

UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION III 799 ROOSEVELT ROAD GLEN ELLYN, ILLINOIS 60137

Attached INSPECTION REPORT NO. 2901 Of Appendix A GOODY EAR TIRE & RUBBER CO. (Licensee name/address) () Appendix B 142 GODYEAR BLUD. () Appendix C AKRON OHIO AASIG () Memo Telephone No: 216/79A-4197 License No. SEE BACK of PAGE Last amendment & date: Docket No ._ & Priority: ,as of last amendment. Category:__ Inspection date(s): 6-879 Type of inspection: UNANNOUNCED SUMMARY OF FINDINGS AND ACTION () Noncompliance, 591 issued () No noncompliance, clear 591 Or Regional action () Hq action Od Noncompliance, Appendix A () Supplemental info, App C () Action on previous 1/c, App B RECOMMENDATIONS See basis in Appendix C or attached memo. () Change Priority to:____ () Change Category to:____ () Next ins ection date: 6-82 PERSONS CONTACTED (NAME AND TITLE) P.J. REILLY, PH.D. PRINCIPAL AUTH. USER R.R. DI ROSSI AUTH USER * Indicates those attending management meetings Inspector: Co. H. Schutz 9903030187 990223 PDR FOIA POST98-341

9903030187 1700

MC 1005

LICENSE NO.	DOCKET NO.	CAT.	PRIORITY	AMEND. & DATE	
34-00508-03	03005627	K	7	100.10	3-8-78
34-00508-04	03007038	E	4	No.12	5-15-78
34-00508-06	0300 5628	E	4	100.21	8-24-78

INSPECTION REPORT NUMBER 2900

APPENDIX A - DOCUMENTATION OF NO COMPLIANCE

Reference	Besis for noncrepliance
Report from 1A. of 10 CFR Lic Cond 13. A Type n/c 1NF.	Colo SEPILED SOURCES IN POOL IRRADIATOR NOT LEAK TESTED AT 6 MONTH INTER AB REQUIRED. NO. LEAK TEST BETWEEN 8-A-76 AND 8:29-77 AND NONE BETWEEN 8-9-78 AND 3-6-29
Report 1tem	
10 CFR	
Type n/c	
Report ftem	
10 CFR	
Type 1/6	
Report Item	. 200
10 CFR	
Type N/c	
Report ftem	
10 CFR	
Type n/c	

		INDUSTRIAL - ACADEMIC INSPECTION REPORT 34-00508-09 Amend. No. 12
Lic	cense	ee: GOODYEAR TIRE & RUGGER CO. Lic. No.34-00508-06 Amendment No. 21
Deat	te of	1 Inspection: 6-8-79 34-00508-03 Ameng. No. 10
1.	INS	SPECTION HISTORY
	a.	Items of noncompliance or safety items noted during last inspection
		conducted on 1-15-76 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:
	ORG	ANIZATION
	a.	Organizational structure as described in application or letter
		Dated, or SEE BELOW
	b.	List primary licensee contact: P.J. REILLY, PH.D. Telephone No.: 216/794-4197
	c.	Comment:
		DR. REILLY IS THE PRINCIPAL AUTH. USER UNDER THE
		-04 AND -06 LICENSE AND ALL INDIVIDUAL USERS
		UNDER THESE LICENSES REPORT TO HIM.

	SUM	MARY OF LICENSED PROGRAM (Kind of program, number of people, rate of use or
	quai	ntities on hand, places and frequency of use, type, quantity and use as
	auti	norized).
	(-	04 LICENSE) POOL TYPE IRRADIATOR CONTAINING 6,580
	C	DRIES OF COO (5-79). CONCRETE WELL 6'X3' X 17' DEEP
	15	LINED WITH 1/4" THICK WELDED ALUMINUM LINER USED
		R IRRADIATION OF PLASTICS & RUBBER.
- 4		6 LICENSE) BROAD R&O LICENSE - PROGRAM IS ESSENTIAL
		ACTIVE AT PRESENT. WHEN ACTIVE THE PROGRAM IN-
		LUES MOSTLY USE OF C'A FOR TRACER STUDIES.
		gory and priority of this license is appropriate: Yes No
		No" state new Category Priority
1	INTE	RNAL AUDITS OR INSPECTIONS
8	a.	Required by L/C or application: Yes No If "Yes":
		1) By whom
		2) Frequency Announced: Unannounced:
		3) Scope
		A) Records maintained: Yes No
	:	5) Records reviewed: Yes No
		6) Period Reviewed:

5.

Tr	aining program specified in L/C or application: Yes No L
	training program is required, describe scope of program:
le	training required: YesNo
f	"Yes" is retrainging: Complete Incomplete
)	Are tests and/or examinations required: YesNo
)	If "Yes" are records available: YesNo
1)	Reviewed test results: Yes No
)	Period reviewed:
	Comment (per cent completed, test results, etc.):
va	ining provided, but not covered shove: Authorizes 1250s 10
	ining provided, but not covered above: AUTHORIZED USERS HA
	OME ACADEMIC BACKGROUND BUT MOST TRAINING
	S ON-THE- JOB. FOR -OA LICENSE, EACH USER HAS
	OPY OF OPERATING PROCEDURE FOR IRRADIATION FACILI
2	ory 19450 AT CONTROL PANEL OF IRRADIATION FACIL
ne	structions to workers in accord with 10CFR 19.12: Yes No
_	
	ARTERIA PROPERTY OF A PROPERTY OF A STATE OF

6,

RAI	DIOLOCICAL PROTECTION PROCEDURES
4.	THE OF THE AND MAKE BEILD HALEAUTED TOR - OA LICENSE ONLY
	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 V No
	4) Appeared Adequate: Yes No
	5) Comments (personnel's understanding of procedures):
	PERSONNEL INTERVIEWED WERE VERY FAMILIAR
	WITH CONTENTS OF EMERGENCY & OPERATING PROCEDURES
	FOR THE POOL TYPE IRRADIATOR
ь.	Changes in procedures since last inspection: YesNo
	1) Were changes authorized: YesNo
	2) Comments:
	EMERGENCY INSTRUCTIONS FOR USE OF COGO
	IRRADIATION FACILITY WERE UPDATED & SUBMITTED
	WITH LETTER DATED 1-12-78
INST	TRUMENTATION
a.	Type(s) of radiation survey instruments on hand as per L/C, application or
	equivalent: Yes V No No
	1) If "No" list changes:

1	capability of radiation survey instruments adequate for program:
	Yes No
(Calibration of instruments required: YesNo
6	I. If "Yes" instruments calibrated in accord with requirements:
	YesNo
e	
	PENNISE HOUSES LANGE LANGE LOSS
	REQUIRED. HOWEVER, LICENSEE USES A NOMINAL
	200 m Ci Co SEALED SOURCE TO CHECK INSTRUMENT
. M	RESPONSE EACH TIME BEFORE ENTERING THE IRRADIATION AREA
a	Radioactive meterial record
	Radioactive material secured to prevent unauthorized removal from:
	1) Restricted area: YesNo
	2) Unrestricted area (20.207): Yes No
b.	Method of control appears adequate: YesNo
c.	
FA	CILITIES
a.	Facilities described in latter
b.	Facilities described in letter or application: Yes No
	Facilities inspected: Yes No
с.	COMMENT: NO CHANGE SINCE LAST INSPECTION
	Control of the contro

9.

0. · P	OSTING AND LABELING
a	. Posting and labeling in accord with 10CFR 20.203: Yes No
ь	
. RE	CEIPT AND TRANSFER OF MATERIAL
a.	Procedures for picking up and receiving packages (10CFR 20.205 (b)(c)):
	Yes No No
	1) Incoming shipments monitored: Yes No
	2) Records of monitoring maintained (10CFR 20.401(b)): YesNo
	3) Records reviewed by NRC inspector: Yes No
	4) Period reviewed:
ь.	
c.	Comment:

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: ONLY COO RECEIVED SINCE LAST
	3) Commen 8: INSPECTION. THIS MAT'L WAS RECEIVED 5-79
	AND WAS ADDED TO POOL TO INCREASE SOURCE
	STRENGTH TO 6,580 CORIES
e.	Packages on hand meet labelling requirements (49CFR 173.399):
	YesNoN/A
	Comments:
f.	Reports to commission required by L/C or regulation submitted:
	YesNoN/A
	Comments:
PER	SONNEL RADIATION PROTECTION - EXTERNAL
a.	Film or TLD badge supplier SEARLE ANALYTI
ь.	Badge exchange frequency BI-WEEKLY
c.	Reports reviewed by INDUSTRIAL HYGIENE (CORPORATE RSO) WITH
e.	Records reviewed for period 5AN. 1978 to DEC. 1978 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 questerly exposure: 176 mgem
	Maximum extermity quarterly exposure: pot monitoren
	TOO TAGISTIONES

g. Pocket dosimeters used: Yes No 1) Type used: 2) Frequency of recharging: 3) Frequency of reading: 4) Comment:	
g. Pocket dosimeters used: Yes No 1) Type used: 2) Frequency of recharging: 3) Frequency of reading: 4) Comment:	
g. Pocket dosimeters used: Yes No 1) Type used: 2) Frequency of recharging: 3) Frequency of reading: 4) Comment:	
2) Frequency of recharging: 3) Frequency of reading: 4) Comment:	
2) Frequency of recharging: 3) Frequency of reading: 4) Comment:	
3) Frequency of reading:	
4) Comment:	
h. Direct radiation surveys of restricted and/or unrestricted	
Yes No	
1) Records of surveys being maintained: lesNo	
2) Records of surveys reviewed: Yes No	
3) Period reviewed:	
4) Comments: SURVEYS OF IRRADIATION	
MADE & LEVELS IN UNRESTRICTED ARE	
164 - 10 - 10 /	
LESS THAN CMK/HR	unit (gini Alimaga amang aga or egilor agrander danakkay aga kati ngkarawa da birangan a
PERSONNEL RADIATION PROTECTION - INTERNAL	
a. Potential for exposure of individuals to airborne radioact:	ive materials
exists: Yes No	
1) If "Yes" does program for monitoring and control exist:	Yes No
2) Program for monitoring and control appears adequate:	
b. Comments:	

	8 No
1)	If "Yes" were respiratory protection procedures reviewed:
	YesNo
2)	Respiratory protection procedures appear adequate: YesNo
3)	Comments:
	passay program required: Yes No
1)	If "Yes" was bloassay program reviewed: YesNo
2)	Bioassay program appear adequate: Yes No
1)	Comments:
	Comments:
Sme	ars and air samples
	Comments: ars and air samples Monitoring for airborne radioactivity is conducted (20.103):
Sme	ars and air samples Monitoring for airborne radioactivity is conducted (20.103): YesNo
me	ars and air samples Monitoring for airborne radioactivity is conducted (20.103): YesNo a. Records of monitoring reviewed: YesNo
me	ars and air samples Monitoring for airborne radioactivity is conducted (20.103): YesNo a. Records of monitoring reviewed: YesNo b. Period reviswed:
Gme	ars and air samples Monitoring for airborne radioactivity is conducted (20.103): YesNo a. Records of monitoring reviewed: YesNo b. Period reviewed: c. Records of monitoring appears adequate: YesNo
Gme	ars and air samples Monitoring for airborne radioactivity is conducted (20.103): YesNo a. Records of monitoring reviewed: YesNo b. Period reviswed: c. Records of monitoring appears adequate: YesNo Smear surveys being conducted (20.201, b): YesNo
Sme	ars and air samples Monitoring for airborne radioactivity is conducted (20.103): YesNo a. Records of monitoring reviewed: YesNo b. Period reviswed: c. Records of monitoring appears adequate: YesNo Smear surveys being conducted (20.201, 5): YesNo a. Records of smear surveys reviewed: YesNo
Sme	ars and air samples Monitoring for airborne radioactivity is conducted (20.103): YesNo a. Records of monitoring reviewed: YesNo b. Period reviewed: c. Records of monitoring appears adequate: YesNo Smear surveys being conducted (20.201, b): YesNo a. Records of smear surveys reviewed: YesNo b. Period reviewed:
me.	ars and air samples Monitoring for airborne radioactivity is conducted (20.103): YesNo a. Records of monitoring reviewed: YesNo b. Period reviswed: c. Records of monitoring appears adequate: YesNo Smear surveys being conducted (20.201, 5): YesNo a. Records of smear surveys reviewed: YesNo

Li	AK TESTS
4.	Leak tests required: YesNo
ь.	If "Yes" leak tests conducted: Yes No
c.	
d.	
e.	Period reviewed: 1-15-76 To 6-8-79
f.	Records of leak tests appear adequate: YesNo
8.	Comments: THE COO IRRADIATION FACILITY POOL WAS LEAK (No
	TESTED AT 6 MONTH INTERNALS EXCEPT NONE SETWEEN
	8-4-76 AND 8-29-77 AND BETWEEN 8-9-78 AND 3-6-79
	BOTH INTERVALS ARE GREATER THAN 6 MONTHS AND
	CONSTITUTE PONCOMPLIANCE WITH LIC. COND. NO. 13.A
PAT	
IONE	IOACTIVE EFFLUENT CONTROL AND WASTE DISPOSAL
а.	Byproduct material released to atmosphere and/or sewer (20.106 and 20.303):
	Yes No V
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: TRANSFER TO LICENSED DISPOSAL CO.
	1) Records of disposal maintained (30.51): Yes No
	2) Surveys of waste prior to disposal made (20.201): Yes No
	Period reviewed: Records of surveys appear edocute (20 (01)). We
,	4) Records of surveys appear adequate (20.401): YesNo
a.	Comments: NO WASTE DISPOSED SINCE LAST INSPECTION
	NO WASTE PROJUCED UNDER THE -OA LICENSE AND
	THE -06 LICENSE IS ESSENTIALLY INACTIVE AT PRESENT

	Have any shipping incidents occurred since (date) NonE
	1) Was incident documented: Yes No
	2) If "Yes" documentation appears adequate: YesNo
b.	Comments (reports to DOT, etc.):
	IFICATIONS AND REPORTS
a.	Licensee in compliance with ICCFR 19.13 (reports to individuals):
	Yes No 10/A
b.	Licensee in compliance with 10CFR 20.405 (over exposures):
	Yes No N/A
c.	Yes No N/A: Licensee in compliance with 10CFR 20.403 (incidents):
c.	
	Licensee in compliance with 10CFR 20.403 (incidents):
	Licensee in compliance with 10CFR 20.403 (incidents): YesNoN/A
d.	Licensee in compliance with 10CFR 20.403 (incidents): YesNoN/A Licensee in compliance with 10CFR 20.402 (theft or loss): YesNoN/A
d.	Licensee in compliance with 10CFR 20.403 (incidents): YesNoN/A Licensee in compliance with 10CFR 20.402 (theft or loss): YesNoN/A Comments: THE LICENSEE NOTIFIED NRC RTD BY LETTER DATED
d.	Licensee in compliance with 10CFR 20.403 (incidents): Yes No NA Licensee in compliance with 10CFR 20.402 (theft or loss): Yes No NA Comments: THE LICENSEE NOTIFIED NRC, RTT, BY LETTER DATED (6-1-79 THAT SEVERAL CASEAL SERVES SOURCES WHICH ARE
d.	Licensee in compliance with 10CFR 20.403 (incidents): YesNo N/A Licensee in compliance with 10CFR 20.402 (theft or loss): YesNo N/A Comments: THE LICENSEE NOTIFIED NRC, RTT, By LETTER DATED 6-1-79 THAT SEVERAL C'A SERVED SOURCES WHICH ARE USED IN GAUGES WERE LEAK TESTED IN ACCORDANCE
d. e.	Licensee in compliance with 10CFR 20.403 (Incidents): Yes No N/A Licensee in compliance with 10CFR 20.402 (theft or loss): Yes No N/A Comments: THE LICENSEE NOTIFIED NRC, RTT, BY LETTER DATED (6-1-79) THAT SEVERAL CIA SERVED SOURCES WHICH ARE USED IN GAUGES WERE LEAK TESTED IN ACCORDANCE WITH REQUIREMENTS OF LIC. (DODITION NO. 13.A(1) OF LIC. NO. 3A-00508-03 AND WHEN LEAKAGE IN EXCESS
d.	Licensee in compliance with 10CFR 20.403 (incidents): Yes No N/A Licensee in compliance with 10CFR 20.402 (theft or loss): Yes No N/A Comments: THE LICENSEE NOTIFIED NRC, RTT, BY LETTER DA (6-1-79 THAT SEVERAL CA SERVED SOURCES WHICH ARE USED IN GAUGES WERE LEAK TESTED IN ACCORDANCE
	Licensee in compliance with 10CFR 20.403 (incidents): Yes No N/A Licensee in compliance with 10CFR 20.402 (theft or loss): Yes No N/A Comments: THE LICENSEE NOTIFIED NRC, RTIT, BY LETTER DATE: (6-1-79 THAT SEVERAL C'A SERVED SOURCES WHICH ARE USED IN GAUGES WERE LEAK TESTED IN ACCORDANCE

POS	TING OF NOTICES		
	Licensee in compliance with 10CFR 19.11(a) or (b): Yes No		
b.	Licensee in compliance with 10CFR 19.11(c): Yes No No		
c.	Comments:		
ENV	ENVIRONMENTAL MONITORING PROGRAM		
4.	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:		
CON	FIRMATORY MEASUREMENTS		
a.	Independent measurements made by inspector: Yes No V		
b.	Comments (describe type, results, comparison with licensee results):		
	ENV a. b. c. d. e.		

INDEPENDENT INSPECTION EFFORT
a. Comment on type of independent inspection effort conducted:
WALK THROUGH OF FACILITIES
CONTINUATION FROM PREVIOUS PARAGRAPHS - USE BACK OF PAGE IF NECESSARY
(CONTINUATION OF SECTION 17.2) BY LICENSE COND. NO. 13.C.
ON 5-8-78 LICENSEE HAD 10 GAUGES CONTAINING C'A AND
2 SPARE C' SEALED SOURCES. MAXIMUM CONTAMINATION FOUND
WAS O. ODOA p.Ci. Sources LEAK TESTED AGAIN ON 11-8-78
AND MAX. CONTAMINATION WAS 0.0003 p.C. SEVEN
Sources From GAUGES AT ST. MARY, OHIO PLANT WERE
TRANSFERRED TO AKRON WHIO TO BE USED AS SPARES.
ALL 7 WERE LEAK TESTED WHEN RELEIVED AND ONE WITH
A DAMAGED MYLAR WINDOW SHOWED A MAX. OF 0,0008
A.C. THIS SOURCE WAS DISPOSED AS RADIOACTIVE WASTE.
ANOTHER LEAK TEST ON 5-21-79 SHOWED SOME CONT-
AMINATION OF SPARE SOURCES (< NRC LIMITS) AND LICENSEE
DECIDED TO DECONTAMINATE ALL SPARE SOURCES AND
ONE MOUNTED ON THE # 4 PRODUCTION GAUGE. A
VISUAL CHELL SHOWED THE MYLAR WINDOW ON 2 SPARES
AND THE # A GAUGE WAS DETERIORATED AND THESE
3 Sources WERE DISPOSED INTO A WASTE DRUM. ALL 3
WERE < 0,005 p.C. ALL REMAINING SPARES WERE
CLEANED WITH ISOCIEAN SOLUTION ON 5-30-79 AND
/

ItEM 22 CONTINUED

LEAK TESTEY AGAIN. THIS TEST SHOWED 2 SPARE SOURCES HAD 0.7 pull and 0.03 pull of REMOVABLE. CONTAMINATION. THESE 2 SOURCES WERE SEALED IN A 1 GALLON PAINT CAN AND PLACED IN A 55 CALLON DRUM FOR SUSSEQUENT DISPOSAL AS RADIOACTIVE WASTE. THE LEAKAGE APPARENTLY RESULTED FROM THE DECONTAMINATION EFFORT AND THE SOURCES WERE NOT ON A GAUGE WHEN THE PROGLEM OCCURRED. THEREFORE, THERE WAS NO CONTAMINATION OF FITHER EQUIPMENT OR FACILITIES. NO FURTHER ACTION EQUIPMENT OR FACILITIES. NO FURTHER ACTION