R2/8/3 :- 2 8/25/00

REGION II FUEL FACILITIES BRANCH INSPECTION PLAN Revision Date: March 2, 2000

Inspe	ection of: We	sting	house		on _August 21-25, 2000	. Inspe	ection Report Numb	er. <u>70-1151/2000-005</u>
			Licensee		Dates (From → To)			
Total	on site hour	s ant	icipated by all insp	ector	rs: _72 Total back-shift hours antic	ipated b	y all inspectors:	<u>.</u>
	TYPE		TIMING		FOLLOW UP		NOTIFICATION	REPORT
Х	Routine		Back Shift		Allegations (Plan attached)		Announced	Integrated
	Special	X	Normal Shift	X	Events (Event Evaluation Attached)	<u> </u>	Unannounced	X Non-integrated
	Team	L	Both Shifts	X	Open Items (List Attached)			
Lead	Inspector: _	Davi	d Ayres		Accompanying Inspector(s):S	heryl Bu	rrows	
Licon	soo Contoo		on Goldbach				803-6	347-3586
Lice	See Contact	٠ـــ	Nai Nai	ne	·			none Number
							•	
Mote	: Sleep Inn	- Co						776-6263
			Name ar	nd Lo	cation		i elepi	none Number
Refer exper	to the Targe nditures (con dure numbe	eting nplete r. Th	Information also foed hours) which are	or info e ma ether	out those areas previously inspected duri ormation on planned expenditures by insp intained by the Project Inspectors for date with the planned expenditures by proceds a critical to assuring that we are appro	ection p a on yea ure num	Inspect procedure number, a per to date hours cha ber should be enter	rged by inspection red on the reverse side of
with to be co to be will be impo	he Primary I nducted. Th inspected a e inspected a rtant becau	nsper ne pur nd to and ir se he	ction Areas (Safet rpose of the PIM r provide insights to dicate the standa ere is where the r	y Ope eview appi rd ag real fo	isues Matrix (for the period since the last prations, Safeguards, Radiological Control is to identify trends, strengths, and weak repriately focus the inspection focus. In a ainst which performance will be judged. It pocus of the inspection is developed. It led. In that case the Targeting Information	ls, and/o inesses in attach Note tha needs t	or Facility Support) in licensee perform ment, list the perfo at this part of the p to be consistent w	in which inspection will ance in the general areas mance measures that plan is the most with the Targeting
drive with 1 tems provi	and are of the Project I he Project I he bring back de you with	the fo	orm NFSOIL2000 ector to see if the ormation for the i osure writeup to	wpd. re are nspe inclu	d annotate the issues that will be reviewed. Note: This is critical to meeting come items opened by other inspectors the ctor who opened the item to review in de in your inspection report. If there are uch on the list, fill out a closure sheet and	nitment at shoul the offic re items	is to the Regional d be ready for clo- ce for closure. Th for which closure h it to Janice Kirby	Administrator. Check sure. If there are such at inspector will
sched nsped nspe	tule). <u> </u>	ab FFE	Note: Thove schedule, it i	is is s not	e Main Library and folder /Region II/Fu critical in meeting Region II Operating on the Master Inspection Schedule me concurred in by the Project Inspector	Plan ge aintaine	oals. If this inspected by NMSS. To a	ction is not on the
-			ns from the Proje I Framatome Cog		spector (Ayres for General Electric and W Fuels):	estingh/	ouse; Gloersen for	NFS; and Seymour for
rom a	n up-to-date ded during t	PIM his in	, 2) planned inspe spection is consis	ction tent v	ction focus is consistent with branch target is based on acceptable performance mea with the inspection effort goals established ring the fiscal year. Project Inspector's Inspector's Inspector's Inspector's Inspector	asures, a d in the c	and 3) direct inspec	tion effort to be

•	uctions from Branch	omer.		·	Original to Branch Secretary With Attachments To	Copies
					Inspector(s)	
					Project Inspector	
Branch Chief Approval:		<u> </u>		Į.	Branch Chief	
	Signature	Date			G:\PLANS\INSPEC	TI.PLA
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Region II Fuel Facilities Branch Inspection Areas

	I. SAFETY OPERATIONS	Planned H	lours: 44 Completed Hours: Hours This inspection
		R1.01	Radiation Protection Program Implementation
O3	Plant Operations (88020)	R1.02	Radiation Protection Program Procedures
Planned I	Hours: 70 Completed Hours: 49.5 Hours This Inspection: 21	R1.03	Radiation Protection Program Equipment
O3.01	Conduct of Operations	R1.04	External Exposure Control
O3.02	Facility Modifications and Configuration Controls	R1.05	Internal Exposure Control
O3.03	Implementation of Process Safety Controls	R1.06	Respiratory Protection
O3.04	Implementation of Storage Safety Controls	R1.07	Postings, Labeling, Control
O3.05	Implementation of Safety Controls for Material	R1.08	Surveys
	Handling and Movement	R1.09	Notifications and Reports
O3.06	Housekeeping	R1.10	Implementation of ALARA Program
O3:07	Review of Previous Events	R1.11	Management Oversight of Program
O3.08	Follow up on Previously Identified Issues	R1.12	Follow up on Previously Identified Issues
04	Fire Safety (88055)		
Planned H	fours: 28 Completed Hours: Hours This Inspection:		
O4.01	Fire Protection Program Management/Organization		
O4.02	Review of Documentation Related to the Fire		
	Protection Program, Insurer's Audits and Safety		
	Committee		
O4.03	Building Design, Construction, and Ventilation System		
O4.04	Fire Safety of Processes, Equipment, and Storage		
	Areas		
O4.05	Fire Protection Systems		
O4.06	Fire Hazards Analysis		
O4.07	Pre-Fire Plan		
O4.08	Fire Brigade Training		
O4.09	Fire Emergency Drills		
O4.10	Off Site Support		
04.11	Follow up on Previously Identified Issues		
O 5	Management Organization & Controls (88005)		
Planned H	ours: 14 Completed Hours: 14.5 Hours This Inspection:		
	O5.01 Organizational-Structure		
O5.02	Procedure Controls		•
05.03	Internal Reviews and Audits		
O5.04	Safety Committees		
O5.05	Quality Assurance Programs		
O5.06	Follow up on Previously Identified Issues		

II. SAFEGUARDS

S2	Security (81000 series)
Planned Ho	ours:0_ Completed Hours: Hours This Inspection:
S2.01	Management, Staffing, Plan and Procedures, Audit
\$2.02	Barriers, Locks, Equipment, Hardware, Maintenance
S2.03	Alarm Stations Functions, Compensatory Measures,
	Power Supplies
S2.04	Access Controls
S2.05	Fitness For Duty, 10 CFR Part 26
S2.06	Training/Qualification Appendix B, Contingency
	Appendix C, Tac-Exercises
S2.07	Records, Reports, Event Logs Part 73.71
S2.08	Shipments
S2.09	Protection of Information, Parts 25 and 95
S2.10	Follow up on Previously Identified issues

III. RADIOLOGICAL CONTROLS

R1 Radiation Protection (83822)

	R2 Environmental Protection (88045 and
	88104)
	ours: 16 Completed Hours: 18 Hours This Inspection:
R2.01	Monitoring-Program-Implementation
R2.02	Monitoring Program Results-
R2.03	Management Audits, Inspections and Controls
R2.04	Quality Control of Analytical Measurements
R2.05	Independent Measurement Verification (Sample Splitting)
R2.06	Monitoring Program Reports
R2.07	Decommissioning Activities
R2.08	Follow up on Previously Identified Issues
R3	Waste Management (84850, 84900 and 88035)
Planned Ho	urs: 24 Completed Hours: 20 Hours This Inspection:
R3.01	Liquid Effluent Program Controls, Procedures and
	Instrumentation
R3.02	Liquid Effluent Monitoring Results
R3.03	Airborne Effluent Controls, Procedures and
	Instrumentation
R3.04	Airborne Effluent Monitoring Results
P3.05	On site Waste Storage
P3.06	Waste-Classification
R3.07	Waste Form and Characterization
R3.08	Waste Shipping (Manifests, Labeling, and Surveys)
R3.09	Tracking of Waste Shipments
R3.10	Management Control of Liquid & Airborne Effluents and Solid Waste
R3.11	Quality Assurance Programs
R3.12	Follow up on Previously Identified Issues
R4	Transportation (86740)
Planned Ho	urs: 24 Completed Hours: 4 Hours This Inspection:
R4.01	Preparation of Packages for Shipment
R4.02	Delivery of Completed Packages to Carriers
R4.03	Receipt of Packages
R4.04	Certificates of Compliance
R4.05	Management Controls
R4.06	Records and Reports
R4.07	Follow up on Previously Identified Issues
	IV. FACILITY SUPPORT

Follow up on Proviously Identified Issues F3 **Emergency Preparedness (88050)** Planned Hours: 48 Completed Hours: _ Hours This Inspection: F3.01 Review of Program Changes F3.02 Implementing Procedures Training and Staffing of Emergency Organization F3.03 F3.04 Off site Support F3.05 Drills and Exercises F3.06 **Emergency Equipment and Facilities** F3.07 Follow up on Previously Identified Issues

F1	Maintenance/Surveillance (88025)
Planned Ho	ours: 26 Completed Hours: 20 Hours This Inspection: 6
F1.01	Conduct-of-Maintenance
F1.02	Work-Control Procedures
F1.03	Work-Control Authorizations
F1.04	Qualifications of Maintenance Personnel
F1.05	Management Audit of Maintenance
F1.06	Surveillance Testing
F1.07	Calibrations of Equipment
F1.08	Follow up on Previously Identified Issues
F2	Training (88010)
	Training (88010) burs: 18 Completed Hours: 8.5 Hours This Inspection: 9
Planned Ho	ours: 18 Completed Hours: 8.5 Hours This inspection: 9
Planned Ho	nurs: 18 Completed Hours: 8.5 Hours This Inspection: 9
Planned Ho F2.01 F2.02	ours: 18 Completed Hours: 8.5 Hours This Inspection: 9 10 CFR 19.12 Training General Nuclear Criticality Safety Training

F2.06

On-the-job Training

Below is an exerpt from my inspection plan that discusses the various areas to be inspected. I thought it would be good for us to look closely at all of the controls on the ADU process (converting UF6 to UO2 powder). This system has a large number of criticality and radiological safety controls, particularly administrative controls, that should be reviewed.

Inspection Plan 2000-005

O3 Plant Operations

- O3.01 <u>Conduct of Operations</u> Verify that operations in are being performed per approved procedures and posted instructions. Concentrate on ADU operations.
- O3.02 <u>Facility Modifications and Configuration Controls</u> Verify that modifications to the ADU operations have been properly reviewed, approved, and documented. Review plant drawings and verify that they are consistent with the plant configuration.
- O3.03 <u>Implementation of Process Safety Controls</u> Verify that controls identified in the safety analyses for ADU processing are being implemented in plant operations, particularly administrative controls in operating procedures.
- O3.06 <u>Housekeeping</u> Verify that housekeeping is adequate to provide for route of emergency egress and to minimize fire hazards.
- O3.07 Review of Previous Events Review the licensee's investigation and corrective actions in response to Event #37189 concerning inadequate procedure for handling contaminated HEPA filters.
- O3.08 Follow up on Previously Identified Issues Follow progress on addressing IFI 99-06-01 concerning potential disabling of UN tank concentration monitoring system and IFI 00-02-01 concerning monitoring excessive ventilation in glove boxes.

F1 Maintenance/Surveillance

- F1.06 <u>Surveillance Testing</u> Verify surveillance testing of engineered safety controls in the ADU process area are being adequately performed.
- F1.07 <u>Calibrations of Equipment</u> Verify calibrations of equipment to measure safety parameters in the ADU process area are properly calibrated at an adequate frequency.
- F1.08 Follow up on Previously Identified Issues Verify that corrective actions associated with VIO 00-02-02 concerning inadequate configuration management of the uranyl nitrate piping system have been completed.

F2 Training

- F2.01 <u>10 CFR 19.12 Training</u> Verify that general employee training meets 10 CFR 19.12 requirements.
- F2.02 <u>General Nuclear Criticality Safety Training</u> Verify that general nuclear criticality safety training meets license requirements.

Excerpts from G:\SCHEDULE\00TARGETrev1.wpd

E. Management Controls (88005)

Westinghouse (Estimated FY 2000 level: 14 hours)

De-emphasize computerized procedure system but keep an eye open for hard copies of procedures that are out of date. Emphasize timely root cause evaluations by licensee and implementation of corrective actions. Also to be emphasized are: management controls over non-routine work and development of procedures and policies to assure management expectations are being met. Maintenance of documents under the document control system has been a problem in the past and should be reviewed.

F. Operations Review (88020)

Westinghouse (Estimated FY 2000 level: 70 hours)

The program emphasis should be on the implementation of safety controls on a plant-wide basis. Particular attention should be given to the robustness of control implementation. We have seen indications that administrative controls are not always included in approved operating procedures and operators are not always trained on the implementation of those controls. In addition, attention should be directed to areas where geometry controls are used. There have been indications that the development of the Criticality Safety Evaluations have not always involved a review of source evaluations resulting in the belief that geometries were favorable when they were not. ISAs should be used to the maximum extent possible.

T. Operator Training (88010)

Westinghouse (Estimated FY 2000 level: 18 hours)

Emphasis on training associated with new or non-routine work. Also, the 10 CFR 19.12 training was not found to be impressive. Emphasis on training of operators where such operators have served as safety controls. The licensee has not excelled in this area in the past.

U. Maintenance/Surveillance (88025)

Westinghouse (Estimated FY 2000 level: 26 hours)

Emphasis on maintenance and surveillance of safety related controls. This has been particularly troublesome for the licensee in the past. Also, emphasis on assuring that controls requiring surveillance and testing are entered in the MAPCON.

DAVID AYRES BI-WEEKLY OPERATIONS STATUS REPORT

Don Goldbach, Manager Environment, Health & Safety

Thursday July 27, 2000

UNUSUAL INCIDENTS

<u>UPDATE</u>: We have two uranyl nitrate tanks contaminated with Gadolinium. The source <u>was</u> old archive pellets which were disposed of. Half of one tank was converted to UO₂ before the contamination was detected. <u>The uranyl nitrate and UO₂ powder will be blended off with non-contaminated nitrate and UO₂ powder, respectively.</u>

<u>UPDATE</u>: Three pellet operators were put on restriction due to high airborne at the Pellet Line 3 roll hood. The source of the contamination was the changeout of the granulator screen during that shift. The operators involved were relatively new and were retrained on proper methods for handling this work.

<u>UPDATE</u>: On February 25th, a notification was made to the NRC in accordance with 10CFR70.50(b)(1) due to contamination on a concrete pad outside the plant on the south side (behind the UF6 Bay wall). <u>All of the 162 sections were "released". The pad is to be sealed and this effort will be complete.</u>

A 24 hour notification was made to NRC Operations Center on July 26, 2000 as a result of the discovery that a "filter processing procedure was not written in accordance with the Criticality Safety Evaluation." A copy of the report was also made to Region II and to Headquarters. The Incident Review Committee has discussed this incident and althought there was no loss of double contingency protection, this event has been determined to be safety significant and a root cause is being scheduled.

On July 27, 2000, two operators were lifting a fully loaded bulk container when it suddenly fell. An experienced operator was in the process of training a new operator to do this task. The bulk container is lifted by using a device called a "strongback" which allows the overhead crane to lift the container from the floor to the platform above. The experienced operator was operating the overhead crane. He had positioned the operator in training on the platform above in order to "spot" the container on the platform station. The operator raised the full container from the floor and when it had been lifted approximately 8-10 feet from the floor, the "strongback" separated from the crane hook and the container fell to the floor. No injuries occurred. This incident has also been reviewed by the Incident Review Committee and has been determined to be safety significant. Additional actions are being taken prior to allowing restart of the bulk blending area to ensure employee safety. A root cause will be conducted to learn more from this incident and lessons learned will be applied in other areas of the plant, where applicable.