

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

EXPERIMENTAL

(Nature of Service)

XC      FX MO

(Class of Station)

WD2XLF

(Call Sign)

0168-EX-PL-2004

(File Number)

NAME TICOM GEOMATICS, 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) Austin (TRAVIS), TX - NL 30-22-57; WL 97-44-41; MOBILE:within 32 km

Frequency Information

Austin (TRAVIS), TX - NL 30-22-57; WL 97-44-41; MOBILE:within 32 km

| Frequency | Station Class | Emission Designator                      | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|------------------------------------------|------------------|---------------------------|
| 2391 KHZ  | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 2391 KHZ  | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 3255 KHZ  | FX            | 3K00H3E<br>3K00J3E                       | 250 W (ERP)      | 0.005 %                   |

This authorization effective October 27, 2004 and  
will expire 3:00 A.M. EST November 01, 2006

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Austin (TRAVIS), TX - NL 30-22-57; WL 97-44-41; MOBILE:within 32 km

| Frequency | Station Class | Emission Designator                      | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|------------------------------------------|------------------|---------------------------|
| 3255 KHZ  | FX            | 3K00R3E<br>2K00J2A                       | 250 W (ERP)      | 0.005 %                   |
| 3255 KHZ  | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 4045 KHZ  | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 4045 KHZ  | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 5755 KHZ  | FX            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 5755 KHZ  | MO            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |

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| Frequency | Station Class | Emission Designator                      | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|------------------------------------------|------------------|---------------------------|
| 6055 kHz  | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 6055 kHz  | FX            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 6155 kHz  | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 6155 kHz  | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 6765 kHz  | MO            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 6765 kHz  | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E            | 250 W (ERP)      | 0.005 %                   |

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|-----------|---------------|------------------------------------------|------------------|---------------------------|
| 6765 KHZ  | FX            | 2K00J2A                                  | 250 W (ERP)      | 0.005 %                   |
| 6965 KHZ  | FX            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 6965 KHZ  | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 7405 KHZ  | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 7405 KHZ  | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 7645 KHZ  | MO            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |

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| 7645 KHZ  | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 7985 KHZ  | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 7985 KHZ  | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 8095 KHZ  | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 8095 KHZ  | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 9045 KHZ  | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E            | 250 W (ERP)      | 0.005 %                   |

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|-----------|---------------|------------------------------------------|------------------|---------------------------|
| 9045 kHz  | MO            | 2K00J2A                                  | 250 W (ERP)      | 0.005 %                   |
| 9045 kHz  | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 9345 kHz  | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 9345 kHz  | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 10195 kHz | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 10195 kHz | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |

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| 10595 kHz | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 10595 kHz | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 10795 kHz | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 10795 kHz | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 11545 kHz | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 11545 kHz | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E            | 250 W (ERP)      | 0.005 %                   |

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|-----------|---------------|------------------------------------------|------------------|---------------------------|
| 11545 KHZ | MO            | 2K00J2A                                  | 250 W (ERP)      | 0.005 %                   |
| 12085 KHZ | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 12085 KHZ | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 14545 KHZ | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 14545 KHZ | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 15755 KHZ | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |

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|-----------|---------------|------------------------------------------|------------------|---------------------------|
| 15755 kHz | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 15855 kHz | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 15855 kHz | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 15955 kHz | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 15955 kHz | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 16055 kHz | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E            | 250 W (ERP)      | 0.005 %                   |

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|-----------|---------------|------------------------------------------|------------------|---------------------------|
| 16055 KHZ | FX            | 2K00J2A                                  | 250 W (ERP)      | 0.005 %                   |
| 16055 KHZ | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 16155 KHZ | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 16155 KHZ | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 17445 KHZ | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 17445 KHZ | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |

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| Frequency | Station Class | Emission Designator                      | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|------------------------------------------|------------------|---------------------------|
| 18035 kHz | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 18035 kHz | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 18605 kHz | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 18605 kHz | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 19455 kHz | FX            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 19455 kHz | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E            | 250 W (ERP)      | 0.005 %                   |

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|-----------|---------------|------------------------------------------|------------------|---------------------------|
| 19455 KHZ | MO            | 2K00J2A                                  | 250 W (ERP)      | 0.005 %                   |
| 20455 KHZ | FX            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 20455 KHZ | MO            | 3K00H3E<br>3K00J3E<br>3K00R3E<br>2K00J2A | 250 W (ERP)      | 0.005 %                   |
| 20955 KHZ | MO            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 20955 KHZ | FX            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 22855 KHZ | FX            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |

## Frequency Information

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| Frequency | Station Class | Emission Designator                      | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|------------------------------------------|------------------|---------------------------|
| 22855 kHz | MO            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 23155 kHz | MO            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 23155 kHz | FX            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 24455 kHz | MO            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 24455 kHz | FX            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 25225 kHz | MO            | 2K00J2A<br>3K00H3E<br>3K00J3E            | 250 W (ERP)      | 0.005 %                   |

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|-----------|---------------|------------------------------------------|------------------|---------------------------|
| 25225 KHZ | MO            | 3K00R3E                                  | 250 W (ERP)      | 0.005 %                   |
| 25225 KHZ | FX            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 26485 KHZ | MO            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 26485 KHZ | FX            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 26905 KHZ | MO            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 26905 KHZ | FX            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |

## Frequency Information

Austin (TRAVIS), TX - NL 30-22-57; WL 97-44-41; MOBILE:within 32 km

| Frequency | Station Class | Emission Designator                      | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|------------------------------------------|------------------|---------------------------|
| 27435 kHz | MO            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 27435 kHz | FX            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 27985 kHz | MO            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 27985 kHz | FX            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 29715 kHz | MO            | 2K00J2A<br>3K00H3E<br>3K00J3E<br>3K00R3E | 250 W (ERP)      | 0.005 %                   |
| 29715 kHz | FX            | 2K00J2A<br>3K00H3E<br>3K00J3E            | 250 W (ERP)      | 0.005 %                   |

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|-----------|---------------|---------------------|------------------|---------------------------|
| 29715 kHz | FX            | 3K00R3E             | 250 W (ERP)      | 0.005 %                   |

Special Conditions:

- (1) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by US Navy contract number 03-G-3300, Task Order 007. 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.