

United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE

EXPERIMENTAL
(Nature of Service)

XD FX MO
(Class of Station)

WE2XHK
(Call Sign)

0330-EX-PL-2007
(File Number)

NAME Progress Energy

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(i) of the Commission's Rules

Station Locations

- (1) New Hill (WAKE), NC - NL 35-38-18; WL 78-56-24; MOBILE: Shearon Harris Nuclear Plant, New Hill, NC, within 2 km, centered around NL 35-38-18; WL 78-56-24
- (2) Southport (BRUNSWICK), NC - NL 33-57-13; WL 78-01-39; MOBILE: Brunswick Nuclear Power Plant, Southport, NC, within 2 km, centered around NL 33-57-13; WL 78-01-39
- (3) Hartsville (DARLINGTON), SC - NL 34-26-47; WL 80-08-43; MOBILE: Robinson Nuclear Plant, Hartsville, SC, within 2 km, centered around NL 34-26-47; WL 80-08-43
- (4) Crystal River (CITRUS), FL - NL 28-57-40; WL 82-37-43; MOBILE: Crystal River Nuclear Power Plant, Crystal River, FL, within 2 km, centered around NL 28-57-40; WL 82-37-43

Frequency Information

New Hill (WAKE), NC - NL 35-38-18; WL 78-56-24; MOBILE: Shearon Harris Nuclear Plant, New Hill, NC, within 2 km, center

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150-150.8 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E	250 mW (ERP)	

This authorization effective October 10, 2007 and
will expire 3:00 A.M. EST February 18, 2009

FEDERAL
COMMUNICATIONS
COMMISSION



Frequency Information

New Hill (WAKE), NC - NL 35-38-18; WL 78-56-24; MOBILE: Shearon Harris Nuclear Plant, New Hill, NC, within 2 km, center

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150-150.8 MHz	MO	84K0F3E	250 mW (ERP)	
150.8-157.0375 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
157.0075-157.2175 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
157.1875-162.0125 MHz	MO	190KG3E 20K0F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E 20K4F3E	250 mW (ERP)	
162.0125-173.2 MHz	MO	190KG3E	250 mW (ERP)	

Frequency Information

New Hill (WAKE), NC - NL 35-38-18; WL 78-56-24; MOBILE: Shearon Harris Nuclear Plant, New Hill, NC, within 2 km, center

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
162.0125-173.2 MHz	MO	20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
173.2-173.4 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
173.4-174 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3D 84K0F3E	250 mW (ERP)	
174-216 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E	250 mW (ERP)	

Frequency Information

New Hill (WAKE), NC - NL 35-38-18; WL 78-56-24; MOBILE: Shearon Harris Nuclear Plant, New Hill, NC, within 2 km, center

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
174-216 MHz	MO	80K0F3E 84K0F3E	250 mW (ERP)	
470-608 MHz	MO	160KF3E 180KF3E 190KF1E 190KG3E 200KF3E 74K0F3E 90K0F3E	250 mW (ERP)	
614-806 MHz	MO	190KG3E 200KF3E 91K0F3E	250 mW (ERP)	

Southport (BRUNSWICK), NC - NL 33-57-13; WL 78-01-39; MOBILE: Brunswick Nuclear Power Plant, Southport, NC, within

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150-150.8 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
150.8-157.0375 MHz	MO	190KG3E	250 mW (ERP)	

Frequency Information

Southport (BRUNSWICK), NC - NL 33-57-13; WL 78-01-39; MOBILE: Brunswick Nuclear Power Plant, Southport, NC, within

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150.8-157.0375 MHz	MO	20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
157.0075-157.2175 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
157.1875-162.0125 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
162.0125-173.2 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E	250 mW (ERP)	

Frequency Information

Southport (BRUNSWICK), NC - NL 33-57-13; WL 78-01-39; MOBILE: Brunswick Nuclear Power Plant, Southport, NC, within

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
162.0125-173.2 MHz	MO	80K0F3E 84K0F3E	250 mW (ERP)	
173.2-173.4 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
173.4-174 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
174-216 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	

Frequency Information

Southport (BRUNSWICK), NC - NL 33-57-13; WL 78-01-39; MOBILE: Brunswick Nuclear Power Plant, Southport, NC, within

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
470-608 MHz	MO	160KF3E 180KF3E 190KF1E 190KG3E 200KF3E 74K0F3E 90K0F3E	250 mW (ERP)	
614-806 MHz	MO	190KG3E 200KF3E 91K0F3E	250 mW (ERP)	

Hartsville (DARLINGTON), SC - NL 34-26-47; WL 80-08-43; MOBILE: Robinson Nuclear Plant, Hartsville, SC, within 2 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150-150.8 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
150.8-157.0375 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E	250 mW (ERP)	

Frequency Information

Hartsville (DARLINGTON), SC - NL 34-26-47; WL 80-08-43; MOBILE: Robinson Nuclear Plant, Hartsville, SC, within 2 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150.8-157.0375 MHz	MO	70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
157.0075-157.2175 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
157.1875-162.0125 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
162.0125-173.2 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	

Frequency Information

Hartsville (DARLINGTON), SC - NL 34-26-47; WL 80-08-43; MOBILE: Robinson Nuclear Plant, Hartsville, SC, within 2 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
173.2-173.4 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
173.4-174 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
174-216 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
470-608 MHz	MO	190KG3E 160KF3E 180KF3E 190KF1E 200KF3E	250 mW (ERP)	

Frequency Information

Hartsville (DARLINGTON), SC - NL 34-26-47; WL 80-08-43; MOBILE: Robinson Nuclear Plant, Hartsville, SC, within 2 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
470-608 MHz	MO	74K0F3E 90K0F3E	250 mW (ERP)	
614-806 MHz	MO	190KG3E 200KF3E 91K0F3E	250 mW (ERP)	

Crystal River (CITRUS), FL - NL 28-57-40; WL 82-37-43; MOBILE: Crystal River Nuclear Power Plant, Crystal River, FL, with

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150-150.8 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
150.8-157.0375 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	

Frequency Information

Crystal River (CITRUS), FL - NL 28-57-40; WL 82-37-43; MOBILE: Crystal River Nuclear Power Plant, Crystal River, FL, with

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
157.0075-157.2175 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
157.1875-162.0125 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
162.0125-173.2 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
173.2-173.4 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E	250 mW (ERP)	

Frequency Information

Crystal River (CITRUS), FL - NL 28-57-40; WL 82-37-43; MOBILE: Crystal River Nuclear Power Plant, Crystal River, FL, with

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
173.2-173.4 MHz	MO	70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
173.4-174 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
174-216 MHz	MO	190KG3E 20K0F3E 20K4F3E 30K0F3E 44K0F3E 70K0F3E 80K0F3E 84K0F3E	250 mW (ERP)	
470-608 MHz	MO	160KF3E 180KF3E 190KF1E 190KG3E 200KF3E 74K0F3D 90K0F3E	250 mW (ERP)	

Frequency Information

Crystal River (CITRUS), FL - NL 28-57-40; WL 82-37-43; MOBILE: Crystal River Nuclear Power Plant, Crystal River, FL, with

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
614-806 MHz	MO	190KG3E 200KF3E 91K0F3E	250 mW (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9247 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir@sbe.org; information, www.sbe.org.
- (3) Radios are not to go beyond the nuclear power plant property.