FY06 US LORAN Performance Review

Prepared for ILA 35

Groton, CT

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Overview

- Overview of US Loran System
- Detailed Review of FY06 Loran Performance
- Brief Look Ahead to FY07



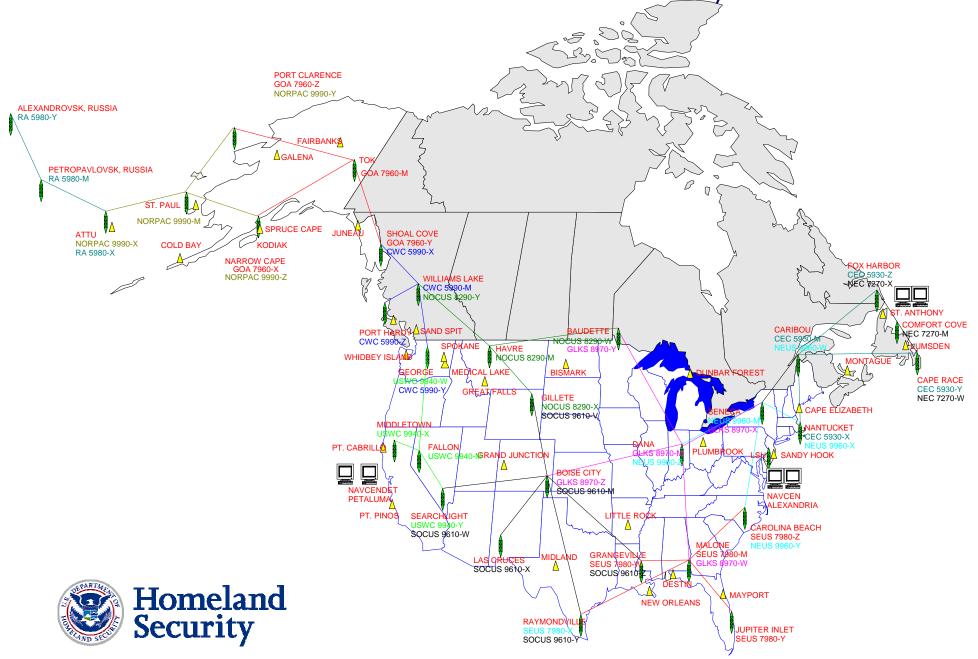
US Loran Overview

- 24 Loran Stations
- 24 Monitor Sites
- 2 Control Stations (Alexandria, VA & Petaluma, CA)

- 2 Shared Chains with Canada
- 1 Shared Chain with Russia



North American Loran-C System



FY06 US LORAN-C Performance



> Lorsta Attu with Gilbert ridge in the background



Kodiak's new TFE & nSSX addition





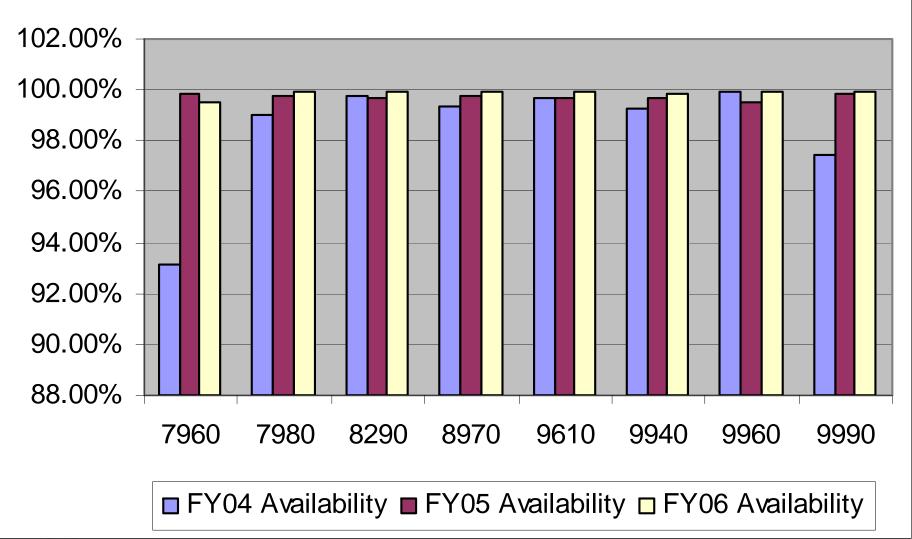
FY06 Preview

- Major solar impacts:
 - Total solar unusable time for 7960 in FY06: > 8, 500 minutes
 - Traditionally most solar UUT is attributed to Port Clarence near the arctic circle just north of Nome.
- Continued system improvements:

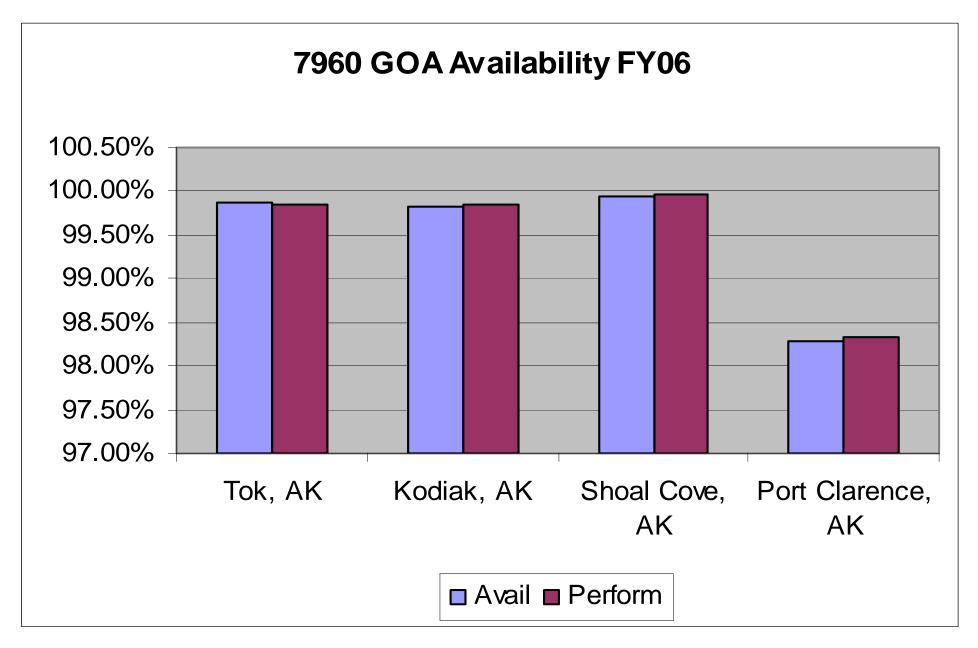
TFE & New solid state transmitter at 1 Alaska LORSTA.



LORAN-C Availability FY04-FY06









7980 SEUS Availability FY06 100.02% 100.00% 99.98% 99.96% 99.94% 99.92% 99.90% 99.88% 99.86% 99.84% 99.82% Carolina Malone Grange Raymond Jupiter ■ Avail ■ Perform

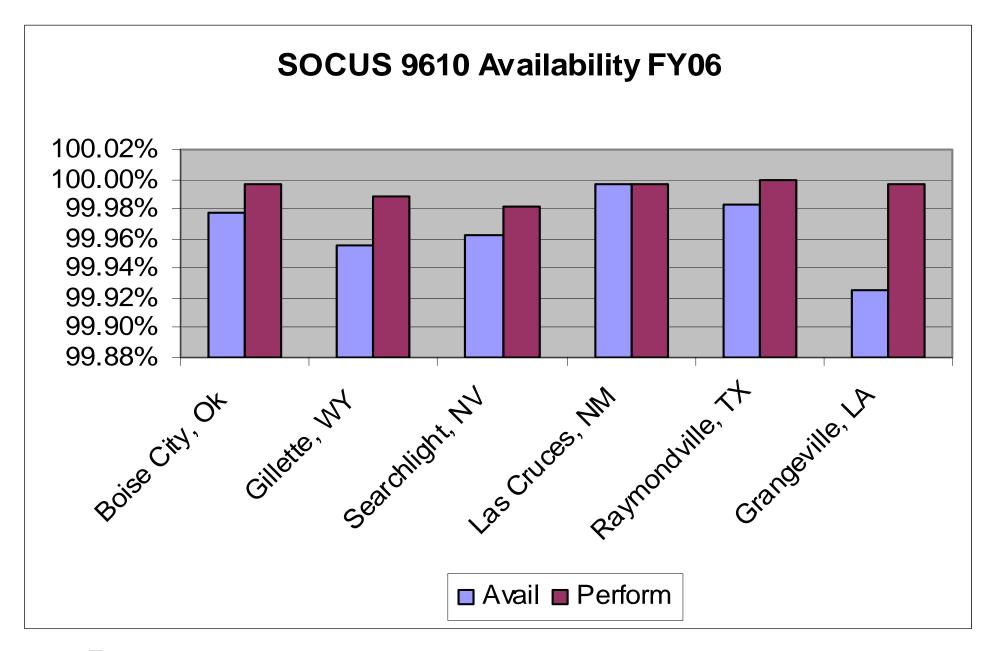


8290 NOCUS Availability FY 06 100.02% 100.00% 99.98% 99.96% 99.94% 99.92% 99.90% 99.88% 99.86% Havre, MT Gillette, Williams Baudette, WY Lake, BC MN ■ Avail ■ Perform



8970 GLSK Availability FY 06 100.00% 99.98% 99.96% 99.94% 99.92% 99.90% 99.88% Dana, IN Malone, FL Seneca, Baudette, Boise City, NY MN OK ■ Avail ■ Perform







9940 USWC Availability FY06 100.05% 100.00% 99.95% 99.90% 99.85% 99.80% 99.75% 99.70% 99.65% Fallon, NV George, WA Middletown, Searchlight, CA NV ■ Avail ■ Perform



9960 NEUS Availability FY06 100.01% 100.00% 99.99% 99.98% 99.97% 99.96% 99.95% 99.94% 99.93% 99.92% 99.91% 99.90% Caribou, Nantucket, Carolina Seneca, Dana, In NY ME MA Beach, NC ■ Avail ■ Perform



9990 NORPAC Availability FY06 100.02% 100.00% 99.98% 99.96% 99.94% 99.92% 99.90% 99.88% 99.86% 99.84% 99.82% Saint paul, AK Port Clarence, Kodiak, AK Attu, AK AK ■ Avail ■ Perform



LORAN-C Performance FY06 100.10% 100.00% 99.90% 99.80% 99.70% 99.60% 99.50% 99.40% 99.30% 99.20% 7960 7980 8290 8970 9610 9960 9940 9990





FY06 Review

- Chain / baseline availability : 99.9%
 - Authorized unusable time due emergencies and tower maintenance
 - Solar events
- Modernization of all CONUS LORSTAs completed in 2005 and Kodiak, AK in February 2006.



Summary

FY06 Operations were a success.

Thank you for your attention ... your questions?





Homeland Security

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