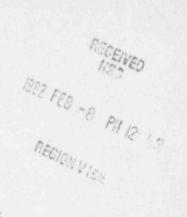
Energy Sys. ems Group 8900 De Soto Avenue Canoga Park, California 91304

> Telephone: (213) 341-1000 TWX: 910-494-1237 Telex: 181017





February 5, 1982

In reply refer to 82ESG-726

Mr. L. R. Norderhaug, Chief Safeguards Branch, Region V Nuclear Regulatory Commission 1450 Maria Lane, Suite 260 Valnut Creek, California 94596

Dear Mr. Norderhaug:

Your letter of January 15, 1982, which reported on inspections conducted by NRC Region V personnel on October 19-23, November 2-6, 16, and 17, and November 30-December 4, 1981, of activities authorized under NRC License SNM-21, indicated one activity which was deemed to be a Severity Level V violation. This will summarize our actions to correct the apparent item of noncompliance.

A special training class was conducted on November 24, 1981, for all personnel directly involved in special nuclear material inventories and the application and control of tamper seals. The instruction in this class reviewed the requirements for verification of the integrity of all tampersafing seals during physical inventories of SNM and emphasized that not only items with improperly applied tamper seals but also those with broken or damaged seals must be remeasured and resealed properly. It was also emphasized that both seal identity and integrity must be inspected and verified during inventory of sealed items, even though our normal practice is to check the seal integrity whenever tamper-sealed items are moved. In addition, the proper methods for applications of tamper seals were reviewed in detail.

These actions will assure correct application of tamper seals, proper identification of seals, and verification of seal integrity on all sealed items during inventories in full compliance with NRC requirements. Continuing review and monitoring of tamper seal handling and control will avoid future items of noncompliance.

Section 9 of the inspection report discusses a number of observations made during the conduct of the physical inventory in addition to the citation for the item of noncompliance. While the discussion is not incorrect, we believe the following commentary will contribute to a more

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82ESG-726 February 5, 1982 Page 2

complete and coherent description of the activities under consideration. We believe and so stated to the inspector that the item identified as "apparently inadequately sealed with a Type E metal cup seal" was adequately sealed. Further, the item was a 55-gallon drum of SNM waste which had been so identified and was stored in the SNM waste yard, where it was not subject to the physical security requirements. The "similar container" was indeed improperly sealed, but it was still within the security area and was scheduled for measurement that day. When the improper application of the seal was demonstrated, the item was resealed properly, then measured, and transferred to the waste yard. Recognition of this deficiency in our seal application practice resulted in the major emphasis on seal application methods and procedures in the training session as described above.

Please note that this letter contains information of a type specified in 10 CFR 2.790(d) and is thus deemed to be commercial or financial information within the meaning of 10 CFR 9.5(a)(4) and is not subject to public disclosure.

Sincerely yours,

M. E. Remiey, Director Health, Safety, and

Radiation Services Energy Systems Group

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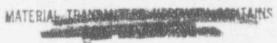


#### UNITED STATES

#### NUCLEAR REGULATORY COMMISSION REGION V

1450 MARIA LANE, SUITE 260 WALNUT CREEK, CALIFORNIA 94596

April 13, 1982



Docket No. 70-25 (SG)

Energy Systems Group Rockwell International 8900 DeSoto Avenue Canoga Park, California 91304

Attention: Mr. Robert G. Jones

Vice President and Controller

Gentlemen:

Subject:

NRC Safeguards Inspection

This letter refers to the routine safeguards inspection of your activities authorized under NRC License No. SNM-21 conducted by Messrs B. L. Brock, A. V. Wieder, and G. B. Nelson of this office on March 1-2 and 15-19, 1982. It also refers to the discussions of our inspection findings held by the inspectors with you and members of your staff on March 19, 1982.

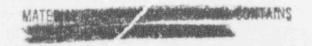
The inspection included examination of activities related to your program for the control and accounting of special nuclear material in accordance with applicable requirements of Title 10, Code of Federal Regulations, Part 70, "Domestic Licensing of Special Nuclear Material," and pertinent license conditions as described in the enclosed inspection report. Within these areas, the inspection consisted of selective examinations of procedures and records, interviews with facility personnel, and observations by the inspectors.

Within the scope of this inspection, no items of noncompliance were observed.

In accordance with Section 2.790(d) of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, documentation of the findings of your control and accounting procedures for safeguarding special nuclear material are exempt from public disclosure; therefore, the enclosed inspection report will not be placed in the Public Document Room.

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MATERIAL TRANSPORTED TO THE OCH TARKS

Energy Systems Group

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APR 1 3 1982

Should you have any questions concerning this letter, we will be glad to discuss them with you.

Sincerely,

LeRoy R. Norderhaug, Chief

Safeguards Branch

Enclosure: Inspection Report No. 70-25/82-02 (SG) (IE-V-485)

#### U.S. NUCLEAR REGLATORY COMMISSION

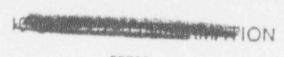
#### REGION V

Report No.	70-25/82-02(SG)(IE-V-485)			
Docket No.	70-25	License No.	SNM-21	Safeguards Group 1
Licensee: _	Energy Systems Group, Rockwell	International		
	8900 DeSoto Avenue			
	Canoga Park, California 91304			
Facility Nam	ne:Energy Systems Group,	Atomic Interna	tional	
Inspection a	it: Headquarters, DeSoto F	acility		
Inspection o	conducted: March 1-2 an	d 15-19, 1982		
Date of Last	: Material Control and Accountin	g Inspection:	October, Nov	ember, & December 4, 198
Type of Ins	pection: Unannounced, Materi	al Control and	Accounting	
Inspectors:	G.B. Nelson, Chemist			4-9-82
	G. B. Nelson, Chemist			Date Signed
	A. Mueder			4/12/92
	A. V. Wieder, Safeguards Audi	tor	N-M	Date Signed
	p. L. Krock			4/9/82
	B. L. Brock, Chemist	0		Date Signed
Approved by:		Quards Branch	>	4/12/82 Date Signed
Inspection S		grand and		

Areas Inspected: Routine safeguards inspection of facility organization and operations, measurement control program, shipper-receiver verification, loss mechanism analysis, records and reports, follow-up on item of noncompliance, and independent safeguards inspection effort. The inspection involved 89 inspector-hours onsite by three inspectors.

Results: There were no items of noncompliance within the eight areas inspected.

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## DETAILS

## 1. Key Persons Contacted

\*M. E. Remley, Director Health, Safety and Radiation Services

\*V. J. Schaubert, Manager, Nuclear Materials Management

D. C. Allen, Engineer, Nuclear Materials Management J. A. Birg, Staff Engineer, QA Audits and Controls

C. L. Nealy, Manager, Analytical Chemistry Laboratories

M. M. Klenck, Member of Technical Staff S. Wode, Management Systems Specialist

J. Kim, Statistician

R. McCurnin, Manager, Nuclear Operations

The inspectors also interviewed other licensee personnel employed in production, QA measurements, and nuclear material control and accounting.

\*Denotes those attending the exit interview.

# 2. Licensee Action on Previous Inspection Findings

Noncompliance, (70-25/81-07(SG)(IE-V 465) (Closed): Failure to verify the integrity of tamper safing devices on containers. The licensee conducted a training class for all persons involved on the proper methods of application of tamper seals.

## 3. Exit Interview

The inspection findings were discussed with the licensee personnel denoted in paragraph 1.

- a. A significant decrease in the population of waste barrels was noted. A plan for overpacking 27 waste barrels stored in MBA-14 vault pad was reviewed.
- b. The Rockwell International Hot Laboratories (RIHL) facility was inspected. A production development program for decladding of coextruded Fermi fuel using a centerless grinder was reviewed.
- UAl Dowders in the analytical chemistry laboratories was re-examired.
- d. An incident involving the loss of 3.2 g of U-235 during the physical inventory taking in MBA-01 on March 2, 1982 was discussed.
- e. The lisensee believes that the source of his ID in excess of LEID results from sampling procedures in the powder room when UAl  $_{\rm X}$  powder is sampled for chemical analysis.





## 4. MC 85202B - Facility Organization

No items of noncompliance were identified.

The licensee's organizational structure is in accordance with the licensee's approved FNMC plan. The structure minimizes conflicts of interest and affords the licensee the ability for effective management of the material control and accounting program.

## 5. MC 85204B - Facility Operations

No items of noncompliance were identified.

Energy Systems Group will apply for renewal of license No. SNM-21, which will expire on September 30, 1982. Current operations are in accordance with federal laws and NRC directives. Fabrication of ATR fuel assemblies will continue through November 1982, then this production will cease and only TRTR fuel assemblies will be fabricated. Activities at Rockwell International Hot Laboratories (RIHL) were inspected. One activity discussed was the development of a process for removal of zirconium cladding and a possible uranium-zirconium intermetallic compound (UZr2) from uranium - 10 wt% molybdenum alloy fuel rods from the Fermi reactor.

## 6. MC 85206B - Measurement Control Program

No items of noncompliance were identified.

The analytical chemistry laboratories were inspected. Documents were reviewed on analytical balance calibrations and check measurement evaluations. Licensee's analytical data shown in the Safeguards Analytical Laboratory Evaluation (SALE) report, January 1982, was examined. Inspectors read the latest audit by the licensee of their contract measurements laboratory, Teledyne Isotopes, Westwood, N.J. Inspectors verified the licensee's use of reference standards from NBS and NBL. Qualifications of the chemists were verified by the inspectors. Reviews were performed of the destructive and non-destructive assay systems.

# 7. MC 852088 - Shipper-Receiver Verification

No items of noncompliance were identified.

Licensee's documents show that he only ships Special Nuclear Material (SNM) to authorized recipients. He measures the SNM content before shipment (destructive assay methods during processing and nondestructive methods after encapsulation) and completes and dispatches Form-741 NRC/DOE.

The licensee measures SNM content of receipts. Shipper-receiver differences are statistically analyzed and an investigation is initiated if the difference exceeds 50 grams U-235.





## 8. MC 85211B - Loss Mechanism Analysis

No items of noncompliance were identified.

SNM losses in liquid and gaseous waste streams for the six months period ending in December 1981 (the latest data available) was 0.11 grams U-235 and 5.6 x 10<sup>-2</sup> grams U-235 respectively from the processing areas. These small quantities are reasonable considering that processing operations from weighing feed through pressing compacts are in controlled and filtered environments. The loss mechanism review therefore followed more closely those streams not clearly addressed. In all cases, the reviews indicated that questionable areas were appropriately controlled under current operating conditions. If significant changes in production throughput occur, additional review would be necessary to assess whether currently adequate controls remained appropriate for the new conditions.

A review of the SNM loss resulting from an accident involving a container holding 808 grams of UAl $_{\rm X}$  (635 grams U and 591 grams U-235) found that 805 grams UAl $_{\rm X}$  was recovered and only 3.22 grams of UAl $_{\rm X}$  (2.53 grams U and 2.36 grams U-235) remained as a difference on a material balance for the container. The 3.22 grams of UAl $_{\rm X}$  includes the quantity cleaned up and added to a drum containing other SNM waste. Therefore, the 3.22 grams represents a maximum loss whereas if the cleanup materials had been measured separately, the 3.22 gram may have been somewhat smaller. The licensee considers this item to be a Normal Operating Loss (NOL).

## 9. MC 852168 - Records and Reports

No items of noncompliance were identified.

An audit of Energy Systems Group's material balance data for the period from October 1, 1981 through January 4, 1982 included:

- a. a verification of the group's November 2, 1981 and January 4, 1982 special nuclear material inventory results
- b. an examination of all November 2 physical inventory differences
- c. confirmation of this inventory difference data to Energy
  Systems Group material control and accounting source documents,
  special nuclear material records, and inventory reports made
  to the Nuclear Regulatory Commission
- d. review of external shipment and receipt documents, and
- e. selective tests of internal material transfer vouchers chosen by random sample.





## 10. MC 92702 - Follow-up on Items of Noncompliance

The one item of noncompliance (70-28/81-07(SG)(IE-V-465), a violation of 10 CFR 70.51, was responded to Region V NRC in a timely manner. The measures taken to correct the item and avoid further items of noncompliance were effected as described below and within the time period specified in the reply. The licensee conducted a special training class on November 24, 1982 for all personnel involved in SNM inventories and the application of tamper seals were reviewed in detail. The class instructions reviewed the requirements for verification of the integrity of all tamper safing seals during physical inventories of SNM. Instructions emphasized that items with improperly applied tamper seals and those with broken or damaged seals must be remeasured and resealed properly. Seal identity and integrity must be inspected and verified during physical inventory of sealed items.

## 11. MC 92713B - Independent Safeguards Inspection Effort

No items of noncompliance were identified.

The physical inventory on March 1-2, 1982 was observed by an inspector. The purpose was to verify that the licensee's efforts to correct an item of noncompliance was efficacious. The physical inventory taking proceeded efficiently and indicated that the training class review and monitoring of tamper seals applications were effective.

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# UNITED STATES NUCLEAR REGULATORY COMMISSION REGION V

1450 MARIA LANE. SUITE 260 WALNUT CREEK, CALIFORNIA 94596

August 20, 1982

Safeguards

Docket No. 70-25



Energy Systems Group Rockwell International 8900 De Soto Avenue Canoga Park, California 91304

Attention: Mr. Frank W. Feiler

Vice President and Controller Finance and Administration

Gentlemen:

Subject: NRC Safeguards Inspection

This letter refers to the routine safeguards inspection of your activities authorized under NRC License No. SNM-21 conducted by Messrs. A. V. Wieder, and G. B. Nelson of this office on July 12-23, 1982. It also refers to the discussions of our inspection findings held by these inspectors with you and members of your staff on July 16 and 23, 1982.

The inspection included examination of activities related to your program for the control and accounting of special nuclear material in accordance with applicable requirements of Title 10, Code of Federal Regulations, Part 70, "Domestic Licensing of Special Nuclear Material," and pertinent license conditions as described in the enclosed inspection report. Within these areas, the inspection consisted of selective examinations of procedures and records, interviews with facility personnel, and observations by the inspectors.

Within the scope of this inspection, no items of noncompliance were observed.

In accordance with Section 2.790(d) of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, documentation of the findings of your control and accounting procedures for safeguarding special nuclear material are exempt from public disclosure; therefore, the enclosed inspection report will not be placed in the Public Document Room.

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Energy Systems Group

-2-

August 20, 1982

Should you have any questions concerning this letter, we will be glad to discuss them with you.

Sincerely,

LeRoy R. Norderhaug, Safeguards Branch

Enclosure: Inspection Report No. 70-25/82-06 (IE-V-507)



The informat: .. on this page is considered to .: appropriate for public disclosure pursuant to 10 CFR 2.790.

#### U.S. NUCLEAR REGULATORY COMMISSION

Region V

Report No.	70-25/82-06 (IE-V-50)	7)	
Docket No.	70-25	License No. SNM-21	Safeguards Group1
Licensee:	Energy Systems Group	, Rockwell International	
	8900 De Soto Avenue		
	Canoga Park, Californ	nia 91304	
Facility Na	nme: Energy Systems (	Group, Atomics International Divisio	on
Inspection	at: De Soto Facility	and Rockwell International Hot Lat	oratory
Inspection	Conducted: July 12-16	and 19-23, 1982	
Date of Las	t Material Control an	d Accounting Inspection Visit: Mar	ch 1-2 and 15-19, 1982
Type of Ins	pection: / Unannounced	d, Material Control and Accounting	
Inspectors:	A. V. Wieder, Sales	uards Auditor uards Chemist	9/19/82 Date Signed 8-19-82 Date Signed
Approved by	T. R. (Nobclethaug.	La Lace Branch	Date Signed  L/19/82 Date Signed

Areas Inspected: Routine safeguards inspection of facilities organization, measurement control plan, shipper-receiver verification, internal control, records and reports, management of material control and independent safeguards inspection effort. The inspection involved 63 inspector-hours onsite by two inspectors.

Results: There were no items of noncompliance within the seven areas inspected.

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#### REPORT DETAILS

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THIS DOCUMENT IS NOT TO BE REPRODUCED WITHOUT SPECIFIC APPROVAL OF IEW

## Persons Contacted

\*F. W. Feiler, Vice President and Controller

\*M. E. Remley, Director, Health, Safety and Radiation Services

\*V. J. Schaubert, Manager, Nuclear Materials Management

D. C. Allen, Engineer, Nuclear Materials Management J. A. Birg, Staff Engineer, QA Audits and Controls

C. L. Nealy, Manager, Analytical Chemistry Laboratories

S. Wode, Management Systems Specialist

J. Kim. Statistician

W. R. McCurnin, Manager, Nuclear Operations

The inspectors also interviewed other licensee personnel employed in production and nuclear material management.

\*Denotes those attending the exit interviews.

## 2. Licensee Action on Previous Inspection Findings

Not applicable

#### 3. Exit Interview

The inspection findings were discussed with licensee management personnel denoted above.

- (a) Reviewed and observed the decladding of South East Fast Oxide Reactor (SEFOR) fuel pins at Rockwell International Hot Laboratories (RIHL). Recorded material control and accounting aspects of the operation and handling equipment changes in the plan. Inspected and reviewed the efforts in development of a plan to declad Fermi Reactor fuel pins.
- (b) Recorded facility organizational changes.
- (c) Inspected the measurements control program.
- (d) Inspected shipper-receiver differences for the period January 5, 1982 through May 2, 1982.
- (e) Accomplished an inspection of the licensee's internal control program.
- (f) Performed an audit of the licensee's records and reports.





(g) Reviewed a recent management audit of the material control and accounting plan.

## 4. MC-927138 Independent Inspection Efforts Safeguards

Reviewed and observed the decladding of SEFOR fuel pins at RIHL. Items noted were the planned improvements in operations to reduce radiation exposure to personnel and to increase the rate of decladding. A modified plan for the operation will be written by August 31, 1982. At present the licensee is operating under an unnumbered license condition to Amendment MPP-1 to License No. SNM-21 effective July 30, 1982. Such work shall be limited to a maximum of 30 fuel pins and shall be completed by August 31, 1982. The observed MC&A procedures are adequate.

Inspected an R&D effort to develop a procedure to declad Fermi fuel pins.

No items of noncompliance were observed.

## 5. MC-85202B Facility Organization

No items of noncompliance were noted.

Energy Systems Group nuclear material management has had to adjust for the loss of one person due to a reduction-in-force. Certain of that person's material control and accounting responsibilities were reassigned to other NMM members. The reassigned responsibilities were outlined in a March 24th memorandum which was reviewed during the inspection. As circumstances now exist, one member of the NMM group acts as an MBA custodian, also has the responsibility for controlling and issuing the supplies of material vouchers and tamper safing seals, and working with the nuclear material accountability records. A conflict of interest apparently does not exist while other NMM members continue to interact with many of this person's clerical duties/functions. Such interactions are intended to serve as cross checks which lessen this person's chances of acting alone in a given set of circumstances without another's knowledge.

## 6. MC-85206B Measurement Control Program

Inspected the measurement control practices of the licensee and found them in compliance with the FNMC plan and applicable sections of the Code of Federal Regulations.

No items of noncompliance were observed.

## 7. MC-852088 Shipper-Receiver Verification

No items of noncompliance were noted.

A review was made of some eighteen form NRC-741 documents that represent shipments or receipts of reportable quantities of special nuclear material by Energy Systems Group during the period January 5, 1982 through May 2, 1982.

Each NRC 741 was; examined for significant shipper and receiver differences, checked for timeliness of issuance or acknowledgement, and verified to corresponding entries in the Nuclear Material ledgers.

## 8. MC-85210B Internal Control

No items of noncompliance were noted.

Both supplies of unused material transfer vouchers and the metal and paper tamper-safing seals, controlled by the Nuclear Material Management Group, were verified by a physical inventory and random sample.

Both the vouchers and tamper seals were noted to be maintained in separately locked safes in an office that is also locked when unattended.

## 9. MC-85216B Records and Reports

No items of noncompliance were noted.

The audit of Energy Systems Group special nuclear material records included:

- 1) A verification of its October 1, 1981 to March 31, 1982 Semi Annual Material Balance Report (Form NRC-742) to previously audited data and data audited for the period January 5th through March 31st, 1982.
- 2) An examination of the special nuclear material transactions posted to the accountability ledgers during April 1st and May 2nd.
- 3) Confirmation of the May physical inventory differences that had been reported to the NRC Regional Office by letter dated June 2, 1982, and
- 4) Confirmation of the material balance data shown in Energy Systems Group May 28th special nuclear material inventory balance report.





## 10. MC-85218B Management of Materials Control System

The licensee's nuclear material control and accounting (MC&A) management system, staff and procedures are in compliance with conditions of the operating licensee, Code of Federal Regulations and the licensee's FNMC plan.

No items of noncompliance were observed.



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# UNITED STATES NUCLEAR REGULATORY COMMISSION REGION V

1450 MARIA LANE, SUITE 210 WALNUT CREEK, CALIFORNIA 94596

September 28, 1982

Adrian Mar

Docket No. 70-25



Energy Systems Group Rockwell International 8900 De Soto Avenue Canoga Park, California 91304

Attention: Mr. Frank W. Feiler

Vice President and Controller Finance and Administration

Gentlemen:

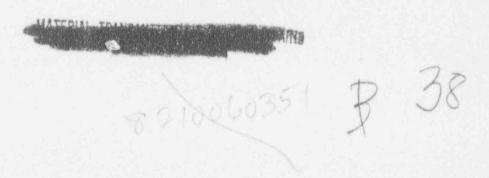
Subject: NRC Safeguards Inspection

This letter refers to the routine safeguards inspection of your activities authorized under NRC License No. SNM-21 conducted by G. B. Nelson of this office with H. Bartz, NMSS Headquarters, USNRC on September 13-16, 1982. It also refers to the discussions of our inspection findings held with you and members of your taff on September 16, 1982.

The inspection incluse a mination of activities related to your program for the control and according of special nuclear material in accordance with applicable requirements of Title 10, Code of Federal Regulations, Part 70, "Domestic Licensing of Special Nuclear Material," and pertinent license conditions as described in the enclosed inspection report. Within these areas, the inspection consisted of selective examinations of procedures and records, interviews with facility personnel, and observations by the inspectors.

Within the scope of this inspection, no items of noncompliance were observed.

In accordance with Section 2.790(d) of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, documentation of the findings of your control and accounting procedures for safeguarding special nuclear material are exempt from public disclosure; therefore, the enclosed inspection report will not be placed in the Public Document Room.



September 28, 1982 Energy Systems Group -2-MON Should you have any questions concerning this letter, we will be glad to discuss them with you. Sincerely, LeRoy R. Norderhaug, Chief Safeguards Branch Enclosure: Inspection Report No. 70-25/82-08 (IE-V-523) MATEC

The informat n on this page is considered to appropriate for public ausclosure pursuant to 10 CFR 2.790.

#### U.S. NUCLEAR REGULATORY COMMISSION

#### Region V

Report No. 70-25/82-08 (IE-V-523)	
Docket No. 70-25 License No. SNM-21	Safeguards Group 1
Licensee: Energy Systems Group, Rockwell International	MAKE MAKE
8900 De Soto Avenue	
Canoga Park, California 91304	
Facility Name: Energy Systems Group, Atomics International Divis	ion
Inspection at: De Soto Facility and Rockwell International Hot La	aboratory
Inspection Conducted: September 13-16, 1982	
Date of Last Material Control and Accounting Inspection Visit: Ju	uly 12-23, 1982
Type of Inspection: Announced, Material Control and Accounting	
Inspectors: A. B. Helson	9-27-82
G. B. Nelson, Safeguards Chemist	Date Signed
	Date Signed
	Date Signed
Approved by:	
L. R. Norderhaug, Chief, Safeguards Branch	Date Signed
Inspection Summary:	

Areas Inspected: Routine safeguards inspection of measurement control program and independent inspection effort safeguards. The inspection involved 40 inspector-hours onsite by two inspectors.

Results: There were no items of noncompliance within the two areas inspected.

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#### REPORT DETAILS

#### 1. Persons Contacted

## Energy Systems Group, Rockwell International

\*F. W. Feiler, Vice President and Controller

\*M. E. Remley, Director, Health, Safety and Radiation Services

\*V. D. Schaubert, Manager, Nuclear Materials Management

D. C. Allen, Engineer, Nuclear Materials Management

J. D. Moore, Health and Safety Engineer S. J. Wode, Management Systems Specialist

J. Kim, Statistician

## Fuel Facility SG Licensing Branch, Division of Safeguards, NMSS, USNRC

\*H. Bartz,

The inspectors also interviewed other licensee personnel employed in nuclear materials management and spent-fuel decladding operations.

\*Denotes those attending the exit interview.

## 2. Licensee Actions on Previous Inspection Findings

Not applicable.

## 3. Exit Interview

The inspection findings were discussed with licensee management personnel denoted above.

- (a) Observed a part of the decladding operations of South East Fast Oxide Reactor (SEFOR) fuel pins at Rockwell International Hot Laboratory (RIHL).
- (b) Completed measurement control program inspection, this included the acquisition of twelve samples for measurement systems verification at the New Brunswick Laboratory and Oak Ridge National Laboratory.
- (c) Announced a planned inventory verification inspection and inspection of physical inventory taking the first week of November.





- (d) Discussed and reviewed the new plan currently under development for SEFOR fuel pin decladding.
- (e) Noted future plans of ESG on ATR and TRTR fuel fabrication and the decontamination efforts in UAl powder blending and compacting laboratories.

#### 4. MC-92713B Independent Inspection Efforts Safeguards

Observed a part of the SEFOR fuel pin decladding at RIHL. Radiation exposures have been reduced by the use of master slave manipulators and an automated pin cutting device.

Reviewed with nuclear material management a revision to the plan, now under development, for SEFOR fuel pin decladding. The plan will be reviewed by Fuel Facility SG Licensing Branch, NMSS.

Management at ESG plans to complete HEU fuel element fabrication by December 31, 1982. UAI powder blending is completed and compacting operations are almost finished. ESG's goal is to have less than a formula quantity of uranium-235 on site at the end of December 1982.

No items of noncompliance were identified.

## 5. MC-85206B Measurement Control Program

Completed the measurement control program inspection. Twelve samples were acquired for measurement systems verification. The samples included four 1.5 g samples of blended UAl powder, four scrap compacts and four scrap plates. The samples contain a total of 5 g of uranium-235. The samples will be analyzed by destructive assay siques for Wt.% U and Wt.% U-235. Two laboratories will perform the analyses, the New Brunswick Laboratory and Oak Ridge National Laboratory.

No items of noncompliance were identified.



NRC FORM 766 (11.81) IF MC 0536 CHECKAR REGULATORY COMMISSION

INSPECTOR'S REPORT

GILBERT B Nelson
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#### UNITED STATES NUCLEAR REGULATORY COMMISSION REGILIV

1450 MARIA LANE, SUITE 210 WALNUT CREEK, CALIFORNIA 94596

December 14, 1982

Safeguardo

Docket No. 70-25



Energy Systems Group Rockwell International 8900 De Soto Avenue Canoga Park, California 91304

Attention: Mr. Fra.k W. Feiler

Vice President and Controller

Gentlemen:

Subject: NRC Safeguards Inspection

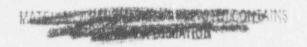
This letter refers to the routine safeguards inspection of your activities authorized under NRC License No. SNM-21 conducted by Messrs. L. R. Norderhaug, B. L. Brock, A. V. Wieder and G. B. Nelson of this office on October 18-20, November 1-5, 1982. It also refers to the discussions of our inspection findings held by the inspectors with you and members of your staff on November 5, 1982.

The inspection included examination of activities related to your program for the control and accounting of special nuclear material in accordance with applicable requirements of Title 10, Code of Federal Regulations, Part 70, "Domestic Licensing of Special Nuclear Material", and pertinent license conditions as described in the enclosed inspection report. Within these areas, the inspection consisted of selective examinations of procedures and records, interviews with facility personnel and observations by the inspectors.

Within the scope of this inspection, no items of noncompliance or deviations were observed.

In accordance with Section 2.790(d) of the NRC's "Rules of Practice." Part 2, Title 10, Code of Federal Regulations, documentation of the findings of your control and accounting pi 'edures for safeguarding special nuclear material are exempt from p lic disclosure; therefore, the enclosed inspection report will not be placed in the Public Document Room.

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Energy Systems Group

- 2 -

December 14, 1982

Should you have any questions concerning this letter, we will be glad to discuss them with you.

Sincerely

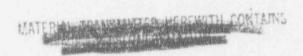
LeRoy R. Norderhaug, Chief

Safeguards Branch

Enclosure:

Inspection Report

No. 70-25/82-10 (IE-V-531)



The informa' i on this page is considered to e appropriate for public disclosure pursuant to 10 CFR 2.790.

#### U.S. NUCLEAR REGULATORY COMMISSION

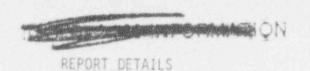
#### Region V

Report No. 70-25/82-10 (IE-V-531)	
Docket No. 70-25 License No. SNM-21	Safeguards Group I
Licensee: Energy Systems Group, Rockwell International	
8900 De Soto Avenue	
Canoga Park, California 91304	
Facility Name: Energy Systems Group, Atomics International	
Inspection at: Headquarters, De Soto Facility	
Inspection Conducted: October 18-20 and November 1-5, 1982	
Date of Last Material Control and Accounting Inspection Visit:	September 13-16, 1982
Type of Inspection. Announced, Material Control and Accounting	
Inspectors: B Relson  GAB. Nelson, Chemist	12 /4/82 Date Signed
A U Wieder	12/8/82
A. V. Wieder, Safeguards Auditor	Date/Signed 12/13/82
B. L. Brock, Chemist	Date Signed
Approved by: L. R. Norderhaug, Chief, Safeguards Tranch	Date Signed
Inspection Summary:	

Areas Inspected: Routine announced safeguards inspection of physical inventory, inventory verification and independent safeguards inspection effort. The inspection involved 155 inspector-hours onsite by 4 inspectors.

Results: There were no items of noncompliance in the three areas inspected.

STITERENS



#### 1. Persons Contacted

## Energy Systems Group, Rockwell International

\*F. W. Feiler, Vice President and Controller

\*M. E. Remley, Director, Health, Safety and Radiation Services

\*V. D. Schaubert, Manager, Nuclear Materials Management D. C. Allen, Engineer, Nuclear Materials Management

J. D. Moore, Health and Safety Engineer S. J. Wode, Management Systems Specialist

J. Kim, Statistician

The inspectors also interviewed other licensee personnel employed in nuclear materials management and spent-fuel decladding operations.

\*Denotes those attending the exit interview.

## 2. Licensee Actions on Previous Inspection Findings

Not applicable.

#### 3. Exit Interview

The inspection findings were discussed with licensee management personnel denoted above.

- (a) Observed physical inventory taking by licensee personnel.
- (b) Completed, partially, the NRC's inventory verification effort.
- (c) Announced an inspection starting November 29, 1981 to inspect the reconciliation and adjustment of the book record to the results of the physical inventory, the calculation of the ID for U element and U-235 in the material balance interval, and to complete verification.
- (d) Reviewed an investigation of ignition of UA1 powder scrap during a blending operation in an inert box in the powder room on October 26, 1982.

## 4. MC-92703B Independent Safeguards Inspection Effort

No items of noncompliance were identified.

Reviewed an investigation by the licensee of an ignition and oxidation of some UA1 scrap powder on October 26, 1982 during a blending operation. Routinely, the blending of UA1 powders is conducted in a gloved dry-box containing an argon atmosphere. The dry box used had a malfunctioning exhaust valve that remained in the open mode and prevented the proper argon atmosphere being maintained. When the technician poured the powder into the blender, the particles ignited. The fire was extinguished, the material recovered and samples taken for chemical analyses of U element.





## 5. MC-85212B Physical Inventory

No items of noncompliance were identified.

Inspected and observed the taking of the physical inventory by the licensee.

Audited and made closure around ESG's inventory sticker distribution log and inventory sheet distribution log.

Observed NMM personnel perform overcheck in MBA-01.

#### 6. MC-85213B Inventory Verification

Partially completed the inventory verification. Eleven of thirteen populations were examined and verified; and no defects were identified in the eleven strata.

One scrap fuel plate, 17KU908AT, and two chunks of U metal from a can containing feed stock were aquired and packaged for shipment to the New Brunswick Laboratory for chemical analyses of U and mass spectrometric measurement of U-235. The measured values of U and U-235 when reported by NBL should give independent verification of the inventory in the strata from which they came.



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# UNITED STATES NUCLEAR REGULATORY COMMISSION REGION V

1450 MARIA LANE, SUITE 210 WALNUT CREEK, CALIFORNIA 94596

December 22, 1982

Wieder

Docket No. 70-25

Energy Systems Group Rockwell International 8900 De Soto Avenue Canoga Park, California 91304

Attention: Mr. Frank W. Feiler

Vice President and Controller

Gentlemen:

Subject: NRC Safeguards Inspection

This letter refers to the routine safeguards inspection of your activities authorized under NRC License No. SNM-21 conducted by Messrs. A. V. Wieder and G. B. Nelson of this office November 29 through December 3, 1982. It also refers to the discussions of their inspection findings with you and members of your staff on December 3, 1982.

The inspection included examination of activities related to your program for the control and accounting of special nuclear material in accordance with applicable requirements of Title 10, Code of Federal Regulations, Part 70, "Domestic Licensing of Special Nuclear Material", and pertinent license conditions as described in the enclosed inspection report. Within these areas, the inspection consisted of selective examinations of procedures and records, interviews with facility personnel and observations by the inspectors.

Within the scope of this inspection, no items of noncompliance or deviations were observed.

In accordance with Section 2.790(d) of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, documentation of the findings of your control and accounting procedures for safeguarding special nuclear material are exempt from public disclosure; therefore, the enclosed inspection report will not be placed in the Public Document Room.

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December 22, 1982 Energy Systems Group - 2 -Should you have any questions concerning this letter, we will be glad to discuss them with you. Sincerely. LeRoy R. Norderhaug, Chief Safeguards Branch Enclosure: Inspection Report No. 70-25/82-12 (IE-V-537)

The information on this page is considered to be appropriate for public disclosure pursuant to 10 CFR 2.790.

#### U.S. NUCLEAR REGULATORY COMMISSION

Region V

Report No.	70-25/82-12 (IE-V-537)	
Docket No.	70-25 License No. SNM-21	Safeguards Group I
Licensee:	Energy Systems Group, Rockwell International	
	8900 De Soto Avenue	
	Canoga Park, California 91304	
Facility Na	me: Energy Systems Group, Atomics International	
Inspection	at: De Soto Facility	
Inspection	Conducted: November 29 through December 3, 1982	
Date of Las	t Material Control and Accounting Inspection:	November 1-5, 1982
Type of Ins	pection: Material Control and Accounting	
Inspectors:	A. V. Wreder, Safeguards Auditor	19-/21/82_ Date Signed
	A. W. Wreder, Safeguards Auditor	12-21-82
	G. B. Nelson, Chemist	Date Signed
		Date Signed
Approved by		12/21/82
	L. R. Nordernaug, Chief, Safeguards Branch	

Areas Inspected: Routine announced safeguards inspection of the following areas: Facility Operations; Shipping and Receiving; Inventory Verification; Records and Reports; Management of Nuclear Materials; and Independent inspection.

The inspection involved 60 inspector-hours onsite by two NRC inspectors during regular hours.

Inspection Summary:

Results: There were no items of noncompliance with NRC requirement in the six areas examined.

#### REPORT DETAILS

#### 1. Persons Contacted

#### Energy Systems Group, Rockwell International

\*F. W. Feiler, Vice President and Controller

\*M. E. Remley, Director, Health, Safety and Radiation Services

\*V. D. Schaubert, Manager, Nuclear Materials Management

D. C. Allen, Engineer, Nuclear Materials Management

S. J. Wode, Management Systems Specialist

J. Kim, Statistician

The inspectors also interviewed or interacted with other licensee personnel in the course of this inspection.

\*Denotes those aftending the exit interview.

#### 2. Licensee Actions on Previous Inspection Findings

Not applicable.

#### Exit Interview

Inspectors findings were presented to Mr. Feiler, Dr. Remley and Mr. Schaubert at the conclusion of this inspection.

All acknowledged the findings of no items of noncompliance.

## 4. Inspection Details

There were no items of noncompliance noted in the following areas.

(a) MC-85204B Facility Operations

MC-85208B Shipper-Receiver Verification

MC-85208B Inventory Verification

MC-852168 Records and Reports

- 1. Material status Reports for the period 4-1-82 through 9-30-82.
- 2. Special Nuclear Material Inventory Reports for the periods:

5-3-82 through 6-27-82, 6-28-82 through 8-29-82 and 8-30-82 through 10-31-82 MC-852188 Management of Materials Control System

Reviewed an Annual Management Audit Review of Materials Control System Report 2B1, 3-24-82.

## (b) MC-92713B Independent Safeguards Inspection Efforts

Observed the loading and verified the container numbers and type E tamper seal numbers to shipping data sheets of a SST shipment of TRTR elements and plates. The shipment represented approximately 14 percent of the 11-1-82 inventory.

Discussed with the manager, Nuclear Materials Management, future plans with regard to SSNM shipments offsite, decontamination and decommissioning of fuel fabrication facility areas of building 1, and the decladding of SEFOR pins at RIHL.

Inspected the licensee's calculated ID ford U-235 for the inventory period ending 11-1-82. The LEID associated with the ID exceeded the applicable limits as specified in 10 CFR 70.51(e)(5). The licensee responded with a letter (82-ESG-7864) dated 11-30-82 as required by 10 CFR 70.53(b)(2) stating the probable reasons for the LEID.

1E-11-537

U.S. NUCLEAR REGULATORY COMMISSION NRC | DR - 766 HE MIC 0635 INSPECTOR'S REPORT Office of Inspection and Enforcement INSPECTORS Wieder Grneid Nelson Gilhert TRANSACTION TYPE REPORT NEXT INSPEC DATE DOCKET NO 18 digital OR LICENSE NO. (BY PRODUCT) (13 digits) NO. - INSERT - MODIFY De Soto Avenue - DELETE R - REPLACE U Canoga Park, CA 91304 14 15 PERIOD OF INVESTIGATION/INSPECTION INSPECTION PERFORMED BY ORGANIZATION CODE OF REGION/HO CONDUCTING ACTIVITY (See IEMC 0530 Manpower Report - REGIONAL OFFICE STAFF ing - Weekly Manpower Reporting | for code )
REGION | DIVISION | BRAN 2 - RESIDENT INSPECTOR DAY YR 3 - PERFORMANCE APPRAISAL TEAM 34 35 20 25 26 32 TYPE OF ACTIVITY CONDUCTED ICheck one box only REGIONAL ACTION (Check one box only 11 - INQUIRY 06 - MGMT. VISIT 10 - PLANT SEC 02 - SAFETY 11 - INVENT VER 15 - INVESTIGATION 07 - SPECIAL 03 - INCIDENT " 1 - NRC FORM 591 08 - VENDOR 12 - SHIPMENT/EXPORT 04 - ENFORCEMENT Z - REGIONAL OFFICE LETTER L 09 - MAT ACCT 13-IMPORT 05 - MGMT, AUDIT 37-38 REPORT CONTAIN 2 790 INFORMATION TOTAL NUMBER OF VIOLATIONS AND DEVIATIONS ENFORCEMENT CONFERENCE HELD LETTER OF REPORT TRANSMITTAL DATE NRC FORM 591 REPORT SENT DA REG. LETTER IS SUED TO HO FOR 1 - CLEAR 2 - VIOLATION ABCD DAY YR DAY YR. 3 - DEVIATION ABCO 1212282 4 - VIOLATION & DEVIATION 1 - YES 44 42 .39 40-41 MODULE INFORMATION MODULE INFORMATION MODULE REQ FOLLOWUR MODULE NUMBER INS MODULE REQ. FOLLOWUR MODULE NUMBER INST PHYSICAL INFORM ENTRACE Exit YEX IN IPPAIN INTERVIEW INDEFERT. INSPECTION FACILITY CREFFERIS REMEINER 1. 151616 MHELLINES \* CHICLE SEQUENCE IF



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#### NUCLEAR REGULATORY COMMISSION REGION V

1450 MARIA LANE, SUITE 210 WALNUT CREEK, CALIFORNIA 94596

MAR 2 1 1983

Docket No. 70-25

Energy Systems Group Rockwell International 8900 De Soto Avenue Canoga Park, California 91304

Attention: Mr. Frank W. Feiler

Vice President and Controller

Gentlemen:

Subject: NRC Safeguards Inspection

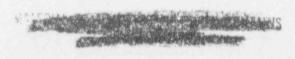
This letter refers to the routine safeguards inspection of your activities authorized under NRC License No. SNM-21 conducted by Mr. A. V. Wieder of this office March 7 through March 11, 1983. It also refers to the discussions of his inspection findings with you and members of your staff on March 11, 1983.

The inspection included examination of activities related to your program for the control and accounting of special nuclear material in accordance with applicable requirements of Title 10, Code of Federal Regulations, Part 70, "Domestic Licensing of Special Nuclear Material", and pertinent license conditions as described in the enclosed inspection report. Within these areas, the inspection consisted of selective examinations of procedures and records, interviews with facility personnel and observations by the inspectors.

Within the scope of this inspection, no items of noncompliance or deviations were observed.

In accordance with Section 2.790(d) of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, documentation of the findings of your control and accounting procedures for safeguarding special nuclear material are exempt from public disclosure; therefore, the enclosed inspection report will not be placed in the Public Document Room.

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Energy Systems Group

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MAR 21 1983

Should you have any questions concerning this letter, we will be glad to discuss them with you.

Sincerely,

LeRoy R. Norderhaug, Chief

Safeguards Branch

Enclosure: Inspection Report No. 70-25/83-02 (IE-V-553)