hain an	(Under t	the Paperwork Reduction	Act and Executive Ord	der 12291)					
Important — Read instr form. Submit the require with the material for whi	ed number of cop			tion and Regulatory A ment and Budget 20503	Ifairs				
1. Department/Agency			3. Name(s) and telephone number(s) of person(s) who can best answer questions regarding request						
U.S. Nuclear R			Don Hopkins (301) 443-5825						
2.6-digit Agency/Burea Account No.)		part of 11-digit Treasury	4. 3-digit functional code (last part of 11-digit Treasury Account No.)						
3	5_0		2 7 6	Concerning and the second se					
Title of Information Co			P.L. 96-511? (Che	g submission under Si ck one)	ection 3504(h) of				
Survey of Rad	iloactive Mat	terial Shipment Data							
				ected date of publication xpected date of publication					
A. Is any information involved? (Check of		ting or recordkeeping)	E	ffective date:					
1 🕅 Yes and proposa	I is attached for rev	lew	D. At what phase of ru (Check one)	lemaking is this subm	hission made?				
2 Ves but proposal		skip to question D.							
3 No - skip to que			1 Ø Not applicable	DM etcas					
B. Are the respondent		to Federal education	2 Major rule, at NPRM stage 3 Major Final rule for which no NPRM was published						
programs?			4 Major Final rule, after publication of NPRM						
Yes KOK No		그 것이 같이 많이 많이 했다.	5 D Nonmajor rule, at NPRM stage						
			6 Nonmajor rule, at Final stage						
. Current (or former) O	MB Number	8. Requested Expiration Date	12. Agency report form	number(s)					
N/A		Expiration Date	N/A						
Expiration Date		9/30/82	13. Are respondents on □ Yes _ Ø No	ly Federal agencies?					
. Is proposed informat		led in	14. Type of request (Ch	neck one)					
the information colle	ction budget?	Yes XINO	1 🗆 preliminary plan						
 Will this proposed in cause the agency to collection budget al amendment reques 	o exceed its infor llowance? (If yes	mation s, attach Yes No	ago) 3 □ revision	sly approved or expired n tment to burden only)	nore than 6 months				
1. Number of report fo	rms submitted fo	r approval	5 🗆 extension (no chi						
1			6 🗆 reinstatement (e)	(pired within 6 months)					
15.		16. Classification of Chang	ge in Burden (explain in :	supporting statement,	1				
a Approximate size of universe (if sample)	13,000		No. of Responses	No. of Reporting Hours	Cost to the Public				
b Size of sample	1,800	a. In inventory	N/A	N/A	s N/A				
c. Estimated number of		b. As proposed	1,100	18,050	\$				
respondents or record keepers per year	1,100	c. Difference (b-a)			s				
d. Reports annually by each respondent (item 25)	1	Explanation of differ	ence (indicate as many i	as apply)					
e. Total annual responses (item 15c x 15d)	1,100	d Correction-error	<u>+</u>	+	<u>+</u> \$				
	1,100	e. Correction-reestima	te +	+	<u>+</u> \$				
I. Estimated average number of hours per response	16.41	f. Change in use	±	±	<u>+</u> \$.				
	10.41	Program changes							
g Estimated total hours of annual burden in				1	4.6				
Fiscal Year (item 15e x 151)	18,050	g. Increase	+ 1,100	+ 18,050	+ \$				
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K.

REQUEST FOR OMB REVIEW

17. Abstract-Needs and Uses (50 words or less)	
The NRC, together with the Department of Trans regulate safe transportation of radioactive ma will be conducted to provide United States shi Energy Agency for its world wide environmental	aterial. Survey of current activity ipment data to the International Atomic
18. Related report form(s) (give OMB number(s), IRCN(s), internal agency report form number(s) or symbol(s))	20. Catalog of Federal Domestic Assistance Program Number N/A
N/A	21. Small business or organization XI Yes I No
 19. Type of affected public (Check as many as apply) 1 individuals or households 2 state or local governments 3 farms 4 businesses or other institutions (except farms) 	22. Type of activity of affected public—indicate 3-digit Standard Industrial Classification (SIC) code(s) (up to 10) — if over 10, check
23. Brief description of affected public (e.g., "retail grocery stores," "St	ate education agencies," "households in 50 largest SMSAs")
Radioactive material shippers	
 24. Purpose (Check as many as apply. If more than one, indicate predominant by an asterisk) application for benefits program evaluation general purpose statistics regulatory or compliance program planning or management research 25. Frequency of Use Nonrecurring Recurring icheck as many as apply) on occasion semiannually weekly annually biennially quarterly other-describe: 28. Authority for agency for information collection or rulemaking-indicate statute, regulation, judicial decree, etc.Environmental Protection Act of 1969 Atomic Energy Act of 1954, as amended Energy Reorganization Act of 1974 29. Respondent's obligation to reply (Check as many as apply) 	 26. Collection method (Check as many as apply) 1 Imail self-administered 2 other self-administered 3 Imail self-administere 3 Imail self-administere 3 Imail self-administere 3 Imail self-administer 3 Imail self-admini
1 ☑ voluntary 2 □ required to obtain or retain benefit	notice.) Yes X No 32. Cost to Federal Government of 675,000
3 mandatory — cite statute, not CFR (attach copy of statutory authority)	information collection or rulemaking \$675,000
COMPLETE ITEMS 33 THRU 35 C	DNLY IF RULEMAKING SUBMISSION
33. Compliance costs to the public 34. Is there a regulatory analysis attached?	impact 35. Is there a statutory or judicial deadline affecting issuance?
\$ U res U No	
CERTIFICATION BY AUTHORIZED OFFICIALS SUBMITTING REQUEST – W review is necessary for the proper performance of the agency's functions, that consistent with need, and is consistent with applicable OMB and agency policy	the proposal represents the minimum public burden and Federal cost
APPROVING POLICY OFFICIAL FOR AGENCY DATE Patricia G. Norry Dhang 7-22-82	SUBMITTING OFFICIAL DATE

OMB SUPPORTING STATEMENT FOR SURVEY OF RADIOACTIVE MATERIAL SHIPMENT DATA

Justification

The Nuclear Regulatory Commission, together with the U.S. Department of Transportation, establish standards for and regulate the safe transportation of radioactive material. To evaluate these standards and the effectiveness of the regulatory program, the environmental impacts associated with the standards and with any changes to those standards must be evaluated. Environmental impact evaluations are required under the provisions of the National Environmental Policy Act (Public Law 91-190). The first comprehensive evaluation of the impacts associated with transportation standards was completed in 1977 and issued as "Final Environmental Statement on the Transportation of Radioactive Material by Air and Other Modes," NUREG-0170, dated December 1977.

That environmental impact evaluation was based on a survey of radioactive material shipments and their safety related characteristics done for NRC in 1975. Subsequent to that survey, changes have occurred in the radioactive material transportation system which could cause significant changes in the associated environmental impacts. Because of a beycott against radioactive material packages by the Airline Pilots Association, many packages of radioactive material formerly carried on passenger aircraft are now carried by truck. In related actions, Congress required that DOT restrict packages of radioactive material carried by passenger aircraft to those associated with esearch or medical applications, and DOT approved an exemption for a number of carriers to carry more radioactive material packages in sole use cargo aircraft than previously allowed. In addition, although we projected increases in numbers of radioactive material packages in transportation over the years, we do not yet have a benchmark by which to validate those projections.

NRC plans call for the updating of its final environmental statement on transportation (NUREG-0170) starting in FY 1984. Because of the significant changes in the system of transportation for radioactive material since 1975, the existing data base for numbers and radioactivity characteristics of radioactive material shipments is considered inadequate for this purpose, making necessary the new survey.

The primary objective of the survey is to gather information on the numbers and radioactivity characteristics of radioactive material shipments within the United States. A number of approaches, including on-site interviews with licensees, were considered for gathering the necessary information. The survey method was selected as the most cost-effective for obtaining comprehensive and reliable data.

The primary use of the radioactive material shipment data is as input radioactivity data to an environmental impact evaluation. The data will also be used to provide United States shipment data to the International Atomic Energy Agency for its world wide environmental risk analysis. It is expected that the shipment data

will also be used, probably by the Federal Emergency Management Agency (FEMA), as a basis for advising State and local emergency response organizations as to the type of shipments for which emergency response preparations should be made.

The only similar information available is from the 1975 survey, which is now considered inadequate for the primary purpose to be served.

The plans for this survey have been coordinated with representatives, at the federal level, of the Department of Erergy, the Department of Transportation, and with FEMA, the major agencies which would work with this type of information.

The respondent burden is directly dependent on radioactive material shipment activity, with the smaller companies normally incurring the lesser burden. A detailed estimate of the respondent burden is included on page 4.

Only one copy of the response is requested.

Description of Survey Plan

Description of Potential Respondent Universe

The data collection form will be mailed to a sample of radioactive material shippers. The most current version of NUREG-0020--facilities licensed by NPC--and 26 agreement-state lists will be combined to create the sample frame. From the approximately 5,000 NRC licensees and 8,000 Agreement State licensees, a sample of 1,800 shippers will be selected. Data will be collected from calendar year 1981.

2. Description of Sample Design

All NRC and agreement state shippers will be organized into sampling strata reflecting major industrial/commercial categories which ship radioactive materials. A special sampling stratum will be constructed consisting of the most active shippers of radioactive materials. All companies (400) falling into this active shipper stratum will be included in the sample. Other companies (1,400) will be selected at random.

3. Description of Survey Design

Sampled companies (1,800) will be asked to compile shipping data for a specific time period and submit it on the subject data collection form.

4. Description of Pre-test Activity

The data collection form was pretested with nine companies: at least one company was selected from each of the major industrial/commercial categories. Shipping companies we had previously contacted in our exploratory research phase were selected for the pretest. In addition to the form, the instructions (and cover letter) were examined for possible changes. As a result of the pretest, coding explanations were explained more adequately for field use.

5. Expected Response Rates and Methods to Maximize it

Surveys using the previously described methodology usually attain at least a 60% response rate. In order to maximize the expected response (1100) we are using these procedures:

- a. A telephone call to locate the actual person filling out the form (the ability of the form to be directly sent to the appropriate respondent accounts for non-response in many surveys involving major companies).
- b. A follow-up reminder postcard.
- c. A follow-up phone call to encourage response among the most active shippers.
- A second mailing to all other sampled companies.

Response in the context of this study involves not just numbers of companies responding, but the ability to obtain data from the most active shippers of radioactive materials. Our most extensive efforts to obtain response will be with respect to the most active shippers.

6. Disposition of Information Containing Organizational Identifiers

Each shipping company in the survey is assigned an identification number used only for the purpose of keeping track of completed forms. The data are entered into the computer using these identification numbers and no company names. After the survey is completed, the master list of names and identification numbers is destroyed. This procedure ensures that no data in the computerized data bank will be identified by company names.

Tabulation and Publication Plans

Primary use of the data base will be made by Sandia National Laboratories, Transportation Technology Center (the prime contractor). Sandia will conduct risk assessment and other relevant analyses and accordingly produce reports of their findings. SRI International will produce a summary substantive report modeled after the Batelle National Laboratories 1975 report, NUREG-0073. This report will include summary statistics such as the estimated number of packages shipped, the major radionuclides shipped, package characteristics of the major radionuclides shipped, and major transport modes of packages shipped. In addition, SRI International will produce a technical report specifying the sampling, data collection and analysis procedures used in the project. Further, SRI International will submit a data base to Sandia National Laboratory on computer readable media and instructions on its use.

Consultations Outside the Agency

U.S. Department of Energy U.S. Department of Energy U.S. Department of Transportation Ms. Kathleen A. Carlson Mr. Frank P. Falci Mr. Richard R. Rawl U.S. Department of Transportation Federal Emergency Management Agency Ms. Nancy Simmons Mr. Vern Wingert

Estimate of Compliance Burden

The total respondent burden would be the sum of the time for personnel at each sampled company to compile the necessary shipping data, review the form and instructions, and to complete the form. The respondent burden varies depending upon whether the company is a major shipper of radioactive materials or not. Costs are based on the assumption that professional and clerical personnel will be equally involved.

The largest component of time and cost will be the actual coding of data from shipping records onto the form. We estimate a range of 16-80 hours for major shippers since major shippers can be defined either as a company that makes a few shipments of high level radioactive material (16 hours estimated coding time), or many shipments of lower level radioactive material (80 hours estimated coding time). The average value--32 hours--assumes that 75% of major shippers require 16 hours and 25% require 80 hours. The average value of 6 hours for other shippers is based on similar calculations.

The total burden on the selected sample is estimated at 18,050 hours: initial phone contact with four hundred (400) major shippers x 1/2 hour (200) and fourteen hundred (1400) other shippers x 1/4 hour (350); plus three hundred (300) major shipper respondents x 37 hours (11,100); plus eight hundred (800) other shipper respondents x 8 hours (6400).

Sensitive Questions

Net applicable to this data collection.

Estimate of Cost to Federal Government

The estimated cost to develop the survey form, mailing cost, contractor time, and analysis of findings is estimated at \$675K.

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by using the codes provinces,

umplete this survey for all intra-city radioactive material shipments, except for defense related material because they are classified, as well as shipments to intermediate sites. For waste shipments that go directly to Barnwell, Richland, o ratty burial sites, reproduce the waste shipment papers that correspond to the same time period as that designated for the survey form, and send the copies along with this survey to the address cited balow, on the form,

TEMS I through 5 are self-explanatory.

SHIPHENT DATA

- (1) *. COMMINED - Check this column only if the shipment is an overpack or a shipment to more than one customer at a single destination.
- b. SHIPPING MATE Self-explanatory.
- FORTHING FORTHY Complete only if the shipment has a foreign country destination, use the abbreviations provided below. If an abbreviation for a country not appearing on the listing is used, spell the country out at the top of the form. Indicate the U.S. port of exit in the columns "U.S. DESTINATION OF C. OFSTINATION PORT OF EXIT, CITY, STATE," using the two-letter state codes listed below.

INITED STATES DESTINATION OF PORT OF EXIT - Pull the address off the shipping papers if the items are being delivered within the U.S., spell the City out, and use the two-letter state code from the list-below. If the shipment is to a foreign country, use the U.S. port of exit.

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Calculate and

- d. DISTANCE TRAVELED complete this column only for intra-city distances and remote locations. Do not complete this column for city to city shipments.
- PRIMARY TRANSPORT MONE Use the two letter code provided below. "Then primary mode is by rail, write in "PR" and then the specific rall company, e.g., RR So. Pac., RR Santa Fe, RR Conrall, because an algorithm will be used to calculate distance traveled through specific routes.

A1	Air	116	Inland Haterways	SE	Sea (ship)	OT	Other	
104	Highway	RR	Rail*	115	Matt	UN	Unknown	

f. SOLE USE - Check (v) this column if transportation mode is a sole source vehicle.

- 9. SHIPMENT ACTIVITY Heasure shipment radioactivity, not weight (as a cross-reference, the SHIPPING ACTIVITY in this column should equal the total of values written under PACKAGE ACTIVITY, for all packages in a shipment.) When the units are in microcuries, circle the symbol so it will not be mistaken for millicuries.
 - mC1 Hillicurie(s) g Gram(s) uci) Microcurta(s) C: Curle(s)
- h. SHIPPENI IRANSPORTATION INDEX Measure the transportation index (T.T.), and complete the column provided below. If the shipment T.I. is unavailable, attach a note to the returned survey indicating why it is not available
- 1. NUMMER OF PACKAGES The number of packages should coincide with the number of lines of package data, e.g. If the shipment "NUMBER OF PACKAGES" equals 8, then there should be 8 lines of data under"?. PACKAGE DATA." one for each package.

7 PACKAGE DATA

18

a. RADIONUCLIDE - List the symbol first (no proper names), and then the atomic weight of each radionuclide shipped, all other ways are unacceptable. (Examples I 125, Pu 238, etc.) If symbol and weight are unknown. leave the column blank.

TYPE - Complete this column by using one of the codes listed below. If the radionuclide does not fall within one of the categories cited, leave "TYPE" blank. "IC refers only to those containers with residue that requires radioactive material shipping papers to be completed.

- *EC Empty Container (with residue) **MF Mixed Fission Products** HA Waste (e.g., laundry)
 - SF Spent or Irradiated Fuel

- MC Hixed Corrosion Products SS Sealed Sources
- b. CONE PACKAGE ACTIVITY AMOUNT provide number of units. UNITS, abbreviate: (uCi) Microcurie(s) mCt Millicurie(s) g Gram(s) C1 Curle(s)

FF Fresh Fuel

- c. PACKAGE TRANSPORTATION INDEX The TI measurement for each specific package.
- d. TRANSPORT SROUP Use Roman numberals I through YII, or SP Special Form,

e. PHYSICAL FORM - Use one of the following codes;	٤	PHYSICAL	FORM -	Use	one of	the	following	codes ;	
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	L Ligild Form SN Solid Dispersable	SM Solid, Monalithic SE Solid, Encapsulated	MC Mixed Corrosion Products SP Special Form
۴.	PACKAGE - Use the following TYPE	codes 1	FISSILE CLASS
	SN Small/Limited Quantity LSA Low Specific Activity A Type A	R Type B LQ Type B Large Quantity E Exempt	H Non-Fissile/Exempt 2 Fissile II 1 Fissile 1 3 Fissile III

- 9. LANEL CATEGORY Use one of the following codes: E Exempt WI White 1 Y2 'Yellow 11. Y3 'Yellow 111
- h. END USE Use the following codes which indicate final expected end use. If the product shipped is in an intermediate stage of processing, code the "end use" of the final product when you know it, if known, otherwise if unknown, code the column "UN"

IN Other industrial; weil-logging sources, industrial gauges, miscellaneous industrial uses

- IR Industrial Radiography
- Medical; hospitals, doctors, sources for human use MD
- Power; fuel rods, pellets, fresh fuel PO
- Research and development/academic; sources for teaching/training/education, samples, exploration 80
- Haste; waste for disposal, uniforms for cleaning MA
- Other; dial paint, smoke detectors, civil defense [when known] 10

UN Unknown

SURVEY OF STORTE PACKAGE AND SHIPMENT OF

RADIOACTIVE MATERIAL

DEFINITIONS - The following are the standard definitions used to organize data from shipping papers onto the questionnaire.

SHIPMINT - A customer order of one or more packages being shipped at one point in time from a single point of origin to a single destination (e.g., Company X in Chicago, IL sends five packages to Company C in Gore, OK).

PACKAGE - Radioactive material shipped to a customer in a single box, drum, can or cylinder.

COMMINES More than one shipment to one destination. These data are used only if you do not have shipment date FACKAGE (e.g., Company X in Chicago, it sends three packages in one shipment to San Francisco, CA with one package going to Company A and two packages going to Company B).

INTRA-CLIF - All shipments where the origin and destination are in the same city.

REWITE . ' Trips where radioactive material located in equipment is used at a remote site and then returned to LOCATION The home office or has a of operation; e.g., well logging firms take detection equipment to a site where they are digging a well; it is used at the site than returned to the base of operation, where it may be sent to another location, used, and again returned to the base of operation.

TRANSPOR-

The measured dose rate of radiation 3 feet from the pickage or shipment. (When shipments consist of more than one package, the shipment, and not each package is measured.) TATION INDEX (T.I.) ١.