

[REGIONAL LETTERHEAD]

INSPECTION REPORT NO. 070-1488/77-01

Attached

(Licensee name and address)

Appendix A

ENDOTEK AEROSPACE CORP

Appendix B

1210 MASSILLON RD., AVON, OH 44315

Appendix C

Telephone no: 216-794-3334 (W.L.SELBY)

Memo

License no. SNM-1461 Last amendment & date: None

Category: A & Priority: II, as of last amendment.

Inspection date(s): 4/14-20/77 Type of inspection: ROUTINE - ANNOUNCED

SUMMARY OF FINDINGS AND ACTION

- No noncompliance, clear 591
- Noncompliance, 591 issued
- Noncompliance, Appendix A
- Regional action Hq action
- Action on previous n/c, App B
- Supplemental info, App C

RECOMMENDATIONS

See basis in Appendix C or attached memo.

- Change Category to: _____
- Change Priority to: _____
- Next inspection date: 4/78

PERSONS CONTACTED

<u>J.C. FELDSCHER</u>	<u>Mgr. BUSINESS & EDUCATION</u>	<u>ECONOMICS</u>
<u>W.L. SELBY</u>	<u>Mgr. SECURITY</u>	<u>PLANNING</u>
<u>R.W. MURRELL</u>	<u>Mgr. Ind. Hygiene</u>	<u>G.V. TIRE & RUBB</u>
<u>Fred Yoder</u>	<u>Physicist, TEST OPERATIONS</u>	
<u>D.P. SEEMANN</u>	<u>ADMINISTRATION</u>	

Inspector: K.R. Ridgway 4/22/77

Approved: W.L. Fisher 4/22/77

3/28/77

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APPENDIX A - DOCUMENTATION OF NONCOMPLIANCE

Licensee: GOODYEAR AEROSPACE CORP License No. 51MM-1461

Reference	Basis for noncompliance
Report item <u>18c</u> 10 CFR <u>19.11(a)</u> Lic Cond _____ Type n/c <u>DEFICIENCY</u>	LOCATION OF REGULATIONS & PROCEDURES WAS NOT POSTED AT ENTRANCE TO THE TEST FACILITY.
Report item _____ 10 CFR _____ Lic Cond _____ Type n/c _____	
Report item _____ 10 CFR _____ Lic Cond _____ Type n/c _____	
Report item _____ 10 CFR _____ Lic Cond _____ Type n/c _____	
Report item _____ 10 CFR _____ Lic Cond _____ Type n/c _____	
Report item _____ 10 CFR _____ Lic Cond _____ Type n/c _____	

INSPECTION PLAN AND REPORT NUMBER C10-1484
77-01

Approved: _____ Date: 4/13-24/77

Licensee: GOOD YEAR ACRES, INC.

License no. 54011461

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Inspection Items	Scheduled for inspection	Post-inspection status	Module No.	766 Time info
Management Meeting - Entrance and Exit Interviews [Required]	✓		30703B	1.0
Initial Management Meeting	✓		new. 6/2/77	1.0
Program requirements, MC 2850 [Required]	✓		7771013	7.0
Licensee Event Followup			92700B	
Followup on Inspector-identified problems			92701B	
Followup on Noncompliance and Deviations			92702B	
IE Bulletin/Immediate Action Letter Followup			92703B	
Followup on Headquarters Requests			92704B	
Followup on Regional Requests			92705B	
Independent Inspection Effort [Required]	✓		92706B	2.0
Inspector Dispatched to Site			93700B	
Followup on Significant Event Occurring During Inspection			93701B	

Licensee and Address: GOODYEAR AEROSPACE CORP

1210 MASSILLON ROAD, AICKON, OHIO 44315

Facility: WINGFOOT ADVANCED TECH. CENTER Type of Licensee: SNM RESEARCH & DEV

Location: WINGFOOT LAKE, OHIO Type of Inspection: ROUTINE ANNOUNCE

Date(s) of Inspection: 4/19-20/77 Date(s) of Previous Inspection: INITIAL

License No.	Amend. No. & Date	Report No.	Category	Priori
<u>SNM-1461</u>	<u>*1 - 1/23/74</u>	<u>070-1484/77-01</u>	<u>A</u>	<u>II</u>

Principal Inspector: K.R. RIDGWAY Other Accompanying Personnel: NONE

Accompanying Inspector(s): NONE

Reviewed By: W.L. FISHER

Title: CH FFPSS

Findings: 591 or Ltr: 591 Compliance: Yes No No. of Violations: 1

Recommended Reinspection Date: 7/78 No. of Safety Items: 0

Entrance Interview In Accord With Appropriate Items In Procedure 30703B Or 30800B: Yes No

Include Names of Licensee Participants:

J.C. FELDSCHEER, MGR, BUSINESS & ECONOMICS

W.L. SELBY, MGR, SECURITY

R.W. MOORELL, MGR, INDUSTRIAL HYGIENE, GOODYEAR TIRE & RUBB

F. YODER, PHYSICIST, GAS TESTING & ISOTOPIC ANALYSIS

Management Summary In Accord With Appropriate Items In Procedure 30703B Or 30800B: Yes No

List Individual(s) (including title) With Whom Inspection Was Summarized:

SAME AS ABOVE

Noncompliance and Safety Items Noted:

Regulations

Brief Statement of Problem

Paragraph of Record Where Discussed

10.CFR 19.11(a) NRC REGULATIONS WERE NOT PROPERLY POSTED

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INDUSTRIAL - ACADEMIC INSPECTION REPORT

Licensee: EUROSTAR AEROSPACE CORP Lic. No. CNM-146 Amendment No. 1

Date of Inspection: 9/19-20/77

1. INSPECTION HISTORY Initial Insp.

- a. Items of noncompliance or safety items noted during last inspection conducted on THIS IS AN INITIAL INSPECTION Yes _____ No _____
- b. Requirement _____ Corrected _____ Not Corrected _____

c. If any items of noncompliance or safety items noted during the last inspection were not corrected, explain: _____

2. ORGANIZATION

- a. Organizational structure as described in application or letter

Dated _____, Or NEW ORG. SHEETS PLACED IN LIC. APPLICATION

- b. List primary licensee contact: J.C. FELDSCHE Telephone No.: 316-794-4675
OR W.L. SELBY, MGR SECURITY MGR. OF BUSINESS & ECONOMIC 3334
- c. Comment: _____

*AERON FTS
292-5400*

RADIATION SAFETY RESPONSIBILITY IS DIVIDED BETWEEN FRED YIDER, PHYSICIST CONDUCTING GAS TESTS & ISOTOPIC ANALYSIS PLUS DECONTAMINATION WORK AND JOHN FELDSCHE WHO ADMINISTERS THE LICENSE AND CHECKS ON RADIATION SURVEYS. GAC IS MOVING A TECHNICIAN TO A FULL TIME POSITION TO INCLUDE RAD PROTECTION AT THE TEST SITE.

3. SUMMARY OF LICENSED PROGRAM (Kind of program, number of people, rate of use or quantities on hand, places and frequency of use, type, quantity and use as authorized).

RESEARCH AND DEVELOPMENT OF GASEOUS ENRICHMENT CENTRIFUGES IS THE BUSINESS. SMALL QUANTITIES OF NAT. UF₆ IS USED BATCH WISE IN FUSE TESTING. WHICH IS CARRIED OUT AT LESS THAN ATMOSPHERIC PRESSURE. ENRICHED UF₆ STDS UP TO 3% ARE USED IN ISOTOPIC ANALYSIS OF FUSE GAS SAMPLES LESS THAN 100# OF UF₆ HAS BEEN USED. IT IS NOT RECYCLED BUT SHIPPED BACK TO ORNL AS WASTE.

Category and priority of this license is appropriate: Yes No

If "No" state new Category _____ Priority _____.

4. INTERNAL AUDITS OR INSPECTIONS

a. Required by L/C or application: Yes _____ No If "Yes":

1) By whom _____

2) Frequency _____ Announced: _____ Unannounced: _____

3) Scope _____

4) Records maintained: Yes _____ No _____

5) Records reviewed: Yes _____ No _____

6) Period Reviewed: _____

b. Comment (responsibility of auditor or committee, management control): _____

SEMI ANNUAL AUDITS BY A P.J. BROWN, ^{GAC} SAFETY MAN INCLUDED RAD. SAFETY. HE WRITES A LETTER ON ANY DEFICIENCIES. HE HAS DONE SOME CUPEL SAMPLING TO CHECK FIXED SAMPLES.

5. TRAINING RETRAINING AND INSTRUCTION TO WORKERS

a. Training program specified in L/C or application: Yes _____ No

b. If training program is required, describe scope of program: _____

c. Retraining required: Yes _____ No

If "Yes" is retraining: Complete _____ Incomplete _____

1) Are tests and/or examinations required: Yes _____ No

2) If "Yes" are records available: Yes _____ No _____

3) Reviewed test results: Yes _____ No _____

4) Period reviewed: _____

5) Comment (per cent completed, test results, etc.): _____

d. Training provided, but not covered above: FOR USING VFC & DECONTAMINATION
EQUIPMENT OR WORKING NEAR TEST AREA, INSTRUCTIONS
WERE GIVEN FOR USE OF EMERGENCY RESPIRATORS, FIRE
EQUIPMENT, VFC CYL. REPAIR ETC. RETRAINING
COVERED IN SAFETY MEETINGS AND PRIOR JOB INSTRUCTIONS.

e. Instructions to workers in accord with 10CFR 19.12: Yes No _____

6. RADIOLOGICAL PROTECTION PROCEDURES

a. Operating and emergency procedures

- 1) Required by L/C or application: Yes _____ No
- 2) Provided, but not required by L/C or application: Yes No _____
- 3) Procedures reviewed: Yes No _____
- 4) Appeared Adequate: Yes No _____

5) Comments (personnel's understanding of procedures): ONLY 9 PEOPLE USE THE UF₆ MIL. AND THREE ARE PHYSICISTS OR ENGINEERS RUNNING THE TESTS. THE CHIEF PHY. WAS KNOWLEDGEABLE IN UF₆ HAZARDS AND EMERGENCY PROCEDURES FOR BUGGING LEAKS ETC.

b. ~~Changes in procedures since last inspection: Yes _____ No _____~~

~~1) Were changes authorized: Yes _____ No _____~~

~~2) Comments: _____

_____~~

7. INSTRUMENTATION

a. Type(s) of radiation survey instruments on hand as per L/C, application or equivalent: Yes No _____

1) If "No" list changes: NO LICENSE COMMITMENT. BUT THEY HAD A EBERRING LAB. 1 SCINTILLATION COUNTER, 2 EBERRING X PAC-45, 1 RMIS and 1 VICTOREEN 490^{GM} COUNTER.

b. Capability of radiation survey instruments adequate for program:

Yes No

c. Calibration of instruments required: Yes No

d. If "Yes" instruments calibrated in accord with requirements:

Yes No

e. Comment: INSTRUMENTS WERE CHECKED ON SOURCES PROVIDED
BT EBELINE BEFORE USE.

8. MATERIALS

a. Radioactive material secured to prevent unauthorized removal from:

1) Restricted area: Yes No

2) Unrestricted area (20.207): Yes No

b. Method of control appears adequate: Yes No

c. Comment: SECURITY AROUND FACILITY APPEARED TO BE VERY
GOOD DUE TO THE CLASSIFICATION OF THE WORK.
THE FACILITY IS WITHIN A CHAIN LINK FENCE.

9. FACILITIES

a. Facilities described in letter or application: Yes No

b. Facilities inspected: Yes No

c. Comment: THE TEST FACILITY IS A ENCLOSED BUILDING INSIDE AN
OLD BLIMP HANGAR - ALL SOURCE & SNM WORK IS INSIDE THE
ENCLOSURE. THE ENCLOSURE ^{AIR} EXHAUSTS INTO THE HANGAR.
BOTH ~~THE~~ ENCLOSURE AND HANGAR AIR ARE SAMPLED. ^A ~~ONE~~
DECONTAMINATION HOOD USED FOR CLEANING SAMPLE TUBES
EXHAUSTS THROUGH A HEPA FILTER INTO THE HANGAR.

10. POSTING AND LABELING

a. Posting and labeling in accord with 10CFR 20.203: Yes No

b. Comment: THERE ARE NO RADIATION AREAS, THE GAS TEST
CART AND URANIUM CYLINDER STORAGE ARE POSTED
AS WELL AS THE ENRICHED STANDARD STORAGE SHELF

11. RECEIPT AND TRANSFER OF MATERIAL

a. Procedures for picking up and receiving packages (10CFR 20.205 (b)(c)):

Yes No

1) Incoming shipments monitored: Yes No

2) Records of monitoring maintained (10CFR 20.401(b)): Yes No

3) Records reviewed by NRC inspector: Yes No

4) Period reviewed: 1975-76

b. Procedures for opening packages (10CFR 20.205(d)): Yes No

c. Comment: DUE TO CLASSIFICATION, CONTAMINATED (LSA)
EQUIPMENT IS SHIPPED ON EXCLUSIVE USE VEHICLES.
THEY HAVE ONLY RECEIVED TWO 50^g SA CYLINDERS
OF UF₆ & A DOZEN ENRICHED STANDARDS FROM
WARRIDGE SINCE BEING LICENSED.

d. Records of receipt and transfer of material available (30.51(a); 40.61(a);

70.51(b)(1)): Yes No

1) If "Yes" review of records was made by inspector: Yes No

2) Period Reviewed: 1975 - 76

3) Comments: OK.

e. Packages on hand meet labelling requirements (49CFR 173.399):

Yes No

Comments: OK

f. Reports to commission required by L/C or regulation submitted:

Yes No

Comments: None required

12. PERSONNEL RADIATION PROTECTION - EXTERNAL

a. ~~Film~~ or TLD badge supplier TELEDYNE ISOTOPES WESTWOOD, N.J.

b. Badge exchange frequency 25 QUARTERLY, REST N 25, ANNUALLY

c. Reports reviewed by J. FELDSCHER

e. Records reviewed for period 1975 to 1977 by NRC inspector

f. NRC forms or equivalent

1) NRC-4 (20.102(b)): Yes No Complete: Yes No

2) NRC-5 (20.401(a)): Yes No Complete: Yes No

Maximum whole body quarterly exposure: 50 mrem (A FLYER)

Maximum extremity quarterly exposure: NONE TAKEN

3) Comment: QUARTERLY BADGES WERE MOSTLY 0 WITH
A FEW 10-20 MREM FLYERS.

g. Pocket dosimeters used: Yes _____ No

1) Type used: _____

2) Frequency of recharging: _____

3) Frequency of reading: _____

4) Comment: NOT APPLICABLE

h. Direct radiation surveys of restricted and/or unrestricted areas being made:

Yes No _____

1) Records of surveys being maintained: Yes No _____

2) Records of surveys reviewed: Yes No _____

3) Period reviewed: 1976-77

4) Comments: COUNTS ARE DETECTABLE ONLY ON UF₆ CYLINDERS
HEELS WHERE DAUGHTERS ARE CONCENTRATED. ~~A TARD SAM~~
AT 2" THEY HAVE LESS THAN 10,000 C/M.

13. PERSONNEL RADIATION PROTECTION - INTERNAL

a. Potential for exposure of individuals to airborne radioactive materials exists: Yes No _____

1) If "Yes" does program for monitoring and control exist: Yes No _____

2) Program for monitoring and control appears adequate: Yes No _____

b. Comments: FOUR FIXED AIR SAMPLERS, 3 IN TEST FACILITY, 1 IN
HANGAR OUTSIDE, TWO CAMS ONE IN MASS SPEC
LAB AND ONE BESIDE AIR EXHAUST FROM TEST SILO.

c. Respiratory protection program required by L/C or application:

Yes _____ No

1) If "Yes" were respiratory protection procedures reviewed:

Yes _____ No _____

2) Respiratory protection procedures appear adequate: Yes _____ No _____

3) Comments: WELCH RESP. (^{HALF} FULL FACE) WITH HF ~~CANISTERS~~ AND PARTICULATE CANISTERS ARE REQUIRED FOR GAS TESTING & TRANSFERS. ^{FULL FACE WELCH} THE RESP. ARE LOCATED IN STRATEGIC PLACES FOR EMERGENCIES. ^{AND} OXYGEN MASKS, ^{AND} STERILIA GUARD STATION.

d. Bioassay program required: Yes No _____

1) If "Yes" was bioassay program reviewed: Yes No _____

2) Bioassay program appear adequate: Yes No _____

3) Comments: SIX EMPLOYEES HANDLING U ARE SAMPLED ^(A) MONTHLY. THE REST ANNUALLY. TELEDYNE HANDLES THEIR PROGRAM. THEY ARE AWAITING REG. GUIDE ON SOLUBLE U BIOASSAY PROGRAMS.

e. Smears and air samples

1) Monitoring for airborne radioactivity is conducted (20.103):

Yes No _____

a. Records of monitoring reviewed: Yes No _____

b. Period reviewed: 1976-77

c. Records of monitoring appears adequate: Yes No _____

2) Smear surveys being conducted (20.201, b): Yes No _____

a. Records of smear surveys reviewed: Yes No _____

b. Period reviewed: 1976

c. Records appeared adequate: Yes No _____

3) Comments: TWO EBERTLINE CAMs in OPERATION, OMP IN MASS SPEC. LAB. ONE BY SILO AIR EXHAUST. FOUR FIXED EBERTLINE RAS-1 AIRSAMPLERS, THREE IN TEST FACILITY ONE IN HANGAR OUTSIDE TEST FACILITY, CHANGED ² DAILY

14. LEAK TESTS

- a. Leak tests required: Yes _____ No
- b. If "Yes" leak tests conducted: Yes _____ No _____
- c. Records of leak tests maintained: Yes _____ No _____
- d. Leak tests records reviewed: Yes _____ No _____
- e. Period reviewed: _____
- f. Records of leak tests appear adequate: Yes _____ No _____
- g. Comments: _____

15. RADIOACTIVE EFFLUENT CONTROL AND WASTE DISPOSAL

- a. Byproduct material released to atmosphere and/or sewer (20.106 and 20.303):
 Yes _____ No
- b. Records of releases or radioactive effluents maintained (20.401):
 Yes _____ No
 - 1) Period reviewed: _____
 - 2) Records appear adequate: Yes _____ No _____
- c. Solid waste disposal method: 55 GAL DRUMS TO TELEDYNE
 - 1) Records of disposal maintained (30.51): Yes No _____
 - 2) Surveys of waste prior to disposal made (20.201): Yes No _____
 - 3) Period reviewed: 1976 77
 - 4) Records of surveys appear adequate (20.401): Yes No _____
- d. Comments: WASTE LIQUIDS ARE ABSORBED IN DIATOMATIONS
EARTH IN THE DRUMS. VF. WASTES ARE CAUGHT IN
COLD TRAPS AND RETURNED TO ORNL.

16. SHIPPING INCIDENTS

a. Have any shipping incidents occurred since (date) April 1974, None

1) Was incident documented: Yes _____ No _____

2) If "Yes" documentation appears adequate: Yes _____ No _____

b. Comments (reports to DOT, etc.): _____

17. NOTIFICATIONS AND REPORTS

a. Licensee in compliance with 10CFR 19.13 (reports to individuals):

Yes No _____

b. Licensee in compliance with 10CFR 20.405 (over exposures):

Yes No _____

c. Licensee in compliance with 10CFR 20.403 (incidents):

Yes No _____

d. Licensee in compliance with 10CFR 20.402 (theft or loss):

Yes No _____

e. Comments: _____

18. POSTING OF NOTICES

a. Licensee in compliance with 10CFR 19.11(a) or (b): Yes _____ No

b. Licensee in compliance with 10CFR 19.11(c): Yes No _____

c. Comments: ALTHOUGH ALL RECS, LICENSE, AND PROCEDURES WERE AVAILABLE, A POSTED STATEMENT HAD NOT BEEN MADE. THIS WAS DONE BEFORE THE INSPECTION WAS CONCLUDED. THEY WERE PROVIDED WITH AN UP-TO-DATE NRC-3.

19. ENVIRONMENTAL MONITORING PROGRAM

a. Environmental Monitoring Program required: Yes _____ No

b. If "Yes" records reviewed: Yes _____ No _____

c. Period reviewed: _____

d. Records appeared adequate: Yes _____ No _____

e. If Environmental Program is not required, briefly describe any existing program: _____

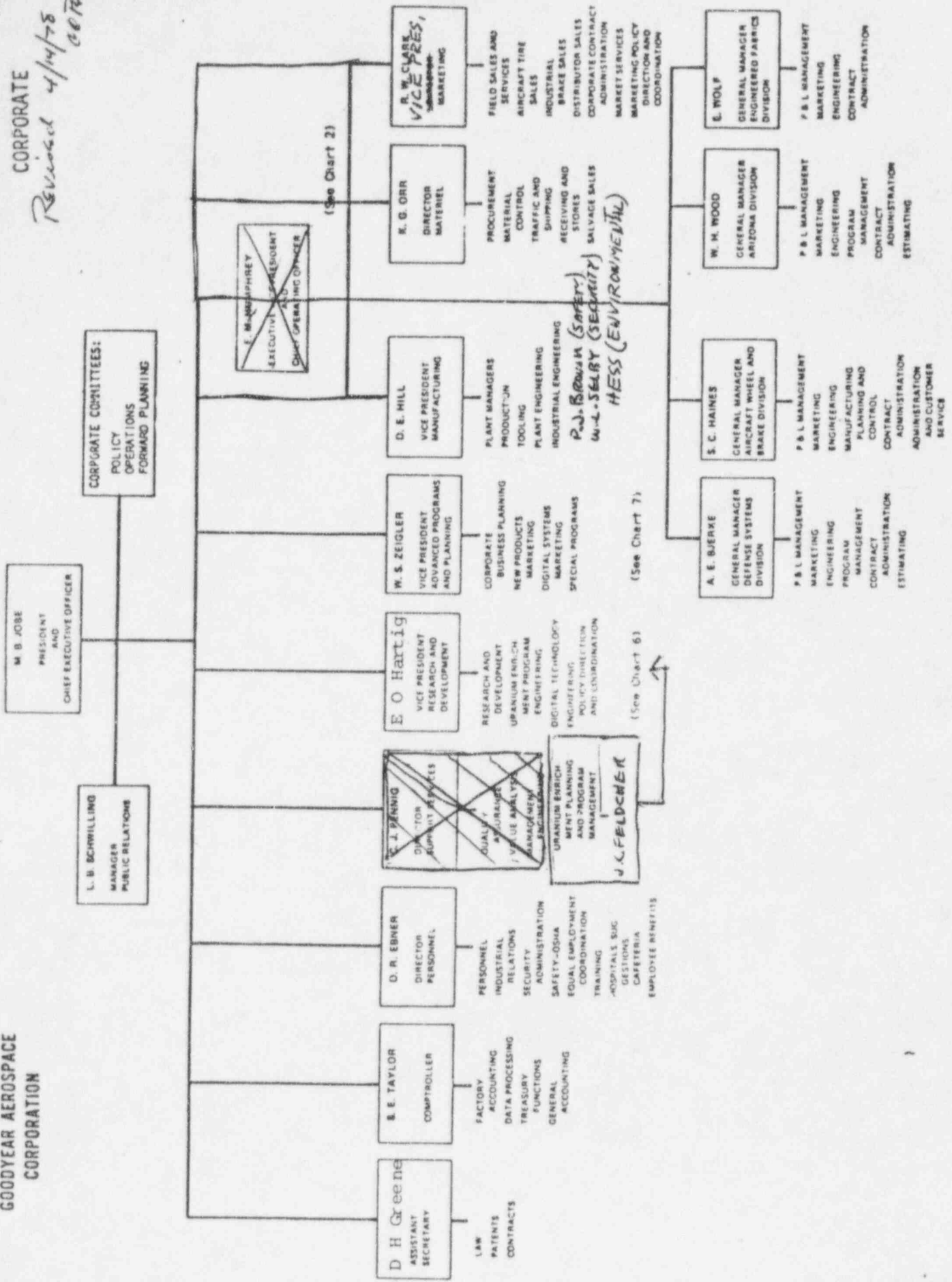
20. CONFIRMATORY MEASUREMENTS

a. Independent measurements made by inspector: Yes _____ No

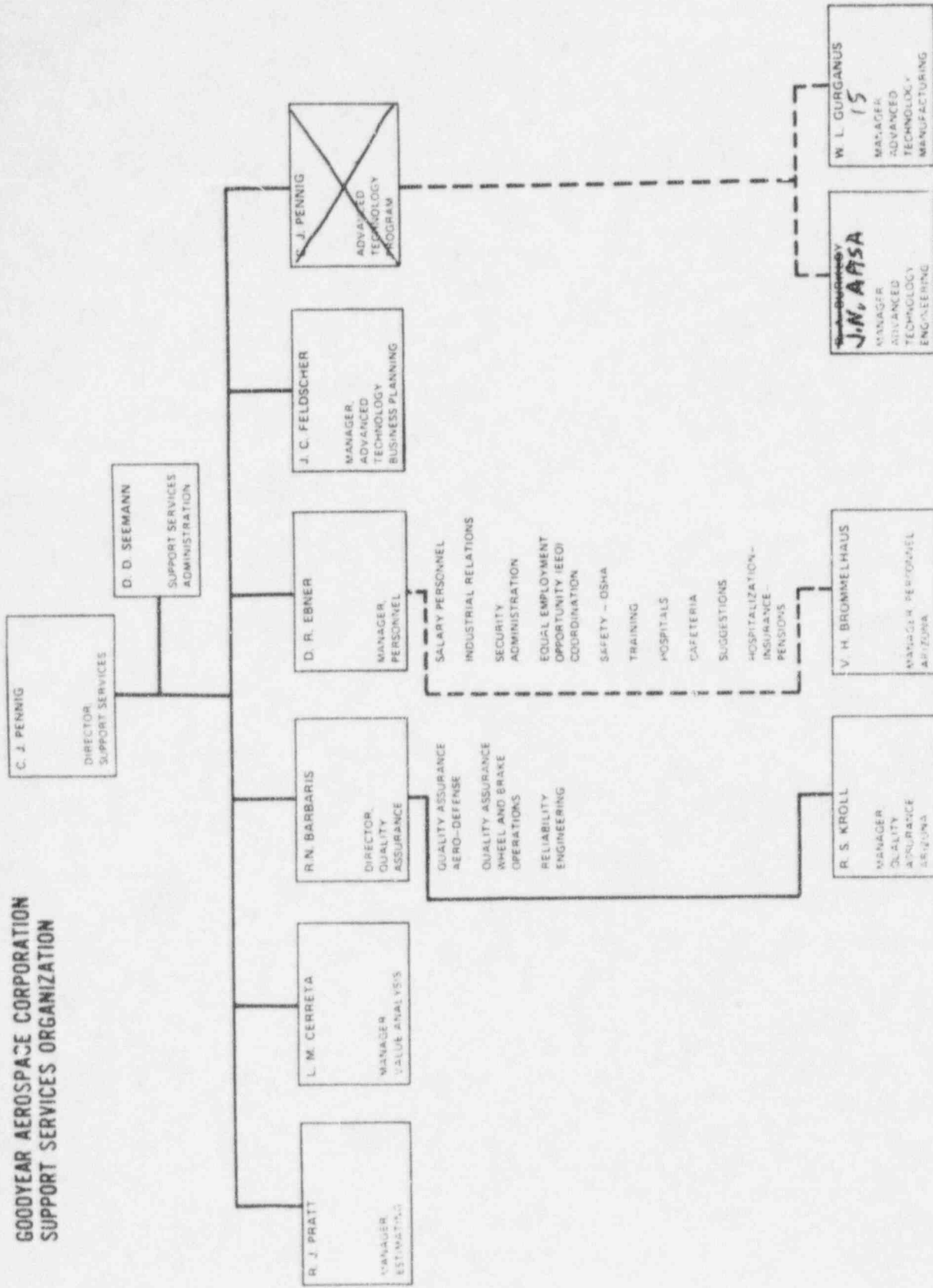
b. Comments (describe type, results, comparison with licensee results): _____

GOODYEAR AEROSPACE CORPORATION

RECEIVED 4/19/77
 100
 CORPORATE
 Revised 4/14/78
 COTRAC



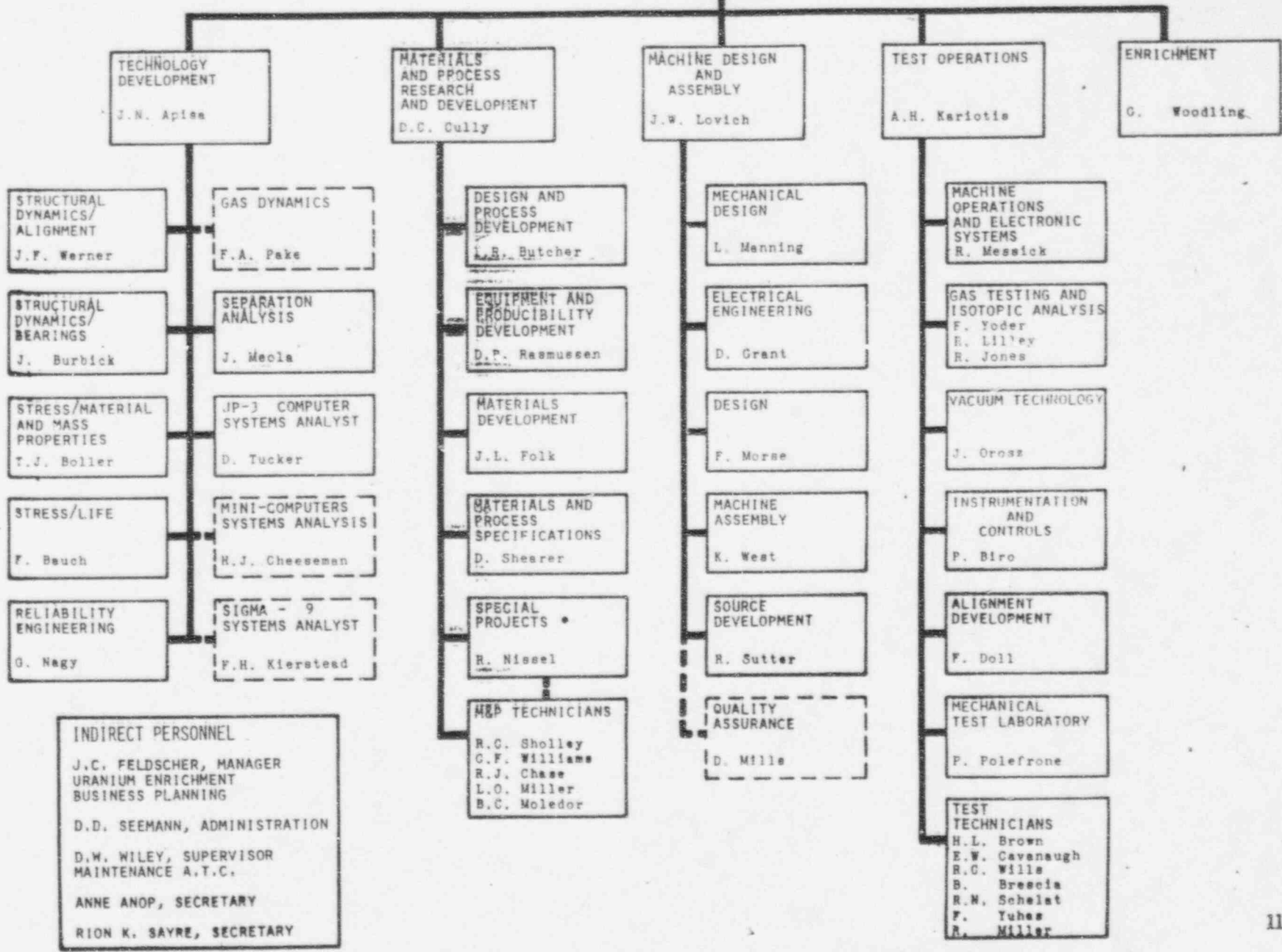
**GOODYEAR AEROSPACE CORPORATION
SUPPORT SERVICES ORGANIZATION**



APPROVED

 C. J. PENNIG, DIRECTOR SUPPORT SERVICES

MANAGER, URANIUM
ENRICHMENT EQUIP.
ENGINEERING
J.N. APISA



INDIRECT PERSONNEL
 J.C. FELTSCHER, MANAGER
URANIUM ENRICHMENT
BUSINESS PLANNING
 D.D. SEEMANN, ADMINISTRATION
 D.W. WILEY, SUPERVISOR
MAINTENANCE A.T.C.
 ANNE ANOP, SECRETARY
 RION K. SAYRE, SECRETARY

