

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

EXPERIMENTAL  
(Nature of Service)

WE2XSG  
(Call Sign)

XC MO  
(Class of Station)

0019-EX-AL-2011  
(File Number)

NAME Huntington Ingalls Industries, Inc.

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(b) of the Commission's Rules

Station Locations

- (1) MOBILE: On NSC within 240 km of Northrop Grumman Pascagoula Operations, Pascagoula, Mississippi, within 240 km, centered around NL 30-20-44; WL 88-34-40

Frequency Information

MOBILE: On NSC within 240 km of Northrop Grumman Pascagoula Operations, Pascagoula, Mississippi, within 240 km, centered around NL 30-20-44; WL 88-34-40

| Frequency  | Station Class | Emission Designator                                                                  | Authorized Power | Frequency Tolerance (+/-) |
|------------|---------------|--------------------------------------------------------------------------------------|------------------|---------------------------|
| 4.15 MHz   | MO            | 2K70J3E                                                                              | 660.693 W (ERP)  | 0.0001 %                  |
| 4.7314 MHz | MO            | 3K10H3E<br>2K70B8E<br>300HA1A<br>3K10J2D<br>2K40F3C<br>2K80J3E<br>300HF1B<br>2K80R3E | 660.693 W (ERP)  | 7.0E-8 %                  |

This authorization effective February 15, 2011 and  
will expire 3:00 A.M. EST July 01, 2013

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: On NSC within 240 km of Northrop Grumman Pascagoula Operations, Pascagoula, Mississippi, within 240 km, centered around NL 30-20-44; WL 88-34-40

| Frequency  | Station Class | Emission Designator                                                                  | Authorized Power | Frequency Tolerance (+/-) |
|------------|---------------|--------------------------------------------------------------------------------------|------------------|---------------------------|
| 6.2 MHz    | MO            | 3K10H3E<br>2K70B8E<br>300HA1A<br>3K10J2D<br>2K40F3C<br>2K80J3E<br>300HF1B<br>2K80R3E | 660.693 W (ERP)  | 7.0E-8 %                  |
| 6.7104 MHz | MO            | 3K10H3E<br>2K70B8E<br>300HA1A<br>3K10J2D<br>2K40F3C<br>2K80J3E<br>300HF1B<br>2K80R3E | 660.693 W (ERP)  | 7.0E-8 %                  |
| 8.1964 MHz | MO            | 3K10H3E<br>2K70B8E<br>300HA1A<br>3K10J2D<br>2K40F3C<br>2K80J3E<br>300HF1B<br>2K80R3E | 660.693 W (ERP)  | 7.0E-8 %                  |
| 8.2984 MHz | MO            | 3K10H3E<br>2K70B8E<br>300HA1A<br>3K10J2D<br>2K40F3C                                  | 660.693 W (ERP)  | 7.0E-8 %                  |

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|-------------|---------------|--------------------------------------------------------------------------------------|------------------|---------------------------|
| 8.2984 MHz  | MO            | 2K80J3E<br>300HF1B<br>2K80R3E                                                        | 660.693 W (ERP)  | 7.0E-8 %                  |
| 9.0374 MHz  | MO            | 3K10H3E<br>2K70B8E<br>300HA1A<br>3K10J2D<br>2K40F3C<br>2K80J3E<br>300HF1B<br>2K80R3E | 660.693 W (ERP)  | 7.0E-8 %                  |
| 11.1974 MHz | MO            | 3K10H3E<br>2K70B8E<br>300HA1A<br>3K10J2D<br>2K40F3C<br>2K80J3E<br>300HF1B<br>2K80R3E | 660.693 W (ERP)  | 7.0E-8 %                  |
| 12.2434 MHz | MO            | 3K10H3E<br>2K70B8E<br>300HA1A<br>3K10J2D<br>2K40F3C<br>2K80J3E<br>300HF1B<br>2K80R3E | 660.693 W (ERP)  | 7.0E-8 %                  |

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| Frequency   | Station Class | Emission Designator                                                                  | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|--------------------------------------------------------------------------------------|------------------|---------------------------|
| 12.3544 MHz | MO            | 3K10H3E<br>2K70B8E<br>300HA1A<br>3K10J2D<br>2K40F3C<br>2K80J3E<br>300HF1B<br>2K80R3E | 660.693 W (ERP)  | 7.0E-8 %                  |
| 16.3764 MHz | MO            | 3K10H3E<br>2K70B8E<br>300HA1A<br>3K10J2D<br>2K40F3C<br>2K80J3E<br>300HF1B<br>2K80R3E | 660.693 W (ERP)  | 7.0E-8 %                  |
| 16.5294 MHz | MO            | 3K10H3E<br>2K70B8E<br>300HA1A<br>3K10J2D<br>2K40F3C<br>2K80J3E<br>300HF1B<br>2K80R3E | 660.693 W (ERP)  | 7.0E-8 %                  |
| 18.8164 MHz | MO            | 3K10H3E<br>2K70B8E<br>300HA1A<br>3K10J2D<br>2K40F3C                                  | 660.693 W (ERP)  | 7.0E-8 %                  |

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| Frequency   | Station Class | Emission Designator                                                                  | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|--------------------------------------------------------------------------------------|------------------|---------------------------|
| 18.8164 MHz | MO            | 2K80J3E<br>300HF1B<br>2K80R3E                                                        | 660.693 W (ERP)  | 7.0E-8 %                  |
| 22.0074 MHz | MO            | 3K10H3E<br>2K70B8E<br>300HA1A<br>3K10J2D<br>2K40F3C<br>2K80J3E<br>300HF1B<br>2K80R3E | 660.693 W (ERP)  | 7.0E-8 %                  |
| 22.1604 MHz | MO            | 3K10H3E<br>2K70B8E<br>300HA1A<br>3K10J2D<br>2K40F3C<br>2K80J3E<br>300HF1B<br>2K80R3E | 660.693 W (ERP)  | 7.0E-8 %                  |
| 34.01 MHz   | MO            | 16K0F3E                                                                              | 53.475 W (ERP)   | 0.0002 %                  |
| 41.21 MHz   | MO            | 16K0F3E                                                                              | 53.475 W (ERP)   | 0.0002 %                  |
| 41.73 MHz   | MO            | 16K0F3E                                                                              | 53.475 W (ERP)   | 0.0002 %                  |

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|--------------|---------------|-------------------------------|------------------|---------------------------|
| 41.75 MHz    | MO            | 16K0F3E                       | 53.475 W (ERP)   | 0.0002 %                  |
| 41.83 MHz    | MO            | 16K0F3E                       | 53.475 W (ERP)   | 0.0002 %                  |
| 139.975 MHz  | MO            | 11K0F3E<br>8K10F1E            | 56.101 W (ERP)   | 0.00015 %                 |
| 141.6125 MHz | MO            | 11K0F3E<br>8K10F1E            | 56.101 W (ERP)   | 0.0002 %                  |
| 156 MHz      | MO            | 16K0G3E<br>16K0F1D            | 56.101 W (ERP)   | 0.0005 %                  |
| 156.95 MHz   | MO            | 16K0F3E<br>16K0G3E<br>16K0F1D | 56.101 W (ERP)   | 0.0005 %                  |
| 156.95 MHz   | MO            | 16K0F3E<br>16K0G3E            | 0.723 W (ERP)    | 0.00003 %                 |
| 161.975 MHz  | MO            | 20K0F1D                       | 20.3 W (ERP)     | 0.0003 %                  |
| 162.025 MHz  | MO            | 20K0F1D                       | 20.3 W (ERP)     | 0.0003 %                  |

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|--------------|---------------|------------------------------------------|------------------|---------------------------|
| 275.1 MHz    | MO            | 25K0A1E                                  | 44.881 W (ERP)   | 0.00025 %                 |
| 389.3875 MHz | MO            | 10K0F2D<br>11K0F3E<br>8K50F1E<br>8K50F1D | 0.02 W (ERP)     | 0.0001 %                  |
| 389.4625 MHz | MO            | 11K0F3E<br>8K50F1E<br>10K0F2E<br>8K50F1D | 0.02 W (ERP)     | 0.0001 %                  |
| 389.5125 MHz | MO            | 11K0F3E<br>10K0F2D<br>8K00F1D<br>8K00F1E | 3.155 W (ERP)    | 0.0001 %                  |
| 389.7375 MHz | MO            | 8K50F1D<br>10K0F2D<br>11K0F3E<br>8K50F1E | 0.02 W (ERP)     | 0.0001 %                  |
| 389.8375 MHz | MO            | 8K50F1D<br>10K0F2D<br>11K0F3E<br>8K50F1E | 0.02 W (ERP)     | 0.0001 %                  |

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|--------------|---------------|------------------------------------------|------------------|---------------------------|
| 389.9125 MHz | MO            | 8K50F1D<br>10K0F2D<br>11K0F3E<br>8K50F1E | 0.02 W (ERP)     | 0.0001 %                  |
| 395.1 MHz    | MO            | 8K50F1D<br>10K0F2D<br>11K0F3E<br>8K50F1E | 0.02 W (ERP)     | 0.0001 %                  |
| 395.3 MHz    | MO            | 8K50F1D<br>10K0F2D<br>11K0F3E<br>8K50F1E | 0.02 W (ERP)     | 0.0001 %                  |
| 395.5 MHz    | MO            | 8K50F1D<br>10K0F2D<br>11K0F3E<br>8K50F1E | 0.02 W (ERP)     | 0.0001 %                  |
| 395.675 MHz  | MO            | 8K50F1D<br>10K0F2D<br>11K0F3E<br>8K50F1E | 0.02 W (ERP)     | 0.0001 %                  |
| 395.875 MHz  | MO            | 8K50F1D<br>10K0F2D<br>11K0F3E            | 0.02 W (ERP)     | 0.0001 %                  |

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|--------------|---------------|------------------------------------------|------------------|---------------------------|
| 395.875 MHz  | MO            | 8K50F1E                                  | 0.02 W (ERP)     | 0.0001 %                  |
| 397.125 MHz  | MO            | 8K50F1D<br>10K0F2D<br>11K0F3E<br>8K50F1E | 0.02 W (ERP)     | 0.0001 %                  |
| 406.625 MHz  | MO            | 11K0F3E                                  | 44.881 W (ERP)   | 0.00025 %                 |
| 406.825 MHz  | MO            | 11K0F3E<br>8K10F1E                       | 44.881 W (ERP)   | 0.00025 %                 |
| 407.225 MHz  | MO            | 11K0F3E<br>8K10F1E                       | 44.881 W (ERP)   | 0.0002 %                  |
| 407.625 MHz  | MO            | 11K0F3E<br>8K10F1E                       | 44.881 W (ERP)   | 0.0002 %                  |
| 410.125 MHz  | MO            | 11K0F3E<br>8K10F1E                       | 44.881 W (ERP)   | 0.0002 %                  |
| 410.2875 MHz | MO            | 11K0F3E<br>8K10F1E                       | 44.881 W (ERP)   | 0.0002 %                  |

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|--------------|---------------|---------------------|------------------|---------------------------|
| 410.375 MHz  | MO            | 11K0F3E<br>8K10F1E  | 44.881 W (ERP)   | 0.0002 %                  |
| 411.8125 MHz | MO            | 8K10F1E<br>11K0F3E  | 44.881 W (ERP)   | 0.0002 %                  |
| 415.625 MHz  | MO            | 11K0F3E<br>8K10F1E  | 44.881 W (ERP)   | 0.0002 %                  |
| 415.825 MHz  | MO            | 11K0F3E<br>8K10F1E  | 44.881 W (ERP)   | 0.0002 %                  |
| 416.225 MHz  | MO            | 11K0F3E<br>8K10F1E  | 44.881 W (ERP)   | 0.0002 %                  |
| 416.625 MHz  | MO            | 8K10F1E<br>11K0F3E  | 44.881 W (ERP)   | 0.0002 %                  |
| 3050 MHz     | MO            | 67M5P0N             | 3022.27 W (ERP)  | 0.0098 %                  |
| 9410 MHz     | MO            | 72M5P0N             | 11228.8 W (ERP)  | 0.003 %                   |
| 9.775 GHz    | MO            | N0N                 | 100.475 W (ERP)  | 0.0002 %                  |

**Special Conditions:**

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) NTIA denies the following frequencies since they will cause interference to Federal operations or pose interference to flight safety: 140.475 MHz, 1030 MHz and 1090 MHz.
- (3) One of the stop buzzer point-of-contacts, Bruce Cook cell (228) 366-6153 or Joe James cell (228) 366-6226, must be present during all testing.
- (4) Use of the frequency 16529.4 kHz is only allowed after coordination with the Navy Pascagoula Ship Yard, Chuck Bardsley, (228) 769-4700.
- (5) Use of wideband emissions (16K0F3E) in the bands 138-144 MHz, 162-174 MHz or 406-420 MHz do not meet NTIA allowed emissions and may have been denied when GMF authorization was requested.
- (6) Operation is subject to prior coordination with the United States Navy, Pascagoula Ship Yard, Mr. Chuck Bardsley at (228) 769-4700.
- (7) Subject to coordination with the Gulf Area Frequency Coordinator located at Eglin AFB, Florida, prior to use within the area bounded by 24 N 33 30'N and 83 W 90 W.
- (8) Licensee should be aware that United States Coast Guard, Navy, Air Force and Army operations may be assigned to these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (9) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by US Coast Guard contract DTG23-02-C-2DW001. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.