030-20704 L= 01258 03124

	Form 313 I U (12-81) CFR 30	S. NUCLEAR REGULATORY (Check and/or complete as appropriate)
	APPLICATION FOR	BYPRODUCT MATERI	AL LICENSE	a. NEW LICENSE
See a	attached instructions for details.			b. AMENDMENT TO: LICENSE NUMBER
Office Washi	leted applications are filed in de of Nuclear Material Safety, an ington, DC 20555 or application H Street, NW, Washington, D.	d Safeguards, U.S. Nuclear Reg ns may be filed in person at the	commission, e Commission of fice at	C. RENEWAL OF: LICENSE NUMBER X 37 01258 04
Jo	PLICANT'S NAME (Institution, ines & Laughlin Steettsburgh Works		3. NAME AND TITLE OF PERI REGARDING THIS APPLICA A. A. Mammarelli,	C/S NOITA
TEL	EPHONE NUMBER: AREA COL 12) 227-5640	DE - NUMBER EXTENSION	(412) 227-5940	EA CODE - NUMBER EXTENSION
sho	PLICANT'S MAILING ADDRES didress to which NRC corresponde hold be sent.) 109 East Carson Stre 5203 Attn: J. A.	et, Pittsburgh, PA	5. STREET ADDRESS WHERE (Include Zip Code) 2709 East Carson S Pittsburgh, PA 152	
	(IF MORE SPACE IS	NEEDED FOR ANY ITEM,	USE ADDITIONAL PROPER	RLY KEYED PAGES.)
6. IN	DIVIDUAL(S) WHO WILL U	JSE OR DIRECTLY SUPER	VISE THE USE OF LICENSED	MATERIAL
(S	ee Items 16 and 17 for required t		dividual named below)	TITLE
	FULL N	AME		
a. D.	E. Griener		Unit Manager-By Pr	roduct Department
ь Ј.	. S. Cogis		Maintenance Engine	eer-Electrical
c. W.	. B. Quinn		Operations Superv	isor-Maintenance
7. RA	A. Palmieri, Opera		Attach a resume of person's trai 16 and 17 and describe his respo	ning and experience as outlined in Items nsibilities under Item 15.
	. A. raimieri, opera		DMATERIAL	
LINE	ELEMENT AND MASS NUMBER	CHEMICAL AND/OR PHYSICAL FORM	NAME OF MANUFACTURES AND MODEL NUMBER (If Sealed Source)	MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D
NO.	A	В	Texas Nuclear	No single source to
(1)	Cesium 137	Sealed Source	Mod. 570-57157C	exceed 1000 millicurie
(2)			Teles Transcer	
(3)				
(4)				
		DESCRIBE USE OF	LICENSED MATERIAL	
(1)	To determine dens	ity of coal on conve	evor belt.	
(2)	To the state of th			02134
		50306 860828		
(3)	nnp 1	FOIA B6-583 PDR		FEB 1 7 1994

		9	STORAGE OF S	SEALED SOURCE	ES	
2-Zm0.	CONTAINER AND	OR DEVICE IN WHICH E STORED OR USED. A.	ACH SEALED	NAME OF	MANUFACTURER B.	MODEL NUMBER
(1)	source holde	r		Texas Nucle	ear	5176
(2)						
31						
(4)					19.57 19.54	
_		10 RA	DIATION DETEC	TION INSTRUM	MENTS	
	TYPE	MANUFACTURER'S	MODEL	NUMBER	RADIATION	SENSITIVITY
L-ZEO.	OF INSTRUMENT	NAME B	NUMBER	AVAILABLE	DETECTED (alpha, beta, gamma, neutron) E	RANGE (milliroentgens/hour or counts/minute) F
(1)	G-M	Victoreen	493 w/ 493-50 prob	e 1	Alpha, Beta, Gamma	0 - 0.5
2)						
3)						
(4)						
		11. CALIBR	ATION OF INSTE	RUMENTS LISTI	ED IN ITEM 10	
	pplied Health	Physics, Bethel	RSONNEL MON!	TORING DEVIC	ES	
	(Check and/or comple		(SUPPLIER Service Company)		EXCHANGE FREQUENC
	THERMOLUMINES			one Required		☐ MONTHLY ☐ QUARTERLY
DOSIMETER (TLD)				OTHER (Specify):		
						- 1-1804 - 674 2-4
-	13. FACILITIES	AND EQUIPMENT (C	heck were approp	riate and attach a	annotated sketch(es) a	and description(s).
	STORAGE FACILI	ACILITIES, PLANT FACIL TIES, CONTAINERS, SPE NG TOOLS OR EQUIPME ROTECTIVE EQUIPMENT	NT, ETC.			
a. N	AME OF COMMERCI	AL WASTE DISPOSAL SE		DISPOSAL	Con Abronia I	
8	E USED FOR DISPOS	ING OF RADIOACTIVE	WASTES AND ESTI	MATES OF THE T	YPE AND AMOUNT OF	DF METHODS WHICH WILL FACTIVITY INVOLVED. IF MANUFACTURER, SO STA

INFORMATION REQUIRED FOR ITEMS 15, 16 AND 17

Describe in detail the information required for Items 15, 16 and 17. Begin each item on a separate page and key to the application as follows:

- 15. RADIATION PROTECTION PROGRAM. Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bioassay procedures (if needed), day-to-day general safety instruction to be followed, etc. If the application is for sealed source's also submit leak testing procedures, or if leak testing will be performed using a leak test kit, specify manufacturer and model number of the leak test kit.
- 16. FORMAL TRAINING IN RADIATION SAFETY. Attach a resume for each individual named in Items 6 and 7. Describe individual's formal training in the following areas where applicable. Include the name of person or institution providing the training, duration of training, when training was received, etc.
 - a. Principles and practices of radiation protection.
 - Radioactivity measurement standardization and monitoring techniques and instruments
 - Mathematics and calculations basic to the use and measurement of radioactivity.
 - d. Biological effects of radiation.
- 17. EXPERIENCE. Attach a resume for each individual named in Items 6 and 7. Describe individual's work experience with radiation, including where experience was obtained. Work experience or onthe-job training should be commensurate with the proposed use. Include list of radioisotopes and maximum activity of each used.

18. CERTIFICATE

(This item must be completed by applicant)

The applicant and any official executing this certificate on behalf of the applicant named in Item 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 30, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

WARNING.-18 U.S.C., Section 1001: Act of June 25, 1948: 62 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

a. LICENSE FEE REQUIRED (See Section 170.31, 10 CFR 170)	b. CERTIEYING OFFICIAL (Signature)
\$110.00	c. NAME (Type or print) R. B. Vest
(1) LICENSE FEE CATEGORY: 3L	d. TITLE General Manager-Coke & By Products
(2) LICENSE FEE ENCLOSED: \$110.00	e. DATE = /2/84

NRC FORM 313 I (12-81)

GPO 886-426

Attached Sheet - Form NRC 313I (12-81)

Jones & Laughlin Steel Corporation Pittsburgh Works 2709 East Carson Street Pittsburgh, PA 15203

Item 12 - Personnel Monitoring Devices

No additional personnel monitoring devices are required due to the presence of this nuclear device. The source holder is designed so that it is unlikely that any person, during normal usage, can receive an exposure in excess of 0.125 Rem per year. The radiation levels at one foot from the nearest accessible surface are less than 5 millirem per hour.

Because of open-beam geometry, the nuclear device and detector are totally surrounded by an expanded, locked metal cage (see enclosed sketch). Radiation levels outside of the metal cage are, at all points, less than 0.2 mr/hr with the exception of a point directly behind the detector. Personnel access at that point is extremely remote and not possible during normal operations.

No persons are normally within three feet of the nuclear device during normal operations.

Item 13 - Facilities and Equipment

Enclosed is a sketch which describes the specific installation of the Texas Nuclear model 5176 nuclear device and detector in accord with manufacturer's recommendations.

Item 14 - Waste Disposal

In the event that the nuclear device is damaged or its use discontinued, the device containing the radioactive material will be returned to the manufacturer or other persons specifically licensed by the Commission or Agreement State to receive the kind and quantity of radioactive material.

Item 15 - Radiation Protection Program

A. Shipment and Receipt

The nuclear device will be shipped from the manufacturer with the shutter mechanism in the locked "closed" position and will remain locked in that

Attached Sheet - Form NRC 313I (12-81)

position at all times until the device is properly installed in its fixed location.

B. Installation

Installation of the nuclear device shall be performed by authorized J&L Steel Corporation personnel under the supervision of authorized Texas Nuclear personnel in accordance with Texas Nuclear installation procedures.

Authorized Texas Nuclear personnel will be in attendance at the time of uncrating, installation, and start up on the system.

Initial radiation surveys and leak testing will be performed by Texas Nuclear authorized personnel at the time of installation.

C. Operating Procedures

Operation of the nuclear device will be in accord with the manufacturer's recommendations contained in the instruction manuals supplied.

D. Access Into The Expanded Metal Cage Enclosure

Personnel access into the expanded metal cage surrounding the nuclear device and detector will be controlled at all times by hasp and lock devices located on the connecting panels of the cage (see enclosed sketch).

Entry into the inside of the cage will be restricted to only authorized personnel for necessary inspections, calibration, and/or maintenance of equipment.

When entry inside the cage is required, a brief radiation survey will be performed by the Radiation Safety Officer or his authorized representative in order to assure that the radiation levels are normal as previously determined. The one panel adjacent to the nuclear device will be unlocked and removed and the shutter mechanism will be placed in the "closed" position in the presence of the Radiation Safety Officer or his authorized representative. The Radiation Safety Officer or his authorized representative will verify that the shutter mechanism is in the "closed" position by conducting a radiation survey before permitting removal of further panels of the cage and before permitting personnel entry into the enclosed area.

The shutter mechanism will remain in the "closed" position until it has been verified by the Radiation Safety Officer or his authorized representative that no personnel remain in the enclosed area. All removable panels of the cage will be replaced and locked except for the panel closest to the nuclear devices. The shutter mechanism will then be placed in the open position by the Radiation Safety Officer or his authorized representative, and the final panel of the cage will be replaced and locked.

Attached Sheet - Form NRC 313I (12-81)

A radiation survey will again be conducted by the Radiation Safety Officer or his authorized representative to assure that the radiation levels outside the expanded metal cage enclosure remain the same as previously determined.

The keys to all the locks on the cage and the nuclear device on-off mechanism will be under the direct control of the Radiation Safety Officer at all times.

E. Maintenance And Repair

Radioactive source replacement and maintenance and repair of the nuclear device will only be performed by Texas Nuclear or other persons specifically authorized by the Commission or an Agreement State to perform such services.

Servicing, maintenance, and repair of equipment other than the nuclear device used as part of the installation will be conducted by Jones & Laughlin Steel Corporation authorized personnel.

F. Relocation And Reinstallation

As required, removal, relocation, and reinstallation of the nuclear device will be performed by authorized Jones & Laughlin Steel Corporation personnel under the supervision of the Radiation Safety Officer (i.e. at such times as necessary for maintenance or repair of the equipment in that area, etc.) in accord with the following procedures:

- The Radiation Safety Officer or his authorized representative will first conduct a radiation survey to assure normal radiation levels outside the expanded metal cage enclosure.
- 2. If the radiation levels are normal, the one panel adjacent to the nuclear device will be unlocked and the on-off mechanism will be placed in the "closed" locked position. The Radiation Safety Officer or his authorized representative will verify that the on-off mechanism is in the "closed" locked position by conducting a brief radiation survey.
- Other locked panels of the cage may then be removed, as required, and the nuclear device removed from its fixed position.
- 4. The nuclear device with legible caution labels will be removed to a locked, secure storage area, if necessary, until deemed necessary to reinstall it to its fixed location.

The on-off mechanism will remain in the "closed" locked position at all times until it is returned to its fixed location.

Attachment Sheet - Form NRC 313I (12-81)

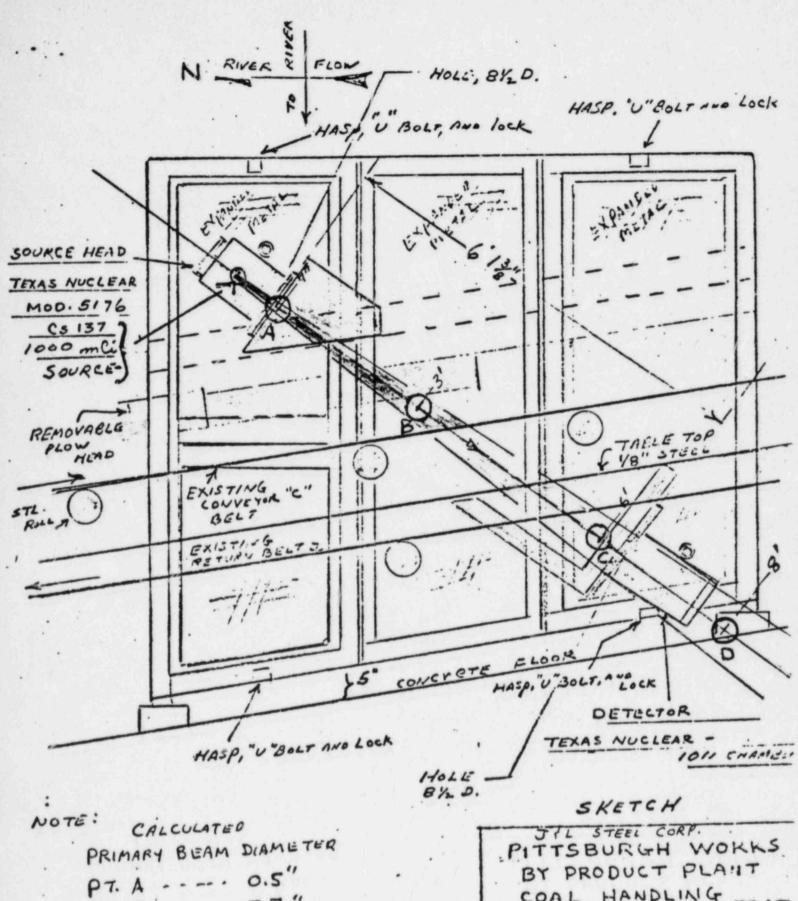
- After reinstallation of the nuclear device, all panels of the cage except the one nearest to the nuclear device will be replaced and locked.
- The on-off mechanism will be unlocked and placed in the open position.
- 7. The remaining panel of the cage will be replaced and locked.
- 8. A radiation survey again will be performed by the Radiation Safety Officer or his authorized representative to assure that the radiation levels outside the cage are the same as previously determined prior to removal of the nuclear device.

G. Leak Test Procedure

The nuclear device (source holder) will be tested for source integrity at least once every three years by authorized Texas Nuclear personnel or authorized Jones & Laughlin Steel Corporation personnel using Texas Nuclear Corporation mailable leak test kit, QT/1K.

H. Emergency Procedures

In the event of an emergency involving the sealed source or nuclear device, such as physical damage, fire, etc., the on-off mechanism will be placed in the "closed" locked position. The Director of the appropriate NRC Compliance Office will be notified together with the corporate Safety and Environmental Health personnel in order to provide health physics assistance, as necessary. Texas Nuclear will also be notified to provide any additional assistance as deemed necessary.



PT. A ---- 0.5" - - . 3.7 " PT. C - - - - 7.0" PT. D - - - - . 9.0"

COAL HANDLING 42" BELT CONV. "C" BULK DENSITY CONTROL

1.	DEPARTMENT	Administrative Division of Plant or Facility under which personnel received supervision regarding use of ionizing radiation source.
2.	IONIZING RADIATION	Any device or material capable of producing ionizing radiation.
3.	TRAINING:	
	A. TYPE OF TRAINING	As categorized in the 5 listed groups.
	B. WHERE TRAINED	Organization under which training was received (i.e. university, civil defense, research laboratories, industrial plant etc.)
	C. DURATION OF	(1) On Job – training received while working with ionizing radiation source(s) under supervision of experienced personnel.
		Time _ time spent in On Job training, days, weeks, months (i.e. 6 mos July 1954 - Dec. 1954).
		(2) Formal — organized training session or course provided by, or under, supervision of a qualified person(s). Course
		Time — same as above.
4.	EXPERIENCE	
	A. EXPERIENCE	To include actual working with ionizing radiation sources (as defined above), other than training period(s).
	B. TYPE OF	그 그 사람들은 사람들이 가장 하면 하면 되었다. 그는 사람들은 살이 되어 있다. 그 그 것이 없다.
	IONIZING	To include ALL types of ionizing radiation source(s) as defined above.
	RADIATION	
	C. SIZE OR RATING	In terms of max. KVP and MA in the case of radiation producing equipment.
	MAX . QUANTITY	In terms of amounts of radioactive materials (i.e.) millicuries of radioactive isotopes or pounds of natural radioactive materials.
	D. WHERE EX-	
	PERIENCE	Administrative organization under which individual received experience.
	GAINED	
	E. DURATION OF	Total time of ACTUAL work with ionizing radiation source, exclusive of training.
	C. DONATION OF	Total tills of the core from the family family to the core of the

Actual purpose or use of ionizing radiation source during time experience was gained.

USE OF

Mame John S. Cogis

JONES & LAUGHEIN STEEL CORPORATION

(See Heverse Silv to Instructions)

Plant Pittsburgh Works

Address 2709 East Carson Street, Pittsburgh, PA 15203

TEXTRING AND EXPERIENCE WITH IONIZING RADIATION OF PERSONNEL OF

_____ By Product Coke Department (Department)

Maintenance Engineer-

Job Title Electrical

Date 1-27-5.

TORIZING RADIATION TRAINING

			Charles and the law	
			DURATION OF	TRAINING
TYPE OF TRAINING	WHERE TRAINED	ON JOB	TIME	FORMAL COURSE
Principles and Practices of Radiation	None			
i rotection.				
2. Undisactivity (Radiation) measurements, standardization, and manitoring tech- arques and instrumentation.				
Trithematics and calculations basic to use and measurement of radioactivity tradiation).				
Evological effects of radiation.				
to actual use of ionizing radiation				
() escribe source:				

	IONIZING RADIATION EXPERIENCE				
TYPE OF IONIZING RADIATION	SIZE OR RATING OR MAX. QUANTITY	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	USE OF IONIZERS PADIATION SOUPCH	
tione					

1.	DEPARTMENT	Administrative Division of Plant or Facility under which personnel received supervision regarding use of ionizing radiation source.
2.	IONIZING RADIATION	Any device or material capable of producing ionizing radiation.
3.	TRAINING: A. TYPE OF TRAINING	As categorized in the 5 listed groups.
	B. WHERE TRAINED	Organization under which training was received (i.e. university, civil defense, research laboratories, industrial plant, etc.)
	C. DURATION OF	(1) On Job – training received while working with ionizing radiation source(s) under supervision of experienced personnel.
		Time _ time spent in On Job training, days, weeks, months (i.e. 6 mos July 1954 - Dec. 1954).
		(2) Formal — organized training session or course provided by, or under, supervision of a qualified person(s). Course
		Time — same as above.
4.	EXPERIENCE	
	A. EXPERIENCE	To include actual working with ionizing radiation sources (as defined above), other than training period(s).
	B. TYPE OF	
	IONIZING RADIATION	To include ALL types of ionizing radiation source(s) as defined above.
	C. SIZE OR RATING MAX . QUANTITY	In terms of max. KVP and MA in the case of radiation producing equipment. In terms of amounts of radioactive materials (i.e.) millicuries of radioactive isotopes or pounds of natural radioactive materials.
	D. WHERE EX- PERIENCE GAINED	Administrative organization under which individual received experience.
	E. DURATION OF	Total time of ACTUAL work with ionizing radiation source, exclusive of training.

F. USE OF Actual purpose or use of ionizing radiation source during time experience was gained.

1114

TONES & LAUGHERT STELL CORPORATION

Plant_Pittsburgh_Works_____ Address 2709 East Carson Street, Pittsburgh, PA 15203



(See Helense Side for Nestrections)

PRESIDENT AND EXPERIENCE WITH IONIZING RADIATION OF PERSONNEL OF _____

By Product Coke Interterent (Department)

0. F. Griener	Job Title Unit Manager IONIZING RADIATION TR				
		DURATION OF TRAINING			
TYPE OF TRAINING	WHERE TRAINED	ON JOB	TIME	FORMAL COURSE	
rinciples and Practices of Radiation	None				
inscriptly (Radiation) measurements, and adiation, and monitoring tech-					
se and measurement of radioactivity					
analogical effects of radiation.					
to actual use of issuring radiation					

IONIZING RADIATION EXPERIENCE

TYPE OF IONIZING RADIATION	SIZE OR RATING OR MAX. QUANTITY	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	USE OF IONIZING PADIATION SOURCE
NOME				

1. DEPARTMENT	Administrative Division of Plant or Facility under which personnel received supervision regarding use of ionizing radiation source.
2. IONIZING RADIATION	Any device or material capable of producing ionizing radiation.
3. TRAINING:	
A. TYPE OF TRAINING	As categorized in the 5 listed groups.
B. WHERE TRAINED	Organization under which training was received (i.e. university, civil defense, research laboratories, industrial plant, etc.)
C. DURATION OF	(1) On Job – training received while working with ionizing radiation source(s) under supervision of experienced personnel.
	Time _ time spent in On Job training, days, weeks, months (i.e. 6 mos July 1954 - Dec. 1954).
	(2) Formal — organized training session or course provided by, or under, supervision of a qualified person(s). Course
	Time — same as above.
4. EXPERIENCE A. EXPERIENCE	To include actual working with ionizing radiation sources (as defined above), other than training period(s).
B. TYPE OF	
IONIZING RADIATION	To include ALL types of ionizing radiation source(s) as defined above.
C. SIZE OR RATING MAX . QUAN ITY	In terms of max. KVP and MA in the case of radiation producing equipment. In terms of amounts of radioactive materials (i.e.) millicuries of radioactive isotopes or pounds of natural radioactive materials.
D. WHERE EX- PERIENCE GAINED	Administrative organization under which individual received experience.
E. DURATION OF	Total time of ACTUAL work with ionizing radiation source, exclusive of training.
F. USE OF	Actual purpose or use of ionizing radiation source during time experience was gained.

13.1

TORES & LABORER STELL CORPORATION

 (See Decree Sele-Instructions)

CONTRACTOR OF A PERSONNEL OF A PERSONNEL OF A

By Preduct Cole reports at a (Department)

Mars William B. Quinn

Job Title Maintenance Soc. Sec. No.

c. No.

Date 1-37-

TONIZING RADIATION TRAINING

			1	URATION O	FIRAIMING	
	TYLE OF TRAINING	WHERE TRAINED	ON JOB	TIME	FORMAL COURSE	109
	Principles and Practices of Radiation	Continuing education - PA State University - "Short Course on Industrial Radiation and Radioisotope Handling", Pittsburgh, PA			Yes	
	Mathematics and calculations basic to use and measurement of radioactivity realisation).				" (27. first, (2-17-70) (2-16-16)
1.	malagical effects of radiation.					(tt-J-2m
	In actual use of ionizing radiation (b. scribe source: CO 60, 5 mCl	"				

IONIZING RADIATION EXPERIENCE

TYPL OF IOHLING RADIATION	SIZE OR RATING OR MAX. QUANTITY	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	USE OF IONIZING PAPIATION SOURCE
Costinu 137	1000 mCi	JEL Steel, Pittsburgh Works	4-77 to present	Coal density gauge, TB Med. 517-

1	1. DEPARTMENT		Administrative Division of Plant or Facility under which personnel received supervision regarding use of ionizing radiation source.					
2	2. IONIZING RADIATION		Any device or material capable of producing ionizing radiation.					
3	A.	NING: TYPE OF TRAINING	As categorized in the 5 listed groups.					
	В.	WHERE TRAINED	Organization under which training was received (i.e. university, civil defense, research laboratories, industrial plant, etc.)					
	C.	DURATION OF	(1) On Job – training received while working with ionizing radiation source(s) under supervision of experienced personnel.					
			Time _ time spent in On Job training, days, weeks, months (i.e. 6 mos July 1954 - Dec. 1954).					
			(2) Formal — organized training session or course provided by, or under, supervision of a qualified person(s). Course					
			Time — same as above.					
	A.	ERIENCE EXPERIENCE	To include actual working with ionizing radiation sources (as defined above), other than training period(s).					
	В.	TYPE OF IONIZING RADIATION	To include ALL types of ionizing radiation source(s) as defined above.					
	C.	SIZE OR RATING MAX. QUANTITY	In terms of max. KVP and MA in the case of radiation producing equipment. In terms of amounts of radioactive materials (i.e.) millicuries of radioactive isotopes or pounds of natural radioactive materials.					
	D.	WHERE EX- PERIENCE GAINED	Administrative organization under which individual received experience.					
	E.	DURATION OF	Total time of ACTUAL work with ionizing radiation source, exclusive of training.					
	F.	USE OF	Actual purpose or use of ionizing radiation source during time experience was gained.					

JOHES & LAUGHEIN STILL CORPORATION

Plant Pittsburgh Works _ _ _ _

Address 2709 East Carson Street, Pittsburgh, PA 15203

(See Discree Sale)

TO SEED OF PERSONNEL OF

111

By Product Coke Department

Lane Frank A. Palmieri

Operations Supervisor-Job Title Maintenance

Soc. Sec. No.

Date

IONIZING RADIATION TRAINING

			DURATION OF TRAINING						
	TYPE OF TRAINING	WHERE TRAINED	801 110	TIME	FORMAL COUPLE				
	Principles and Practices of Radiation Protection.	Continuing Education - 1 State Univ"Short Course on Industrial Radiation and Radioisotope Handling", Pittsburgh, PA			Yes				
	Materialistic, (Madiation) measurements, instantiation, and monitoring techniques and instrumentation.	nanding , Fictsburgh, Th			"				
	Mathematics and calculations basic to use and measurement of radioactivity (radiation).				"	Cont. = 70) Cont. = 8 = 70)			
4.	Biological effects of radiation.				"	(10-2-70)			
	In actual use of ionizing radiation Describe source: CO 60 - 5 mCi				.)				

IONIZING RADIATION EXPERIENCE

IONIZING RADIATION EXPERIENCE								
TYPE OF TOMESTION	SIZE OR RATING OR MAX. QUANTITY	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	USE OF IONIZING RADIATION SOURCE				
Cestua 137	1000 mCi	J&L Steel Corp., Pittsburgh Works	4-79 to present	Coal density gauge, TR Mod. 51775				