

UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

June 4, 1981

The Honorable Bruce F. Vento Committee on Interior and Insular Affairs United States House of Representatives Washington, D. C. 20515

Dear Congressman Vento:

The Nuclear Regulatory Commission staff has prepared the enclosed response to your March 16, 1981 letter concerning the requirements of Section 303 of Public Law 96-295 for reporting the direct and indirect costs of issuing licenses and permits for, and inspections of, nuclear power plants.

On April 6, 1951, we wrote you on this matter and indicated that we would provide you with explicit answers to your questions by mid-May 1981. Standard definitions of direct cost, indirect cost and other terms germane to the calculation of licensing costs are included as Attachment 1 to our response. Each NRC office, board and panel performing activities related to the process of licensing reactors contributed information which is reflected in the cost figures you requested. The costs which we have provided in response to your questions are best estimates based upon the most recent budget and cost information available. They have not been subject to the analysis and review which was done in developing the existing 1978 license fee schedule. The Commission has tasked the Executive Director to reassess the costs of licensing and inspection by August 31, 1981 and provide the Commission with a proposed adjustment of the fee schedule using current rates to cover more completely the agency cost of licensing and inspection.

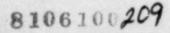
Subsequent discussions with your staff have indicated the desire for additional information on how the NRC develops fees charged for licensing purposes. This information is enclosed as Attachment 2.

We hope these answers are responsive to your needs. Please let us know if you have any further questions on this matter.

Sincerely

Joseph M. Hendrie

Enclosures: As Stated



CUESTICH 1.

During FY 1980, what has been the total cost to the NRC for reviewing reactor construction permit applications? What is the current estimated cost of an NRC construction permit review, including all costs incurred prior to construction permit issuance?

ANSWER

During FY 1980 the total cost to the NRC of reviewing reactor construction permit applications was approximately \$3.4 million. Of this amount, about \$1.5 million was direct cost and about \$1.9 million was indirect cost. Definitions for direct cost, indirect cost, and other terms germane to cost calculations are provided in Attachment 1.

According to current estimates, the cost of an NRC construction permit review for a single custom plant ranges from approximately \$2.4 million to \$3.4 million. Estimates for direct cost range from about \$1.3 million to \$1.7 million and estimates for indirect cost range from about \$1.2 million to \$1.7 million. During FY 1980, what has been the total cost to the NRC for reviewing reactor operating license applications? What is the current estimated cost of an NRC operating license review, including all costs incurred prior to operating license issuance?

ANSWER

During FY 1980 the total cost to the NRC for reviewing reactor operating license applications was approximately \$36.1 million. Of this amount, about \$20.4 million was direct cost and about \$15.7 million was indirect cost. Definitions for direct cost, indirect cost, and other terms germane to cost calculations are provided in Attachment 1.

According to current estimates, the cost of an NRC operating license review for a single custom plant ranges from approximately \$2.8 million to \$3.3 million. Estimates for direct cost range from about \$1.5 million to \$1.7 million and estimates for indirect cost range from about \$1.4 million to \$1.6 million. <u>CUESTION 3</u> During FY 1980, what was the total cost to the NRC for inspections of nuclear power plants under construction?

ANSWER

During FY 1980, the total cost to the NRC for inspections of Nuclear Power Plants under construction (i.e., those under CP review and OL review) was approximately \$14.8 million. Of this amount, about \$6.0 million was direct cost and about \$8.8 million was indirect cost. All of these costs (apportioned) are included in the answers to Questions 1 and 2. See Attachment 1 for definitions of terms. <u>CUESTION 4</u> During FY 1980, what was the total cost to the NRC for inspections of operating nuclear plants?

ANSWER

During FY 1980 the total costs to the NRC for inspections of operating nuclear plants was approximately \$28.4 million. Of this amount, about \$12.9 million was direct cost and about \$15.5 million was indirect cost. See Attachment 1 for definitions of terms.

<u>CUESTION 5</u> During FY 1980, what was the total cost to the NRC for inspections of vendors and contractors (including Nuclear Steam Supply System manufacturers, Architect & Engineering firms, Fuel Suppliers, Component Suppliers, and ASME Vendors)?

ANSWER

During FY 1980, the total cost to the NRC for inspections of vendors and contractors including Nuclear Steam Supply System manufacturers, Architect and Engineering firms, Fuel Suppliers, Component Suppliers and ASME Vendors was approximately \$2.2 million.

Of this amount, about \$0.9 million was direct cost and about \$1.3 million was indirect cost. See Attachment 1 for definitions of terms.

QUESTION 6: For each expenditure of NRC funds enumerated in Questions 1-5 above, how much revenue has been recovered by the Federal Government?

ANSWER:

During FY 1980, collections from the assessment of license fees are as follows:

- No collections were made by the Commission for the review of construction permit applications. There were costs incurred during the fiscal year; however, Commission regulations provide that construction permit fees are to be collected when NRC completes its review. Since there were no construction permits issued during FY 1980, no construction permit fees were collected.
- 2. \$1.6 million was collected in FY 1980 for the issuance of operating licenses. As with construction permits, fees for licenses are collected when NRC completes its review. The Commission's FY 1980 costs in this particular area represent not only costs for the licenses issued but also work in progress on licenses which are expected to be issued in subsequent years.
- 3. About \$900,000 was collected for inspections performed at nuclear power plant construction sites. This \$900,000 is included in the \$1.6 million shown in the operating license fees shown in 2 above. For fee purposes, we consider inspection costs incurred from the date the construction permit application is tendered to the date the permit is issued to be a part of the construction permit review costs. Likewise, inspection costs incurred from the date the construction permit is issued to the issuance of the operating license are a part of the operating license review costs. Thus, the \$900,000 represents the inspection portion of the three operating license fees collected in FY 1980.
- 4. \$5.8 million was collected for routine inspections of operating nuclear power plants. Part 10 CFR 170 of the Commission's regulations limit cost recovery to routine type inspections. Non-routine inspections such as investigations, incident/accident response or enforcement inspections are not subject to fees. The costs of the non-routine type inspections, however, have been included in the total FY 1980 costs shown for inspections of operating nuclear power plants.
 - 5. No charges were made by the Commission for quality assurance/ quality control inspections of vendors. Commission guidelines provide that fees will be imposed for NRC services rendered at the request of an organization where special benefits will be accrued from that NRC service. NRC does not consider vendors and architect engineers to have received any special benefits from an NRC inspection.

Direct Costs

The direct costs consist of the salaries and benefits of the professional staff, program (contractual) support and travel directly related to the activity.

Indirect Costs

The indirect costs consist of: (a) the salaries and benefits of the profession support staff for each activity, (b) organizational support (housekeeping) costs applicable to each NRC Office involved in the activity which were allocated to that Office's direct and indirect labor associated with the activity; (c) general and administrative costs, which were allocated to all direct and indirect labor associated with each activity.

Manpower

Professional Direct - is defined as effort by those professionals whose activities are directly related to the individual office mission. This would encompass such activities as reviewing license applications, inspecting reactors, writing standards, technically monitoring and directing research, conducting hearings, etc. This category is normally used to include all personnel at or below branch level except for branch chief and secretarial/clerical personnel.

Professional Support - Effort by those clerical and supervisory positions at the branch level designed to provide direct support-type services to . the professional. Professional support positions are relatively sensitive (variable) to fluctuations in the size of an office. The need for secretarial support, for example, is generally more directly influenced by the size of an office than the functions performed. Hence, this need should normally vary with the number of professionals to be supported. Other positions which are primarily influenced by the number of professionals will include branch chiefs.

Organizational Support - Includes those positions that provide general support to professional direct personnel and to professional support personnel. Positions in this category perform work that is primarily dependent upon the scope of the functions assigned rather than the number of professionals assigned. Organizational support positions are ormally considered to be all positions at the Assistant Director (AD) level and above. In addition, all positions on the Program Support staff are considered as organizational support positions.

Activities

<u>CP Review</u> - For reporting purposes, a CP review is defined as the review conducted from the date the application is tendered with the NRC to the date of issuance of the construction permit.

OL Review - For reporting purposes, an OL review is defined as the review conducted by the NRC from the date of CP issuance to the date of OL issuance authorizing 100% power operation.

Development of NRC License Fees

The schedule of fees in 10 CFR 170 of the Commission's regulations which became effective on March 23, 1978 are based on 31 U.S.C. 483a, which was construed in Supreme Court decisions of March 4, 1974, and decisions of the U.S. Court of Appeals for the District of Columbia on December 16, 1976. As a result of these court decisions, the Commission developed internal guidelines for the setting of license fees. Using these guidelines and estimates in the Commission's FY 1977 budget, the existing fee schedule was developed. Subsequently, this schedule was challenged in the U.S. Court of Appeals for the Fifth Circuit which issued an opinion in August 1979 upholding in all respects the NRC's existing 1978 schedule and guidelines for fees.

In summary, Commission guidelines for fee assessment provide that fees may be assessed to persons who are identifiable recipients of special benefits conferred by specifically identified activities of the NRC. Such special benefits include all services necessary for the issuance of a required permit, license, approval or amendment and all services necessary to assist a recipient in complying with statutory obligations or obligations under the Commission's regulations. The fees established by regulation include the direct and indirect costs of providing the service. The Commission has stipulated that where the identification of the ultimate beneficiary of the NRC activity is obscure, the cost of the activity should not be included in the cost basis for fees.

Following Commission guidelines, the 1978 schedule of fees was developed as follows:

- The activities performed and the services provided by all NRC offices were reviewed and analyzed. Only those services which provided special benefits to identifiable recipients were included for fee computation.
- 2. Specific offices were identified as those directly involved in the review of applications/requests, and issuing licenses, approvals, or performing inspections: Office of Nuclear Reactor Regulation (NRR), Office of Inspection and Enforcement (IE), Office of Nuclear Material Safety and Safeguards (NMSS), ACRS, ASLBP, and ASLAP. Since professional employees in each of these offices are involved in the processing of applications and performing inspections, an average cost/man-year to maintain a professional employee (professional rate) was developed for each office.
- 3. In addition to the offices described in item 2 above which are directly involved in the licensing or inspection process, other offices such as Controller, Executive Legal Director, etc., which provide indirect support to the licensing and inspection process and which were included, after a detailed analysis of their activities.

- 4. Program support services (contractual line items) were individually reviewed to determine whether they supported the review of applications, permits, licenses, approvals or inspections. Those contractual services which were found to support the review, licensing, inspection or hearing process were considered to be providing a special benefit and were included in the fee computation.
- 5. Each operating office responsible for the processing of applications and conducting inspections and hearings, determined the average professional manpower (expressed in man-years or man-hours) required to process each category or type of application, license, amendment, or inspection.
- 6. The proposed fee for a specific category of license application was computed by multiplying the average professional manpower required to perform the service times the professional man-year or man-hour rate, and adding a proportionate share of the costs of contractual services.

Once the proposed fees were computed, they were published in the Federal Register for public comment. All comments were then carefully considered and the final rule was published in the Federal Register.

The fee schedule pr. . . that fees in certain instances; e.g., those assessed for power reactor construction permits and operating licenses are to be based on the actual costs (manpower and contractual) expended to complete the review, not to exceed certain upper limits established by the Commission. For example, as shown in the attached schedule the fee established by regulation for the custom review of an operating license for a single unit at a site is slightly more than \$1 million. When the Commission's review costs exceed \$1 million, no additional fees are assessed. If the review costs are less than \$1 million, then the Commission would refund the difference between the actual cost of the review and the \$1 million which was paid by the licensee upon issuance of the license. Fees were also established for other types of facility reviews; e.g., review of duplicate plants, replicate plants, etc.

License fees have not been readjusted since 1978, because the existing fee schedule was challenged unsuccessfully in court by several utilities. In the meantime, the NRC has been attempting to collect costs incurred in the review of facility applications subsequently withdrawn by utilities. These applicants have all refused to pay where the NRC has billed. A notice explaining the Commission's position was published in the Federal Register. It is expected that this matter will be litigated.

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PART 170 . FEES FOR FACILITIES AND MATERIALS LICENSES-

INT A livense authorizing the use of source material as shielding only in e devices and unitainers, provided however that all other licensed hapidducumaterial source material, or S special nuclear material in the device or container will be subject to the fees prescribed in \$ 170 31

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(P) A license for possession and use of byproduct material, source material. or special nuclear material applied for by, or issued to. In Mency of a State or any political subdivision inereof, except for licenses which authorize distribution of byprody it maternal, source maternal, or special nucreat material, or products containing typroduct material, source material. or special nuclear material, or licenses suchorizing services to any person other than an agency or political subdivision of the State.

(b) (1) The Commission may, upon application by an interested person, or upon its own initiative. grant such esemptions from the requirements of this Belt as it determines are authorized by is and are otherwise in the public interesi (2) Applications for exemption unuer this paragraph may include acin ities such as but not limited to, the use of licensed materials for educational or suncommercial public displays or scien-= Dais collections (3) [Deleted 43 FR 7210.]

>1:70.12 Payment of fere.

Application Fees. Each applica. tion for which & fee is prescribed shall be accompanied by a remittance in the full amount of the fee. No application will be accepted for filing or processed pror to payment of the full ambunt t xtified. Applications for which no T millance is received may be returned the applicant All application fees will be charged irrespective of the Commission's disposition of the application or a withdrawal of the applicalion

(b) License fees. Fees for construcuon permits, operating licenses, manufacturing licenses, and materials licenses, are pavable upon notification by the Commission when the review of The project is completed.

"C: Amendment fres The sppropriale amendment fer shall accompany the application for amendment when tiled with the Commission. Where sp pirable. the applicant shall provide a proposed determination of the amendment class and state the basis therefor a part of the amendment request and tall remit the fee corresponding to the determination with the applica-1.27 for amenament. The Commission -tamine the amendiment fee and anere applicable, refund any 6 stattarges or till the applicant for ta acontional amenement fee

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newal application when filed with the Commission.

(e) Approval Fees Fees for spens fuel cask and shipping container approvals, standardized spent fuel facility design approvals, and construction soprovals are payable upon notificareview of the project is completed. Fees for facility reference standard. ized design approvals will be paid in five (5) installments based on payment of 20 percent of the approval fee (see foothote 3 (170.21) as each of the first five (5) units of the sporoved design are referenced in an application(s) filed by & utility or utilities.

(1) Special Project Feat Fees for special projects are payable upon notification by the Commission when the review of the project is completed.

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(E) Inspection Fees Inspection fees re payable upon notification by the Commission.

(h) Method of Payment Fee pay menus shall be by check. draft or money order made payable to the t Nuclear Regulatory Commission.

110.21 Schedule of fees for production and utilization facilities. review of reference standardized designs, and special projecta.

(1) Applicants for construction permils, manufacturing licenses, operating licenses, and approvals of refer ence standardized facilities designs. shall pay the fees set forth in the Labie below.

(b) Applicants for special project re-HEVE ANALI DAY ICES IS SEPARALELY determined by the Commission.

SCHEDULE OF FALLETY FEES

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PART 170 . FEES FOR FACILITIES AND MATERIALS LICENSES-

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SCHEDULL OF FACILITY FELS

Facility categories	Types of fees	Fee .
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	Construction permit anteres descentes and	184.400
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> 1170.22 Schedule of fres for facility license amendmenta

SCHEDTLE OF AMENDMENT: PER FOR REACTOR PACELITY PERMITS, LICENSES, AND OTHER APPROVALS REPETRES IT THE LICENSE OR COMMISSION RECTLATIONS

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CLASS I: Amendments that are a duplicate of an amenament for a second essentially ider tool unit at the same site where both proposed amendments are received, processed, and issued at the same time	1400		
Infiliance			
Provide that through a complete more or required as one environmental safety, or other source or several changes of the case III type uncorporated into the proposed apendment, or spoule a similicant has and cunsideration, or require an extensive environ- mental impact Liperital or result from dismantling		1.000	
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CLASS VI AMERICATION AND AND AND AND AND AND AND AND AND AN	33.000	12,000	
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At the time the application is filed the licensee of applicant shall provide a proposed determination of unendment class and state the basis therefor as part of the spacedment of modification request and shall class determination and inform the "ortrare or applicant if reclassification is request. Ascissatification that chantes the risks of abendment will shall be reclassified on a request. Ascissatification that chantes the risks of abendment will shall be refund of over the result to the licenses or applicate or chantes the risks of abendment will shall be refund of over the result to the licenses or applicate or "Locates amendments or applicant for additional fees." "Locates amendment or sublime to solution of a sublime the solution of the solution of the licenses or applicate to and amendments resulting in an initial increase in power to 100 percents of the initial sector power level and not subject to them free except as provided in footoes 1 to § 170.21. Chan L 11 of 121 and the amendments when result from a written Commission request for the application may be exempt from fees when the amend-ment is to sumptify or clarify increase or written application."

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