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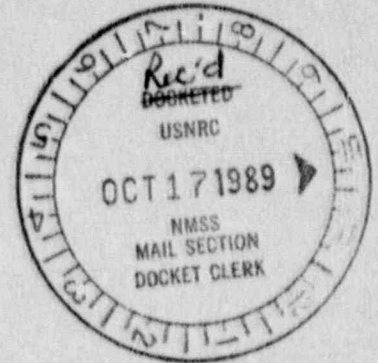
# FOSTER WHEELER ENERGY CORPORATION

PERRYVILLE CORPORATE PARK • CLINTON NEW JERSEY 08809-4000 • PHONE 201 730-4000

ADDRESS REPLY TO:

Foster Wheeler Energy Corporation  
Route 29, Dansville, N.Y. 14437-9803  
Telephone 716-335-3131  
Telex No. 62218810 Continental 705417 International

October 2, 1989



Mr. Charles E. MacDonald  
United States Nuclear Regulatory Commission  
Chief Transportation Branch  
Division of Safeguards and Transportation, NMSS  
Washington, DC 20555

Subject: FOSTER WHEELER CONSTRUCTORS, INC. QUALITY ASSURANCE PROGRAM LICENSE #29-28016-01, Docket No. 030-29933

Dear Mr. MacDonald:

We are requesting a Quality Assurance Program License in order to comply with Title 10 CFR, Subpart C, Part 71, in satisfying the provisions of subpart H of 10 CFR, Part 71.

Enclosed for your review are the following documents (two copies of each):

1. FWCI Material License No. 29-28016-01, Docket No. 030-29933
2. Section VI of FWCI Radiation Safety Manual, Procedures:
 

50 - Scope & Implementation of Section VI	60 - Receiving Procedures
51 - Shipping Procedures	61 - Receiving Procedures
52 - Shipping Procedures	62 - Receiving Procedures
53 - Shipping Procedures	63 - Receiving Procedures
54 - Shipping Procedures	

Enclosed please find Check No. 001231 in the amount of \$150.00 to cover the required application/license fee.

Please advise if you have any questions concerning the addressed information.

Log *Oct-3-90*

Remitter *M01231*

Check No. *9150*

Amount *103*

Fee Category *App*

SJAs (CEM9-27) of Fee *10/18/89*

Enclosure (check) *10/18/89*

Date Completed *10/18/89*

Very truly yours,  
FOSTER WHEELER ENERGY CORPORATION

*Stewart J. Akrin*  
S. J. Akrin  
Corporate Radiation Safety Officer

CC: N. D. Freeman  
T. P. Staed  
M. Stanko

8910190106 891002  
PDR ADCK 071 *00684*  
FDC

CABLE ADDRESS: REWOP PERRYVILLE NEW JERSEY

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**MATERIALS LICENSE**

Amendment No. 01

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer; byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<p style="text-align: center;">Licensee</p> <p>1. Foster Wheeler Constructors, Inc.</p> <p>2. Perryville Corporate Park Clinton, New Jersey 08809-4000</p>	<p>In accordance with letter dated September 24, 1987, 3. License number 29-28016-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date August 31, 1992</p> <hr/> <p>5. Docket or Reference No. 030-29933</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Iridium 192</p> <p>B. Cobalt 60</p> <p>C. Ytterbium 169</p> <p>D. Cesium 137</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed sources specified in Condition 10.A.</p> <p>B. Sealed sources specified in Condition 10.B.</p> <p>C. Sealed source (Amersham/Technical Operations Model 705)</p> <p>D. Sealed source</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. As specified in Condition 10.A.</p> <p>B. As specified in Condition 10.B.</p> <p>C. As specified in Condition 10.C.</p> <p>D. 8 microcuries</p>
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9. Authorized use

A. through C. For use in industrial radiography as specified in Condition 10. and replacement of sources as specified in Condition 11.

D. For use in a Victoreen 541-204 dosimeter calibrator.

**CONDITIONS**

10. A. Sealed iridium-192 sources and exposure devices authorized for use are as follows:

<u>Manufacturer &amp; Model No. of Exposure devices</u>	<u>Manufacturer &amp; Model No. of Source Assemblies</u>	<u>Maximum Activity per Source (curies)</u>
Amersham/Technical Operations Model 660	Amersham/Technical Operations Model A424-9	100
	Gamma Industries Model T3T	100
	Gulf Nuclear Model RT15	100
	Source Production and Equipment Company Model T5	100

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**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License number

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Amendment No. 01

(Continued)

## CONDITIONS

10. B. Sealed cobalt-60 sources and exposure devices authorized for use are as follows:

<u>Manufacturer &amp; Model No. of Exposure devices</u>	<u>Manufacturer &amp; Model No. of Source Assemblies</u>	<u>Maximum Activity per Source (curies)</u>
Amersham/Technical Operations Model 680	Amersham/Technical Operations Model A424-14	100
Amersham/Technical Operations Model 684 or 735	Amersham/Technical Operations Models A424-15	10
Amersham/Technical Operations Model 741E	Amersham/Technical Operations Model A424-18	30

10. C. Sealed ytterbium-169 sources and exposure devices authorized for use are as follows:

<u>Manufacturer &amp; Model No. of Exposure devices</u>	<u>Manufacturer &amp; Model No. of Source Assemblies</u>	<u>Maximum Activity per Source (curies)</u>
Amersham/Technical Operations Model 660	Amersham/Technical Operations Model 712	5

11. A. The following source changers may be used with the listed iridium-192 sources:

<u>Manufacturer &amp; Model No. of Source changers</u>	<u>Manufacturer &amp; Model No. of Source Assemblies</u>
Amersham/Technical Operations Models 650 or 414	Amersham/Technical Operations Models A424-1 and A424-9

11. B. The following source changers may be used with the listed cobalt-60 sources:

<u>Manufacturer &amp; Model No. of Source changers</u>	<u>Manufacturer &amp; Model No. of Source Assemblies</u>
Amersham/Technical Operations Model 416	Amersham/Technical Operations Model A424-15
Amersham/Technical Operations Model 771	Amersham/Technical Operations Model A424-14 or A424-18

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

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**CONDITIONS**

11. C. The following source changers may be used with the listed ytterbium-169 sources:
 

<p><u>Manufacturer &amp; Model No. of Source changers</u></p> <p>Amersham/Technical Operations Models 414, 650</p>	<p><u>Manufacturer &amp; Model No. of Source Assemblies</u></p> <p>Amersham/Technical Operations Model 712</p>
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12. Licensed material shall be used only at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
  
13. Licensed material shall be used by, or under the supervision and in the physical presence of, Stewart J. Akrin, Jr. or individuals who have been trained as specified in application dated March 31, 1987 and letters dated May 26, 1987, and July 7, 1987. The licensee shall maintain records of individuals designated as users.
  
14. A. Notwithstanding the periodic leak test required by Section 34.25(b) of 10 CFR Part 34, such requirement does not apply to radiography sources that are stored and not being used. The sources excepted from this test shall be tested for leakage before use or transfer to another person.
  
- B. Sealed sources authorized for a use other than radiography shall be tested as radiography sources in accordance with Section 34.25 of 10 CFR Part 34.
  
15. The licensee is authorized to receive, possess, and use sealed sources of iridium-192 or cobalt-60 where the radioactivity exceeds the maximum amount of radioactivity specified in this license provided:
  - A. Such possession does not exceed the quantity per source specified in Item 8 by more than 20% for iridium-192 or 10% for cobalt-60;
  - B. Records of the licensee show that no more than the maximum amount of radioactivity per source specified in this license was ordered from the supplier or transferor of the byproduct material; and
  - C. The levels of radiation for radiographic exposure devices and storage containers do not exceed those specified in Section 34.21 of 10 CFR Part 34.
  
16. Pursuant to 10 CFR Part 40, "Domestic Licensing of Source Material," the licensee is authorized to possess, use, transfer, and import up to 999 kilograms of uranium contained as shielding material in the radiography exposure devices and source changers authorized by this license.
  
17. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material".



MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number	29-28016-01
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CONDITIONS

18. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. Application dated March 31, 1987
- B. Letter dated May 26, 1987
- C. Letter dated July 7, 1987
- D. Letter dated September 24, 1987

For the U.S. Nuclear Regulatory Commission

Date 11 NOV 1987

By *John D. ...*  
 Nuclear Materials Safety and  
 Safeguards Branch, Region I  
 King of Prussia, Pennsylvania 19406