001, was also examined as part of the inspection. The findings of the inspection were discussed with you and David Smith of your organization, and Carol Berger, your consultant, at the conclusion of the inspection.

Within the scope of this inspection, no violations were identified. We acknowledge, as stated in your notification letter dated August 27, 2001, because principle NRC licensed activities have not taken place for over two years, you will submit a site-wide decommissioning plan on or before September 1, 2002. We also note that your amendment request for NRC to approve release of the G-Warehouse from your facility for unrestricted use was approved by NRC on October 9, 2001.

In accordance with 10 CFR 2.790, a copy of this letter will be placed in the NRC Public Document Room and will be accessible from the NRC Web site at http://www.nrc.gov/NRC/ADAMS/index.html. No reply to this letter is required.

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Your cooperation with us is appreciated.

Sincerely,

Original signed by Ronald R. Bellamy

Ronald R. Bellamy, Chief Decommissioning and Laboratory Branch Division of Nuclear Materials Safety

CC:

David R. Smith, Radiation Safety Officer State of New Jersey

N. Morrison Shieldalloy Metallurgical Corporation

Distribution:

L. Fields, NMSS M. Raddatz, NMSS

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DATE	12/18/01		12/18/01				

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APPENDIX A

MATERIALS DECOMMISSIONING INSPECTION RECORD

FOR FACILITIES NEEDING SIGNIFICANT DECOMMISSIONING EFFORT Region I

Licensee (Name & Address):					Inspection Report No. : 040-07102/00-				040-07102/00-01
Nigel Morrison, Vice President & General Manager Shieldalloy Metallurgical Corporation West Boulevard							License No	o.: [SMB-743
P.O. Box 768 Newfield, NJ 0)8344					_	Docket No.	: (040-01102
Licensee Co	ontact:	David	R. Smith			Te	lephone No	o.: (856)692-4200 x226
Р	riority:	3		Date of L	ast Ins _l	pection:	March 13	, 200	00
Program	Code:	11700		Date of T	his Ins	<u>oectio</u> n:	Septemb	er 18	3, 2001
Type of Inspec	ction:	Χ	Annound	ced		Į	Jnannounce	ed	
		Χ	Routine				Special		
			Initial De	ecommissioni	ng		Reinspection	n of [D <u>ecom</u> missioning
Next Inspe	ection:	Septe	mber 200	02	X_Norm	nal	Reduce	ed	Extended
Brief Descripti	on of In	spectio	n Activitie	es:					
Inspect to dete NRC on March									report submitted to house.
Brief Descripti	on of Fi	ndings	and Actio	n:					
The licensee activities with respect to processing of licensed material for the production of specialty alloys had been inactive for two years and the licensee provided notification in accordance with the requirements of the Decommissioning Timeliness Rule. The licensee intends to submit a site-wide Decommissioning Plan not later than September1, 2002. Because no principle licensed activities occurred since the last inspection, the inspection focused on the licensee's plans for decommissioning and also an survey result of the G-warehouse.(See attached Appendix B)									
Summary of Findings and Action: X No violations cited, clear NRC Form 591 or regional letter issued Followup on previous violations									
Marie Miller, Senior Health Physicist, Inspector: Decommissioning and Laboratory Branch (DLB) (Type Inspector's Name) Decemple Date:				cember 18, 2001					
Approved:			lamy, Chi clear Mat	ief, DLB, erials Safety,	RI		Date:	Dec	cember 18, 2001

[Field notes are to be used by the inspector to assist with the performance of the inspection. Note that all areas indicated in the field notes are not required to be addressed during <u>each</u> inspection. However, for those areas <u>not covered</u> during the inspection, a notation ("Not Reviewed") should be made in each section where applicable. Additionally, all areas covered during the inspection should be documented in sufficient detail to describe what activities and/or records the inspector observed. The fieldnotes to the "Decommissioning Inspection Procedure for Materials Licensees" should be supplemented with: (1) the applicable inspection procedures for operating facilities provided in the Inspection Procedure (IP) 87100 series; and (2) other written documentation of the inspection, as necessary.]

1. SUMMARY OF DECOMMISSIONING STATUS

The checklist below is intended to provide, in a written outline format, summary documentation of the status of the licensee's facility in the decommissioning process. This documentation will be filed as part of the inspection report. The inspector should use this information to develop each inspection plan(s) for the various stages of decommissioning, namely, before dismantlement, during dismantlement and site remediation, and after site remediation.

A.	Licensee ceased operational program	Χ	Υ		N		
B.	Required decommissioning financial assurance mechanisms in place.	Х	Υ		N		
C.	Decommissioning Plan (DP) required.	Х	Υ		N		
D.	Licensee final survey required.		Υ	Х	N		
E.	NRC confirmatory survey required.		Υ	Х	N		
F.	NRC closeout inspection required.		Υ	Х	N		
G.	Licensee doing decommissioning planning and preparation before dismantlement		Υ	Χ	N		
H.	Licensee actively remediating site.		Υ	Χ	N		
l.	Licensee completed site remediation.		Υ	Χ	N		
Description of Facility Status:							
No principle licensed activities. Licensee conducting quarterly surveys and quarterly radiation safety committee meetings. No source material received or transported since last inspection.							

2. <u>INSPECTION OF KEY DECOMMISSIONING ACTIVITIES</u>

The following is a generic checklist of major licensee activities occurring at various stages of decommissioning. From this generic checklist and from facility-specific activities you identify, develop the set of licensee activities to be inspected - for each individual inspection throughout the decommissioning process. Plan to inspect licensee activities that present potential high-risk conditions. Then apply the standard health and safety inspection areas in Section 3 of these fieldnotes (taken from the applicable 87100 series IP for the licensee's operational program) to the specific licensee decommissioning activities that are being inspected.

To complete the licensee activities checklist, the inspector will need to obtain information from the Licensing Project Manager, review the DP, make observations at the licensee's facility, review licensee records, take measurements and samples of contaminants, and undertake other investigative measures, to determine whether the licensee is meeting all regulatory and DP commitments for each decommissioning activity the licensee is performing.

A.	LICENSEE ACTIVITIES INSPECTED BEFORE DISMANTLEMENT	Х	N/I	N/A

1.	Licensed material used during operations has been removed from site.	Y N				
2.	Facility license conditions are in place and met by licensee.	Y				
3.	Site security and control of contaminated material being maintained in compliance with 10 CFR 20.1801 and 20.1802.	Y N				
4.	Support systems and services (e.g., lighting, water supply) are in place.	YN				
5.	Decommissioning schedules are consistent with timeliness requirements in 10 CFR 30.36, 40.42, and 70.38.	YN				
6.	Licensee's recordkeeping is consistent with 10 CFR 30.35, 40.36, and 70.25.	YN				
7.	Financial assurance requirements are being maintained in accordance with 10 CFR 30.35, 40.36, and 70.25.	YN				
8.	Licensee is conducting site characterization in accordance with applicable radiation protection procedures.	Y N				
9.	Construction of new site features (e.g., roads, rail spurs, staging areas, sediment control ponds) conforms to DP and does not compromise health and safety of workers and public.	Y N				
10.	Licensee activities conform to specific license conditions and licensee programs and procedures.	YN				
11.	Other licensee activities(describe below):					
Basis	for findings:					
	LICENSEE ACTIVITIES INSPECTED DURING DECONTAMINATION, DISMANTLEMENT, AND SITE REMEDIATION	X N/I N/A				
1.	Site security and control of contaminated material being maintained in compliance with 10 CFR Part 20.	YN				
2.	Decontamination and dismantlement of structures are being performed consistent with DP and sound industry practice (structures include buildings, utilities, treatment laggons, etc.)	Y N				
3.	(structures include buildings, utilities, treatment lagoons, etc.). Decontamination and remediation of the following are being performed consistent with DP and sound industry practice:	YN				

	a.	Soil.	Y
	b.	Sediment.	YN
	C.	Surface waters.	YN
	d.	Groundwater.	YN
	e.	Other mediums (describe below):	YN
4		ensee release and disposal of decommissioning wastes are sistent with DP and approved by NRC for:	Y N
	a.	Liquid wastes (e.g., groundwater, surface water, liquid from treatment ponds, process liquids).	YN
	b.	Solid wastes (e.g., building materials, process and other facility equipment, concrete rubble, soil).	Y N
	C.	Other wastes (describe below):	YN
5.		nporary, on-site storage of low-level radioactive wastes from ommissioning meets license conditions and guidance in IP	Y N
6.		kaging and shipment of radioactive waste materials meet	$\square_{Y}\square_{N}$
		uirements in 40 CFR Parts 173-178 and 10 CFR Part 71.	
7.		storation of site-Licensee has restored site to meet license ditions and NRC-approved plans.	YN
8.		ensee survey of material and equipment for free release icient to demonstrate compliance with release criteria.	YN
9.	Oth	er licensee activities:	$\square_{Y}\square_{N}$
Basis	for F	Findings:	
		NSEE ACTIVITIES INSPECTED AFTER COMPLETION OF REMEDIATION	N/I N/A
1.		nsee has submitted NRC Form 314 for disposition of licensed erial in accordance with 10 CFR 30.36, 40.42, and 70.38.	XYN
2.		nsee's final survey program is acceptable (see Appendix B for ection items for final surveys).	XYN

	3. NRC confirmatory survey performed.					N		
	 Site maintenance activities (if any, for restricted use) conform to license conditions and NRC-approved plans and are in place and functional. 					N		
	5. Other licensee activities:					N		
		Distribution of licensed raw materials and storage of licensed materials	als.					
_	Basis for Findings:							
	The licensee submitted a FSS report for G-Warehouse. Based on a review of the final survey report, observations and confirmatory measurements the inspector determined that the licensee had adequately implemented its radiation safety procedures for release criteria. This remediation is not a final action and the licensee retained ownership of the area. By letter dated October 9, 2001, the NRC approved the licensee's amendment request for unrestricted use release of this portion of the licensee's facility.							
Identir cover- insper within activit items Minin decor DP (A licens	INSPECTION OF STANDARD HEALTH AND SAFETY AREAS FROM THE OPERATIONAL INSPECTION PROGRAM Identify the standard inspection areas (from the inspection program of the licensee's operational program) to be covered during each decommissioning inspection. [Inspection areas A through L below correspond to the typical inspection areas in the 87100 series IPs that are applicable to decommissioning.] Then identify the new activities within the standard inspection areas undertaken by the licensee during decommissioning. Some of the new activities given below, as well as any other activities the inspector identifies, should be considered inspection items under the general set of health and safety inspection areas used in the applicable 87100 series IP. Minimum inspection areas for the initial decommissioning inspection: decommissioning organization (A.1); decommissioning activities in compliance with NRC-approved DP (A.2); licensee procedures for implementing the DP (A.3); Radiation Safety Committee (RSC) and Radiation Safety Officer (RSO) responsibilities (A.4); and the licensee's decommissioning training program (E.1).							
	1.	Describe the licensee's decommissioning organizational structure:						
	Radiation Safety Officer and Radiation Safety Committee make decisions regarding decommissioning. Consulting firm used to perform survey and document survey reports.							
	2.	Licensee is performing decommissioning activities in compliance with its approved DP.		Υ	X ¹	N		
		Licensee has implemented procedures for the decommissioning activities identified in the DP.	Х	Υ		N		
		The RSC and RSO fulfill license requirements to deal with all	Х	Υ		N		

3.

decommissioning activities.

	Basis for Findings:								
	RSC meets and documents decisions regarding limited decommissioning activities. Licensee implementing release criteria procedures which were approved by NRC. Note(1): A DP is not required for the decommissioning activities completed to date.								
В.		FACILITIES							
	 Describe, from field observation, the licensee-identified facilities and outdoor areas to be decommissioned: 								
		Not Applicable. No remediation required.							
	2.	The licensee's remediation plan includes all the contaminated Y N facilities and areas on-site and off-site							
	3.	All essential systems and services (e.g., electrical power, water supply, communications systems) are in place and functional for the planned decommissioning activities.							
	4.	Licensee's emergency plan is in place and operative for the duration of decommissioning.							
	5.	For complex sites needing site characterization, describe the key site characterization activities to be performed by the licensee to determine the nature and extent of contamination:							
	6.	Licensee's characterization activities performed in conformance Y N with good industry practice.							
	Bas	is for Findings:							
C.		EQUIPMENT AND INSTRUMENTATION							
	1.	Survey instruments are applicable to contaminants of interest. X Y N							
	2.	Use of survey instruments appropriate for site.							
_	Basi	s for Findings:							
	Con	sulting firm provided appropriate survey instruments and met screening criteria.							
_									
Α.		MATERIALS							

Radioactive materials licensed during operations have been

removed offsite; residual quantities conform to license conditions.

1.

	2.	Security and control of licensed materials, including contaminated areas, is being maintained.	X		N		
_	Basi	s for Findings:					
	All li	censed material remains onsite. Licensee plans to decommission usi	ng in-situ	disposa	al.		
E		TRAINING					
	1.	Licensee has developed training program for new decommissioning activities (e.g., demolition of structures, excavation of soil); program is adequate.	X		N		
	2.	Training program being effectively implemented.	XY		N		
	Basi	s for Findings:					
	Lice	nsee using experience technicians and health physics professionals for	or surveys).			
F.	•	AREA RADIATION SURVEYS AND CONTAMINATION CONTROL					
		Area surveys are being performed in areas being decommissioned.	X		N		
		Where active remediation (e.g., demolition of structures, excavation of soil) is being performed, radiation levels in unrestricted areas do not exceed 2 mrem in any one hour.	XY		N		
	Basi	s for findings:					
	All re	esults were consistent with background.					
G		RADIATION PROTECTION					
		The licensee's approved health physics program is being implemented in the field for new decommissioning activities.	X		N		
		Site security and control of contaminated material are in compliance with 10 CFR 20.1801 and 20.1802.	X		N		
	Basi	s for findings:					
	Areas were posted as required. Access to site controlled by entering through reception area into fenced property.						

H. RADIOACTIVE WASTE MANAGEMENT/EFFLUENTS/ENVIRONMENTAL MONITORING				
	1.	Offsite disposal of decommissioning wastes conforms to free release criteria and disposal site requirements.	N/I Y N	
	2.	All new effluent releases conform to DP and applicable regulations.	N/I Y N	
	3.	The licensee's environmental monitoring program is being implemented in conformance with the DP and all applicable limits are being met.	N/I Y N	
	4.	Temporary storage/staging areas for radioactive wastes from building demolition, equipment dismantlement, soil excavation, etc., are adequately posted and protected.	N/ A	
	Bas	sis for findings:		
		vey results documented in final survey report. Results below site specification for the sum of the	fic criteria	
I.		RECORDKEEPING FOR DECOMMISSIONING		
	1.	Copies of the licensee's decommissioning cost estimates and funding methods are on file.	XYNN	
	2.	Licensee has adequate records for decommissioning activities performed (e.g., for decontamination and dismantlement of structures; decontamination and remediation of soil, sediment, surface waters, groundwater; surveys of remediated facilities).	X Y N N	
	3.	Licensee's financial assurance conforms with the financial assurance requirements of NRC-approved possession limits and NRC regulations.	X Y N N	
_	Bas	is for Findings:		
	The	commissioning Funding Plan (DFP)submitted to NRC on October 19, 19 adequacy of the licensee's financial assurance requirements will be re licensing action.		
J.		TRANSPORTATION		

1. Describe the licensee's program to package and ship decommissioning waste materials:

		No shipments made during since last inspection period.					
	2.	Licensee's program meets all applicable 10 CFR and 49 CFR					
T	Basis for Findings:						
	Area was not inspected.						
K.		POSTING AND LABELING					
	1.	All contaminated areas, waste processing areas, and waste handling areas are posted in conformance with regulations.					
	2.	Packaged radioactive waste materials are labeled in accordance with regulations.					
·	Basis for Findings:						
		ector observed radioactive material postings. Waste stored in SMSY. Waste not caged for disposal.					
L.		OCCUPATIONAL HEALTH AND SAFETY					
	1.	Describe the occupational health and safety observations made at the licensee's facilities:					
		Area not inspected					
	2.	Licensee and Occupational Safety and Health Administration were informed of occupational health and safety issues observed during the inspection.					
	Basis for Findings:						
4.		VIOLATIONS, NON-CITED VIOLATIONS, FOLLOWUP ITEMS, AND OTHER ISSUES					
) the requirements and (2) how and when the licensee violated the requirement. For tions, indicate why the violation was not cited. Briefly describe followup items and other					
None.							

4.

APPENDIX B MATERIALS DECOMMISSIONING INSPECTION RECORD REGION I

FINAL SURVEY PROGRAM INSPECTION FIELD NOTES

Licensee (Name & Address):	Inspection Report No. :	040-07102/00-01
Nigel Morrison, Vice President & General Manager Shieldalloy Metallurgical Corporation	License No.:	SMB-743
West Boulevard P.O. Box 768 Newfield, NJ 08344	Docket No. :	040-01102

1. STATUS OF LICENSEE FINAL SURVEY

Α.	Final survey report submitted to the NRC.	(X)Y()N
B.	Previous inspection(s) of licensee final survey program conducted.	()Y(X)N
C.	Final survey report not submitted, licensee final survey in progress.	()Y(X)N
D.	Final survey plan submitted and approved by NRC license reviewer.	(X) Y () N

Basis for Findings: License letter dated March 30, 2001, submitted Final Status Survey of G-Warehouse in support of its amendment request to remove this facility from the listing of permanent restricted areas. This amendment request was approved by NRC letter dated October 9, 2001. Licensee also provided additional information to support its Final Status Survey documentation by letter dated November 15, 2001.

2. <u>INSPECTION AREAS FOR LICENSEE FINAL SURVEYS</u>

Notes:

- 4. For facilities where an approved decommissioning plan (DP) is required, inspections should be made against commitments in the DP and the licensee's final survey plan (which would have been approved by the NRC license reviewer during license review). For facilities where a DP is not required, inspections should be made against NRC regulations, license conditions, and applicable guidance in NUREG/CR-5849.
- 5. For facilities that require a significant decommissioning effort, all the inspection areas listed below should be inspected while the licensee's final survey program is in progress. For small, licensed facilities that do not require a significant decommissioning effort, only some of the inspection areas below may apply, and it may not be practicable to inspect these areas until after the licensee's final survey is completed and the licensee's final survey report has been submitted to NRC.
- 6. Inspection of a licensee's final survey may include independent confirmatory measurements by the inspector or NRC contractor. The extent of the confirmatory measurements, and whether the use of an NRC contractor is warranted, depends on a

number factors that are discussed in Section 2.C. In most cases, minimal confirmatory surveys should be sufficient.

7. The inspector should identify which inspection areas listed below are performed during each inspection.

A. SITE CONDITIONS AT TIME OF LICENSEE FINAL SURVEY

Site has been decontaminated/remediated in accordance with DP or site procedures.
 () Y (X) N

Basis for Findings: DP not required. No remediation was necessary.

B. LICENSEE FINAL SURVEY PLANS AND PROCEDURES

1.	Conta	minants:		
	a.	Licensee has identified all potential contaminants.	(X) Y () N	
	b.	Licensee has specified acceptable release criteria.	(X) Y () N	
	C.	Licensee has clearly documented the basis for any	, , , ,	
		alternate criteria, if applicable.	(X) Y () N	
2.	Organization and Responsibilities:		. , . ,	
	a.	Survey program documented.	(X) Y () N	
	b.	Survey staff responsibilities and qualifications		
		documented.	(X) Y () N	
3.	Quality Assurance/Quality Control: Not Inspected			
	a.	Organization	()Y()N	
	b.	QA Program	()Y()N	
	C.	Operational Procedures	()Y()N	
	d.	Document Control/Records Management	()Y()N	
	e.	Equipment Maintenance and Control	()Y()N	
	f.	Audits and Corrective Action	()Y()N	
	g.	Independent third party measurement QC	()Y()N	
4.	Laboratory analytical procedures, including QA/QC,			
	acceptable, and results adequately documented. () Y () N			
5.	Field Survey Instrumentation:			
	a.	Survey instrumentation is appropriate for		
		contaminants of interest and site conditions.	(X)Y()N	
	b.	Licensee has properly calibrated survey		
		instrumentation.	(X) Y () N	
	C.	Instrument operational procedures adequate	(X)Y()N	

Basis for Findings:

The licensee's FSS and letter dated November 15, 2001, provided the required information in accordance with MARSSIM guidance. No residual radioactive source material was identified. Contamination was generally consistent with background and well below release criterion.

Licer	see is performing the survey in conformance with	
the a	pproved survey plan (or regulations, applicable	
guida	ince in NUREG/CR-5849, and good industry practice,	
if NR	C approval of a survey plan was not required):	
a.	All potentially contaminated locations on-site	
	and off-site have been properly classified as	
	"affected" or "unaffected" areas.	(X) Y () N
b.	"Survey Units" have been properly selected.	(X) Y () N
C.	Background determination acceptable.	(X) Y () N
d.	Number and location of measurements and samples	, , , , ,
in each "surv	vey unit" is acceptable.	(X)Y()N
e.	Surface scan procedures and percent coverage	
	acceptable.	(X)Y()N
f.	Surface activity measurement procedures acceptable.	
	(1) Direct.	(X) Y () N
	(2) Removable.	(X) Y () N
g.	Exposure rate measurement procedures acceptable.	(X) Y () N
h.	Surveying and sampling of the following media	
	conducted as appropriate:	
	(1) Soil and sediment, surface and subsurface.	(NA)
	(2) Groundwater.	(NA)
	(3) Surface water.	(NA)
	(4) Buildings, interiors and exteriors.	(X) Y () N
	(5) Equipment and systems.	(X) Y () N
	(6) Grounds.	(NA)
	(7) Other media:	(NA)
		_

Basis for Findings:

The licensee's contractor used gas-flow proportional floor and wall detector and exposure rate meters. No volumetric material was required based on classification of the area and scan surveys.

7. Licensee's Final Survey report sufficient to demonstrate that release criteria have been met.

Note: The final survey report will, in general, not be available for review at the time of an "in-process" inspection of a final survey program. However, at the end of the survey project, after the final survey report has been submitted, the inspector should ensure that these areas have been reviewed by either the license reviewer or project manager. If questions remain as to whether these areas have been satisfied by the licensee, or the final survey report has not been reviewed, the areas listed below should be addressed during the inspection.

a. Survey results demonstrate, with 95% confidence, that average residual contamination in each "survey unit" is less than release criteria.

b. Survey results demonstrate that the hot-spot criteria in NUREG/CR-5849 have been satisfied. (x)Y()NElevated survey results investigated by licensee. C. (NA) Unaffected "Survey Units" reclassified, as d. necessary, based on survey results. (NA) Survey report provides sufficient documentation e. of procedures and QA/QC. (NA) f. Survey report provides diagrams or other documentation identifying survey locations. (x)Y()N

Basis for Findings:

Information documented in FSS and licensee letter dated November 15, 2001. Latter letter provided one page from survey that was not included in the original FSS documentation package.

C. NRC CONFIRMATORY SURVEY

C.

1. Evaluate whether a confirmatory survey is justified.

	•		
	a.	Significant, unresolved, weaknesses identified during	
		the inspection of the licensee's final survey program.	() Y (X) N
	b.	Repetitive violations.	()Y(X)N
	C.	Significant public or Congressional interest.	() Y (X) N
	d.	Small site where an in-process inspection not practical.	()Y(X)N
2.	If a c	onfirmatory survey is justified, determine if an NRC	
	contr	actor should be used. Meeting one or more of the three	
	criter	ia listed below will, in general, justify the use of a contractor.	
	a.	Licensee's final survey involves unique or	
		complex technical issues.	()Y(X)N
	b.	Confirmatory survey is expected to require	., . ,
		more than a man-week effort to complete field	
		surveys and sampling.	()Y(X)N

() Y (X) N

Basis for Findings:

Residual radioactive material of concern was Th-232 in equilibrium with progeny and U-238 in equilibrium with progeny. The licensee demonstrated by alpha/beta and alpha measurements that the screening level of 600 disintegrations per minute per 100 cm² was not exceeded. Further, NRC conducted a screening survey (sixteen bias measurements) on September 18, 2001. These measurements were made using a Ludlum 43-8,Zinc-Sulfide (#054818) probe with Ludlum Model 2221 scaler (#054828), and Ludlum Model 19 (#009498) microR meter for exposure measurement. All measurements were consistent with background.

Confirmatory survey is very high priority that cannot

be completed by NRC staff in a timely manner.

END