

Request for OMB Review

DESIGNATED ORIGINAL

PDR
Paulette Smith

Important

Read instructions before completing form. Do not use the same SF 83 to request both an Executive Order 12291 review and approval under the Paperwork Reduction Act.

Answer all questions in Part I. If this request is for review under E.O. 12291, complete Part II and sign the regulatory certification. If this request is for approval under the Paperwork Reduction Act and 5 CFR 1320, skip Part II, complete Part III and sign the paperwork certification.

Send three copies of this form, the material to be reviewed, and for paperwork—three copies of the supporting statement, to:

Office of Information and Regulatory Affairs
Office of Management and Budget
Attention: Docket Library, Room 3201
Washington, DC 20503

PART I.—Complete This Part for All Requests.

1. Department/agency and Bureau/office originating request		2. Agency code	
U.S. Nuclear Regulatory Commission		3 1 5 0	
3. Name of person who can best answer questions regarding this request		Telephone number	
Ben Randall		(301) 492-7721	
4. Title of information collection or rulemaking			
Emergency Telecommunications System (ETS) Implementation			

5. Legal authority for information collection or rule (cite United States Code, Public Law, or Executive Order)

42 USC 2201(c) or

6. Affected public (check all that apply)

1 <input type="checkbox"/> Individuals or households	3 <input type="checkbox"/> Farms	5 <input type="checkbox"/> Federal agencies or employees
2 <input type="checkbox"/> State or local governments	4 <input checked="" type="checkbox"/> Businesses or other for-profit	6 <input type="checkbox"/> Non-profit institutions
		7 <input type="checkbox"/> Small businesses or organizations

PART II.—Complete This Part Only if the Request is for OMB Review Under Executive Order 12291

7. Regulation Identifier Number (RIN)

_____ or, None assigned

8. Type of submission (check one in each category)

Classification	Stage of development	Type of review requested
1 <input type="checkbox"/> Major	1 <input type="checkbox"/> Proposed or draft	1 <input type="checkbox"/> Standard
2 <input type="checkbox"/> Nonmajor	2 <input type="checkbox"/> Final or interim final, with prior proposal	2 <input type="checkbox"/> Pending
	3 <input type="checkbox"/> Final or interim final, without prior proposal	3 <input type="checkbox"/> Emergency
		4 <input type="checkbox"/> Statutory or judicial deadline

9. CFR section affected

_____ CFR

10. Does this regulation contain reporting or recordkeeping requirements that require OMB approval under the Paperwork Reduction Act and 5 CFR 1320? Yes No

11. If a major rule, is there a regulatory impact analysis attached? Yes No
If "No," did OMB waive the analysis? Yes No

Certification for Regulatory Submissions

In submitting this request for OMB review, the authorized regulatory contact and the program official certify that the requirements of E.O. 12291 and any applicable policy directives have been complied with.

Signature of program official	Date
Signature of authorized regulatory contact	Date
9107010167 910624 PDR DRG EUSOMB PDR	

12. (OMB use only)

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OMB SUPPORTING STATEMENT
FOR
EMERGENCY TELECOMMUNICATIONS SYSTEM (ETS) IMPLEMENTATION

Description of the Collection of Information

The U.S. Nuclear Regulatory Commission (NRC) is requesting a one time collection of information to aid in evaluating the feasibility of an upgrade to its Emergency Telecommunications System (ETS). The NRC is requesting Office of Management Budget (OMB) processing of this information collection request. The purpose of this upgrade is to replace the aging Emergency Notification System (ENS) before the existing contract expires in May 1992, and to provide reliable, redundant connectivity between the reactor sites, the NRC Operations Center (NRCOC), and the NRC Incident Response Centers (IRCs) during emergencies at power reactors. The existing emergency communications terrestrial network is susceptible to communication blockages during an emergency and does not provide assured paths for essential lines of communications. Given its emergency response mission, the NRC cannot afford to depend solely on the Public Switch Network (PSN) for its essential communication requirements.

Implementation of the ETS would provide the NRC with both satellite and terrestrial emergency communications networks. Site characterization data from each reactor site is needed to install a cost efficient, reliable ETS. A technical contractor will perform an initial site visit to each of 2 local licensees to determine the scope of the required data as it relates to the actual sites and the proposed ETS upgrade. This sample pilot is expected to take 5 days. The data obtained from these visits will be integrated into existing site characterization information to create a format to be utilized in subsequent visits to the remaining reactor sites. Data obtained from the site visits shall include current information on the plant environmental characteristics, communications cable facilities, site demarcation points and emergency power used by power reactor licensees to monitor their facilities under normal and emergency situations.

A. JUSTIFICATION

1. Need for the collection of information. The mission of the NRC is to protect the health and safety of the public as it relates to the operation of licensed nuclear power facilities. During a nuclear emergency, this task encompasses assessing whether appropriate protective actions are being taken. In order to fulfill this role, in January 1988 the Commission Staff Requirements Memorandum (SRM) dated January 26, 1988 granted approval to utilize the Emergency Telecommunications System (ETS) as the appropriate means to upgrade the NRC's emergency communications. The ETS will consist of both satellite and terrestrial networks to provide redundant paths of communication between the NRCOC and approximately 73 nuclear power plants, 36 off site Emergency Operations Facilities (EOFs), five Incident Response Centers (IRCs), and the Technical Training Center (TTC) during emergency situations. It is essential that data on each site's communications capabilities and environmental

characteristics be collected to determine if the proposed ETS upgrade approach is feasible.

2. Agency Use of Information. The information on the design of the licensees' telecommunications will be used by the NRC's Telecommunications Branch and the Idaho National Engineering Laboratory to design both the ETS satellite and the terrestrial networks.
3. Reduction of Burden Through Information Technology. There are no legal obstacles to reducing the burden associated with this information collection through information technology. However, due to the limited data and the non-recurring nature of this information collection, the burden cannot reasonably be reduced. The ETS implementation will eliminate potential impairment of communication blockages that may be experienced on the PSN during an emergency.
4. Effort to Identify Duplication. Minimal duplication is present. However, current technical data verifying the existing communication layout as it relates to satellite systems at the reactor sites is required to adequately evaluate ETS implementation plans.
5. Effort to Use Similar Information. There is no known data available within the NRC or other federal agencies to provide the site specific information required to design and implement the ETS.
6. Effort to Reduce Small Business Burden. Not applicable. None of the power reactor licensees are classified as small businesses.
7. Consequence of Less Frequent Collection. The information collection is a one time only occurrence.
8. Circumstances which justify variation from OMB guidelines. There is no variation from OMB guidelines.
9. Consultations Outside the NRC. The information collection methods were tested at San Onofre, CA, to determine the appropriateness of NRC procedures and to obtain information on the industry burden. The burden associated with this effort was within the range estimated.
10. Confidentiality of Information. NRC provides no pledge of confidentiality for this collection of information.
11. Justification for Sensitive Questions. No sensitive information normally considered private will be requested.
12. Estimated Cost to the Federal Government. A contractor will perform the major part of the effort for this information

collection. The cost of the contractor's efforts will be approximately \$416K. The collection of information will also require approximately 2784 NRC staff hours (116 sites X 24 hours). Labor cost at \$92 per staff hour will be \$256,128 ($\92×2784 hours). Total cost to the Federal Government will be approximately \$672K.

13. Estimate of Burden.

a. The estimated burden for this information collection ranges from 24 to 40 hours per licensee and averages 32 hours. The details on the burden estimate are provided in Attachment A. The total estimated industry burden is 3,712 hours.

b. The estimated cost per respondent to respond to the collection ranges from \$2,208 ($\$92/\text{hr} \times 24 \text{ hrs}$) to \$3,680 ($\$92/\text{hr} \times 40 \text{ hrs}$) and averages \$2,944 ($\$92/\text{hr} \times 32 \text{ hrs}$). See Attachment A. The total estimated industry burden is \$341,504 (116 sites X 32 hrs X $\$92/\text{hr}$).

14. Reasons for Change in Burden. New Collection.

15. Publication for Statistical Use. Not applicable.

B. COLLECTIONS OF INFORMATION EMPLOYING STATISTICAL METHODS

Statistical methods are not used in the collection of information.

ATTACHMENT A

OMB SUPPORTING STATEMENT FOR ETS IMPLEMENTATION PROGRAM

<u>NUMBER</u> <u>RESPONDENTS</u>	<u>BURDEN HRS PER</u> <u>RESPONDENT (AVG)</u>	<u>TOTAL</u> <u>BURDEN HRS</u>	<u>\$COST PER</u> <u>RESPONDENT</u>	<u>TOTAL</u> <u>\$ COST</u>
116	32	3,712	\$2,944	\$341,504

ATTACHMENT B

U. S. NUCLEAR REGULATORY COMMISSION (NRC) EMERGENCY TELECOMMUNICATIONS SYSTEM (ETS) SITE SURVEYS

The U. S. Nuclear Regulatory Commission (NRC) is currently evaluating an upgrade to its Emergency Telecommunications System (ETS). The purpose of this upgrade is to replace the aging Emergency Notification System (ENS) and to provide improved connectivity between the reactor site, the NRC Operations Center, and the NRC Regional Offices during emergencies at power reactors. The NRC has identified seven communication functions (Emergency Notification System (ENS); Health Physics Network (HPN); Reactor Safety Counterpart Link (RSCL); Protective Measures Counterpart Link (PMCL); Emergency Response Data System (ERDS) Channel; Management Counterpart Link (MCL); and LAN Access) which are essential until an augmented response effort by NRC personnel and other Federal agencies is established at the scene of the emergency. With the exception of ENS, the existing telecommunications network does not provide assured paths for these essential lines of communication. Given its emergency response mission, the NRC cannot afford to depend solely on a single dedicated line (ENS) and on the Public Switch Network (PSN) for the remainder of its essential communications requirements.

The proposed approach to upgrading ETS would consist of both terrestrial and satellite links to provide a highly reliable communication network. The multiple technology approach provides system redundancy and diversity to ensure a high degree of system availability. The terrestrial portion of the ETS upgrade is expected to be carried on the Federal Telecommunications System (FTS 2000). It is estimated that 7-9 telephone lines per site will be necessary to implement the system. FTS 2000 service will be provided using Single Station Access (SSA) at those sites where sufficient telephone cable pairs are available. At those sites where insufficient cable pairs are available, Switched Digital Integrated Service (SDIS), a multiplexed access to the FTS 2000 network, may be necessary.

As a part of this upgrade effort, it is necessary to obtain site specific interface information. Thus, site visits will be performed with the objective of providing the NRC with a detailed assessment of the site (including the Emergency Operations Facility (EOF) telecommunications layout as it applies to the proposed ETS upgrade. A contractor shall perform these site visits and shall address, as a minimum the following items as they relate to your site:

- o Identification of clearly defined plant and EOF telecommunications demarcation points.
- o From a telecommunications wiring perspective, can the EOF be treated as being on-site (i.e. extensions) or off-site (i.e. separate lines)?
- o Information relative to the installation of necessary house and station wiring to accommodate a Very Small Aperture Terminal (VSAT) at the Nuclear Power Plant with a tie line (if necessary) to off-site EOF locations. As a minimum, the following areas should be explored:

- oo Identification of the number (a minimum of 9) of unused telephone cable pairs into the plant and EOF from the local central office. Determination of any plans by the licensee to utilize those facilities within the next 12 months.
- oo Where insufficient cable pairs exist to support SSA installation, determine the availability of adequate facilities (conditioned lines and guaranteed power) to support an SDIS installation of FTS 2000.
- oo Availability of inside wiring at the plant and EOF to connect a minimum of 9 ETS telephone sets and extensions with the terrestrial and satellite networks. Determination of any plans by the licensee to utilize those facilities within the next 12 months.
- oo Determination of the distance and path by which an off-site EOF may be linked into the on-site satellite system.
- oo For off-site EOFs, can diverse routing of the above mentioned tie line, apart from the FTS 2000 lines, be achieved?
- o Explore the potential use of a single VSAT installation at those locations which are shared by more than one utility.
- o Identification of the location and availability of guaranteed power for on-site satellite equipment and if necessary, on-site and/or off-site multiplexers at the demarcation point. (Estimated minimum power requirements for both satellite and terrestrial systems is 600W, 110V.)
- o Telephone cabling, guaranteed power sources, ancillary communications equipment, and plant facility requirements should be reviewed to ensure that an ETS satellite network can be accommodated.
- o Identification of space available (including location) for proposed ETS equipment (a minimum of 60 square feet at the demarcation point). Environmental conditioning of the space (including under emergency conditions such as loss of off-site power) should be addressed.
- o Proposed satellite antenna location and any special requirements.
- o Identification of any special mounting requirements for proposed ETS phones (e.g. control room panels) other than the standard desk phone and any requirements for non-standard handset cord lengths.
- o Identification of a location at the plant (within 500' of the demarcation point) with an unobstructed view from southeast to

southwest for a satellite dish with a 20 - 60 degree angle of elevation. Determination of available power for utilization of a heating unit for the satellite dish at that location.

- o Identification/verification of licensee designated points of contact for future ETS upgrade efforts.

The NRC requests your cooperation in this information gathering effort to be performed at your location by personnel under contract to the NRC. Escorted access is requested in the plant/station and at the EOF. The visit shall have a duration of no more than one working day. The NRC's ETS Project Officer will contact your personnel to arrange a mutually acceptable date for the site visit. The names of the contractor personnel to perform the site visit shall be provided in advance by the ETS Project Officer.

If you have any questions or comments please call Ben Randall at 301-492-7721 or Tom Kellam at 301-492-8000.