

FY06 US LORAN Performance Review

Prepared for ILA 35

Groton, CT

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24 Oct 2006



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Overview

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



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US Loran Overview

24 Loran Stations

24 Monitor Sites

2 Control Stations (Alexandria, VA & Petaluma, CA)

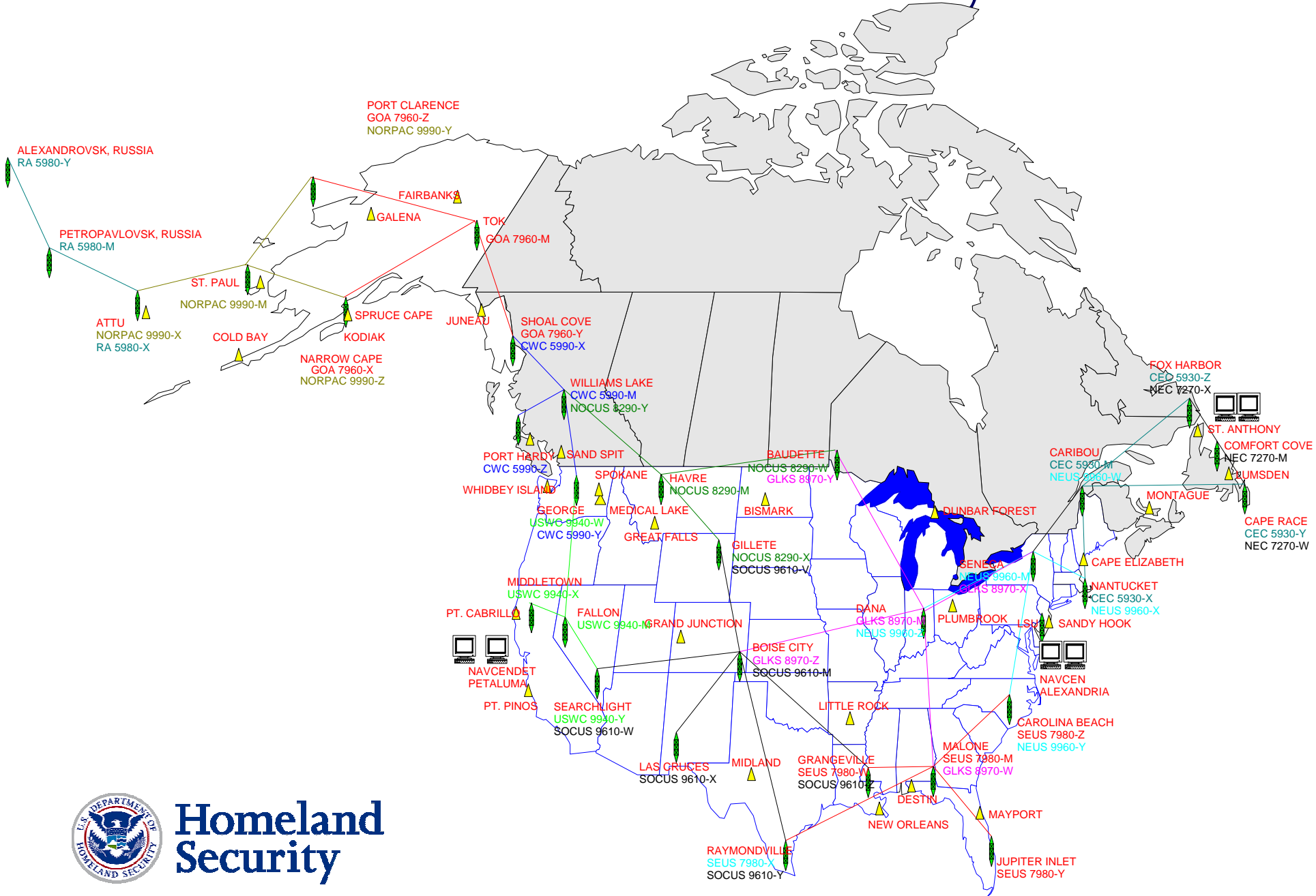
2 Shared Chains with Canada

1 Shared Chain with Russia



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North American Loran-C System



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FY06 US LORAN-C Performance



➤ ***Lorsta Attu with Gilbert ridge in the background***



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Kodiak's new TFE & nSSX addition



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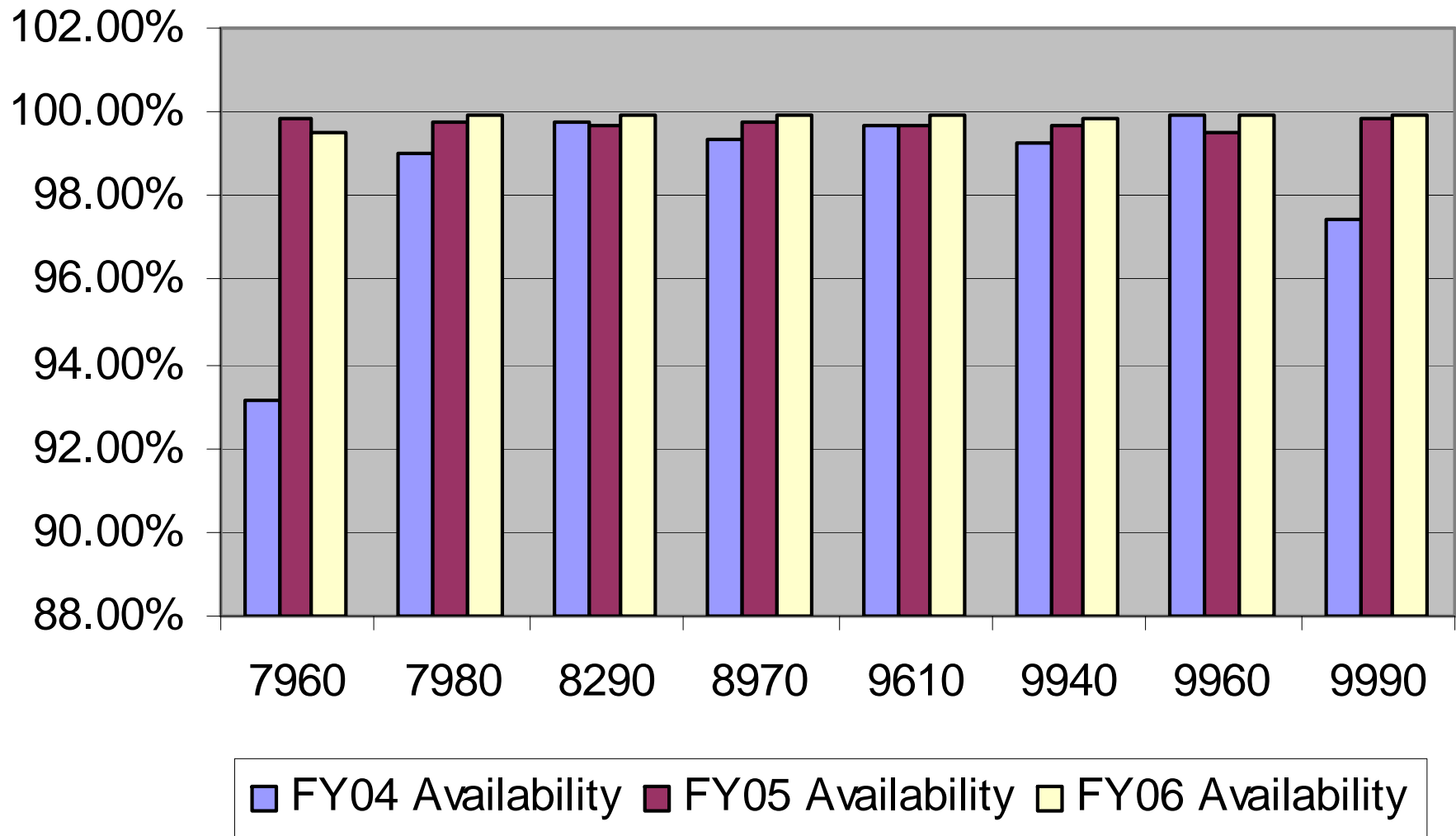
FY06 Preview

- 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.



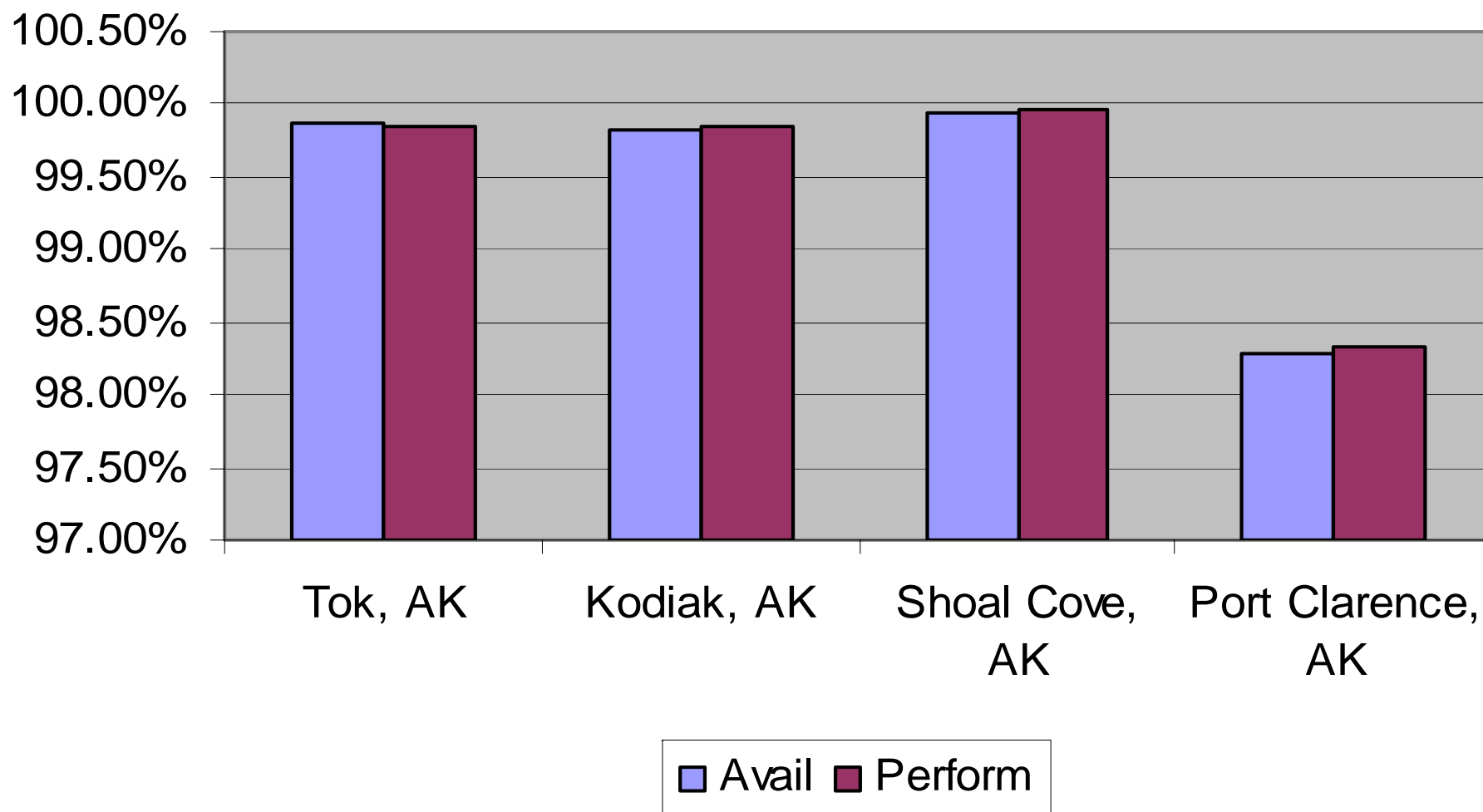
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LORAN-C Availability FY04-FY06



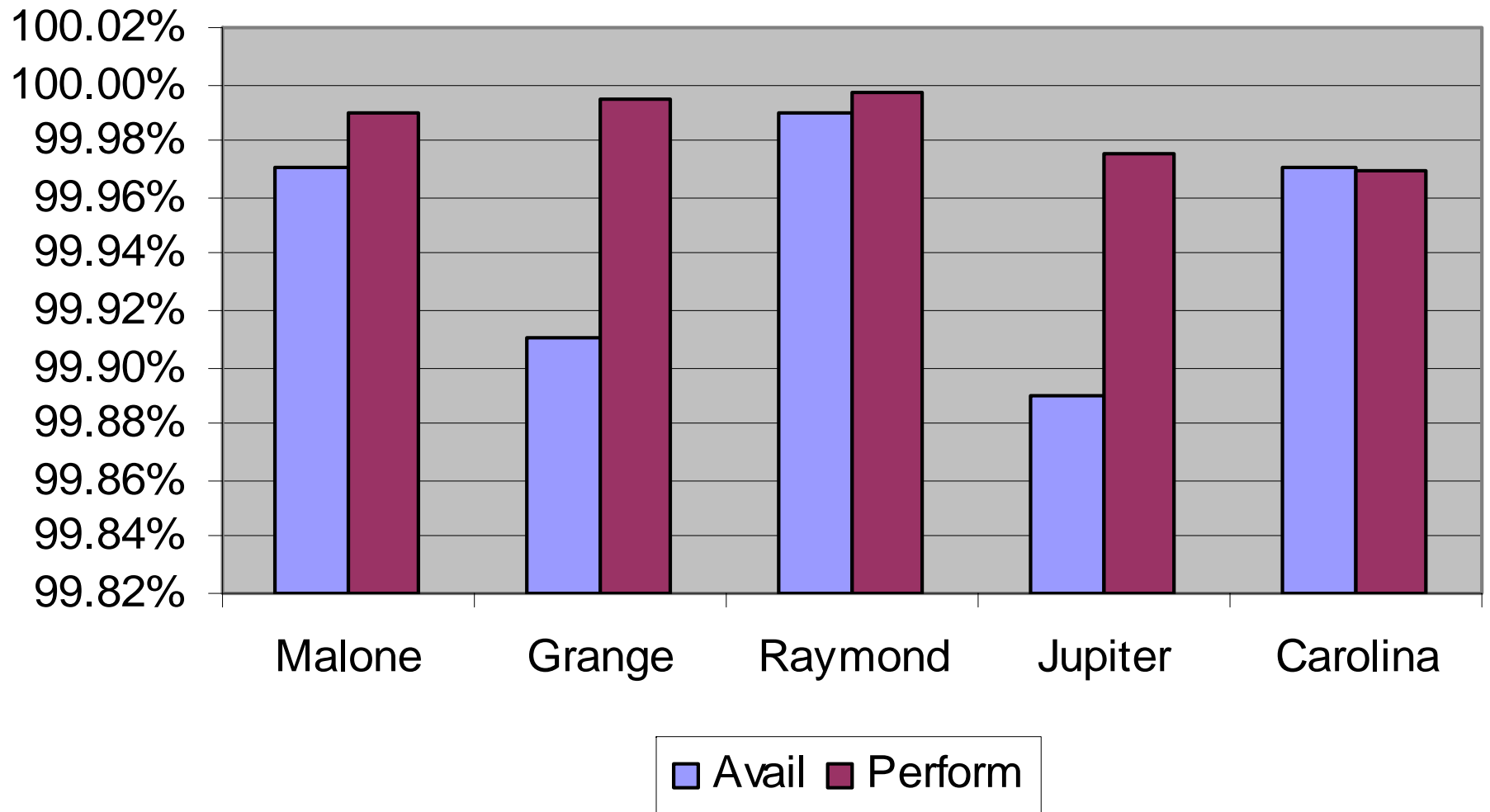
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7960 GOA Availability FY06



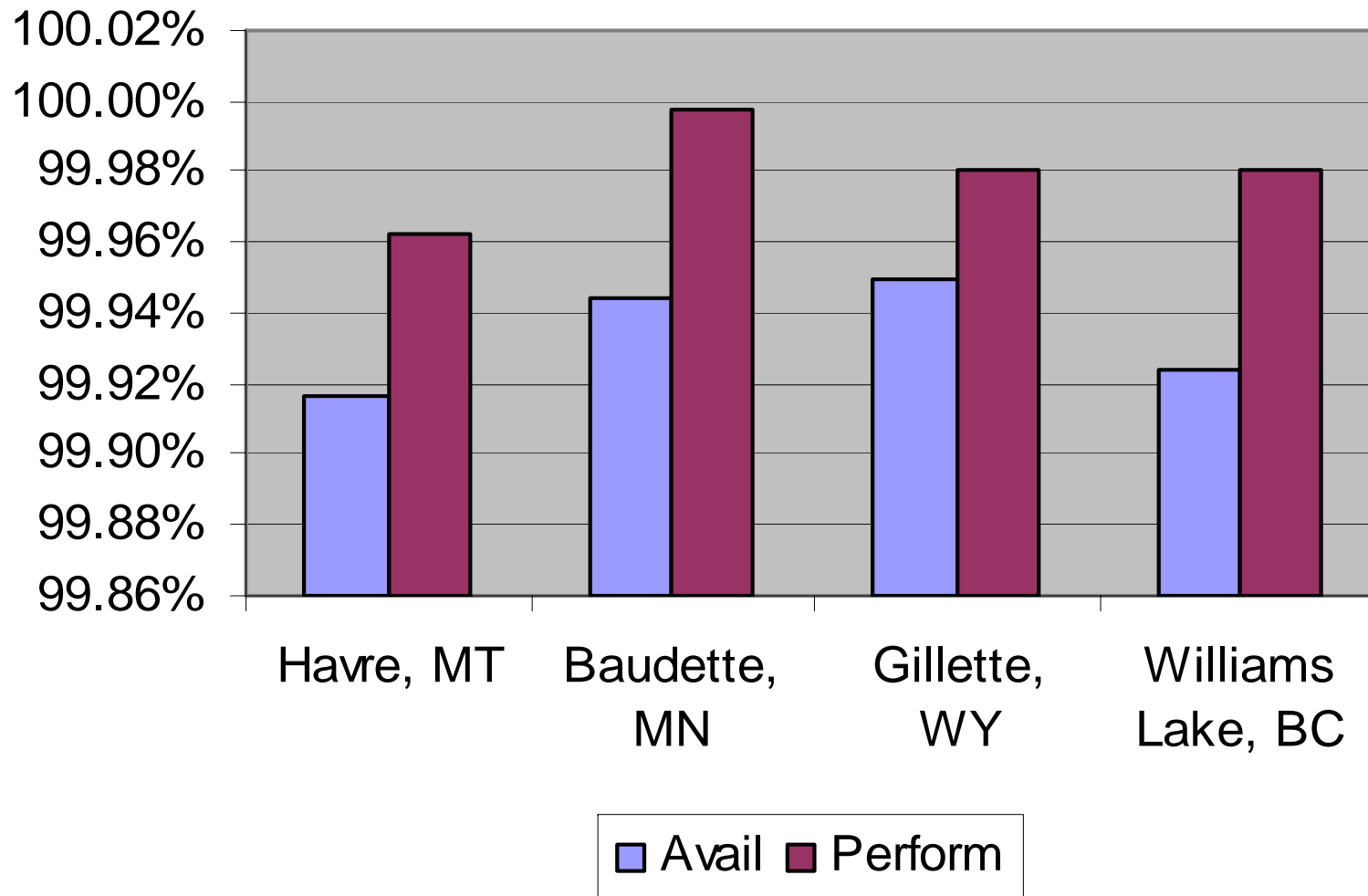
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7980 SEUS Availability FY06



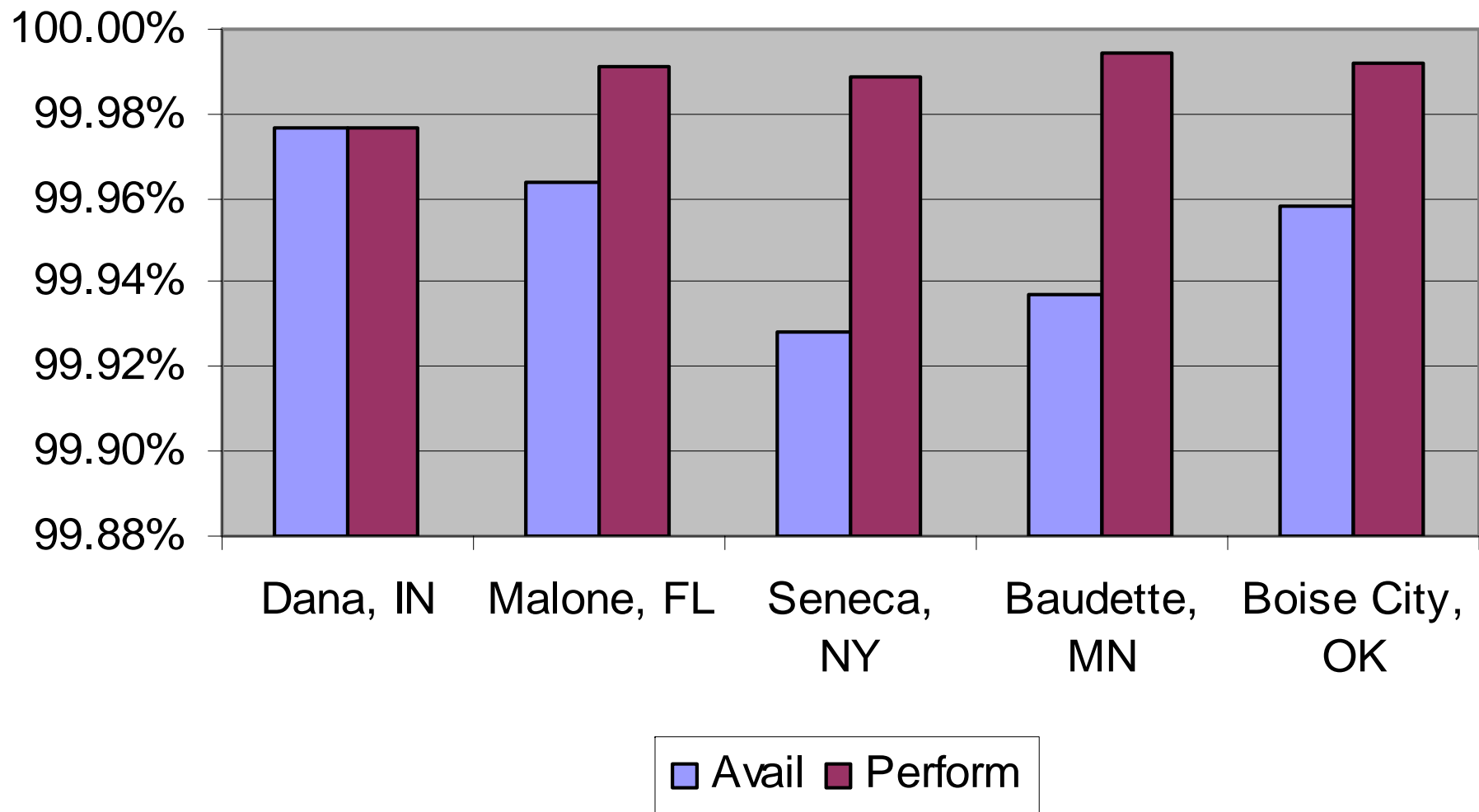
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8290 NOCUS Availability FY 06



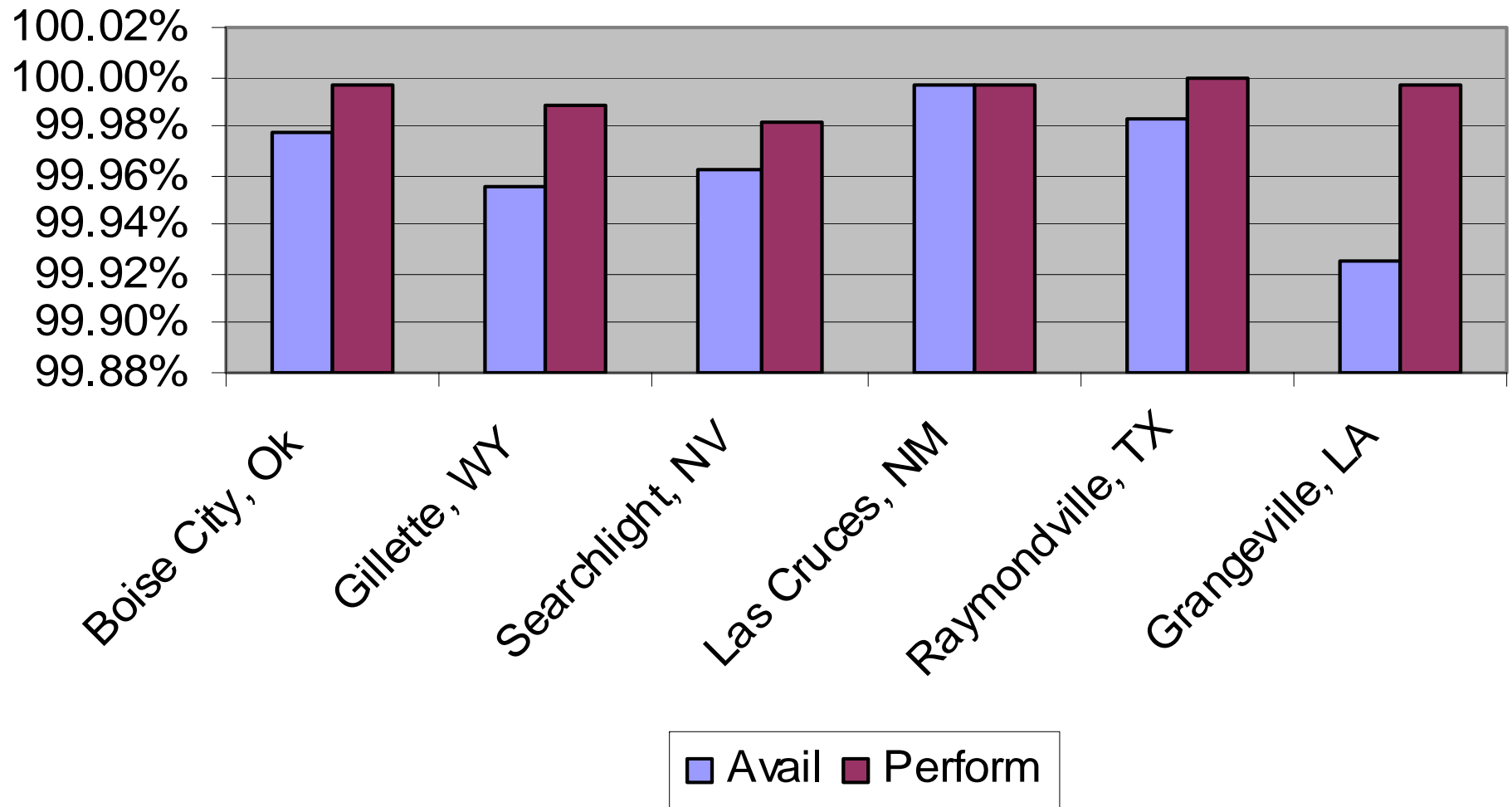
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8970 GLSK Availability FY 06



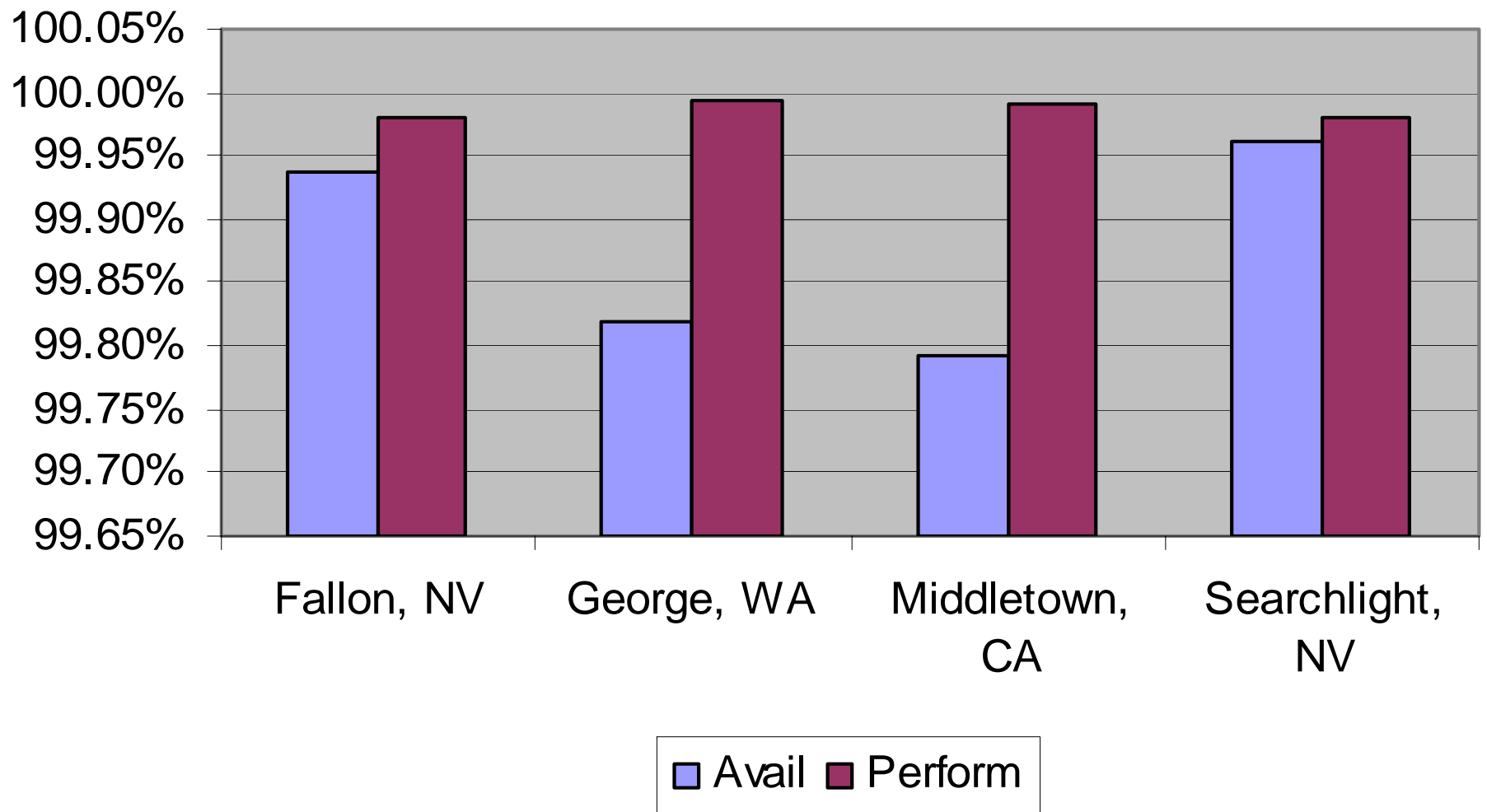
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SOCUS 9610 Availability FY06



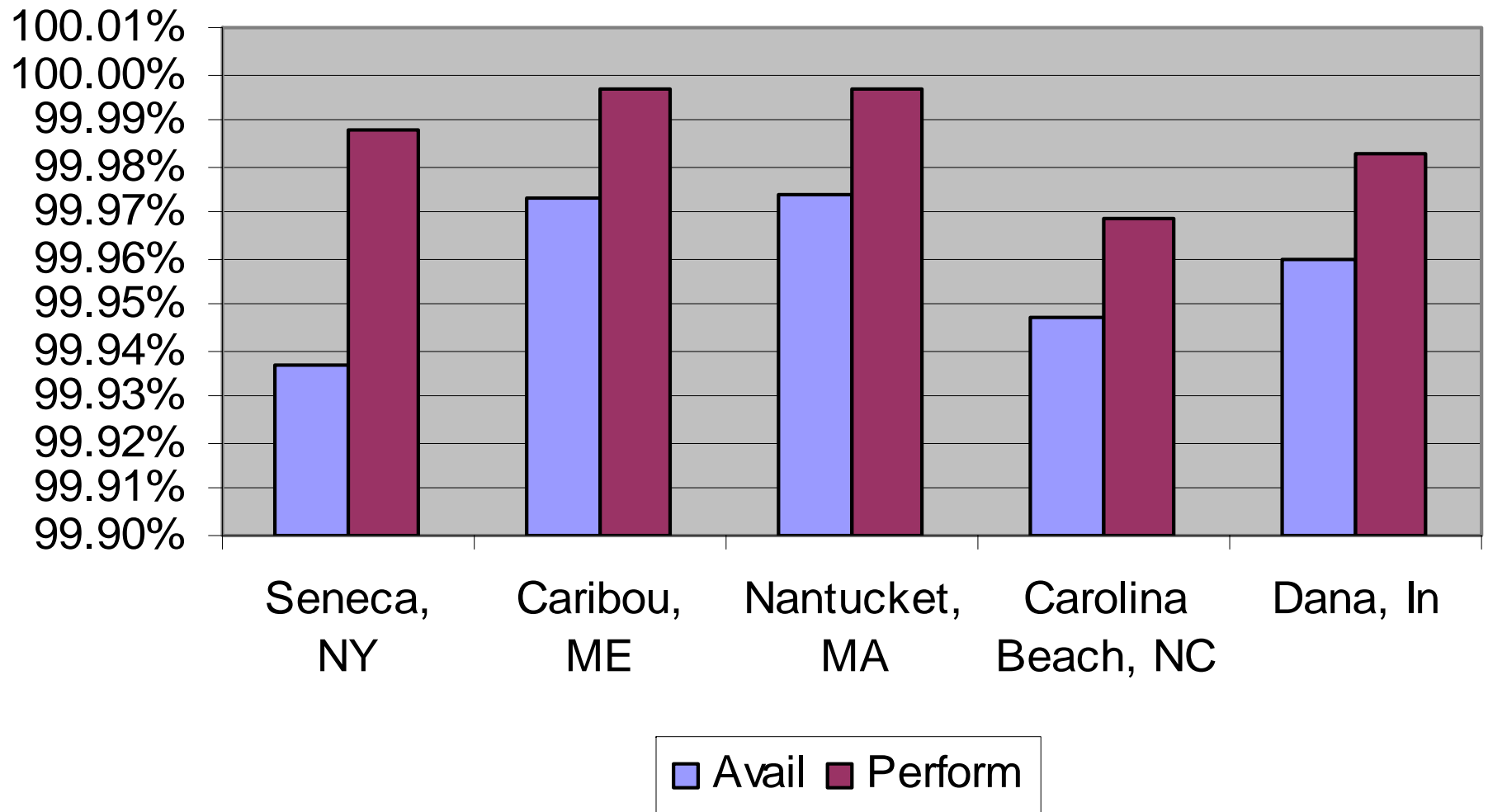
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9940 USWC Availability FY06



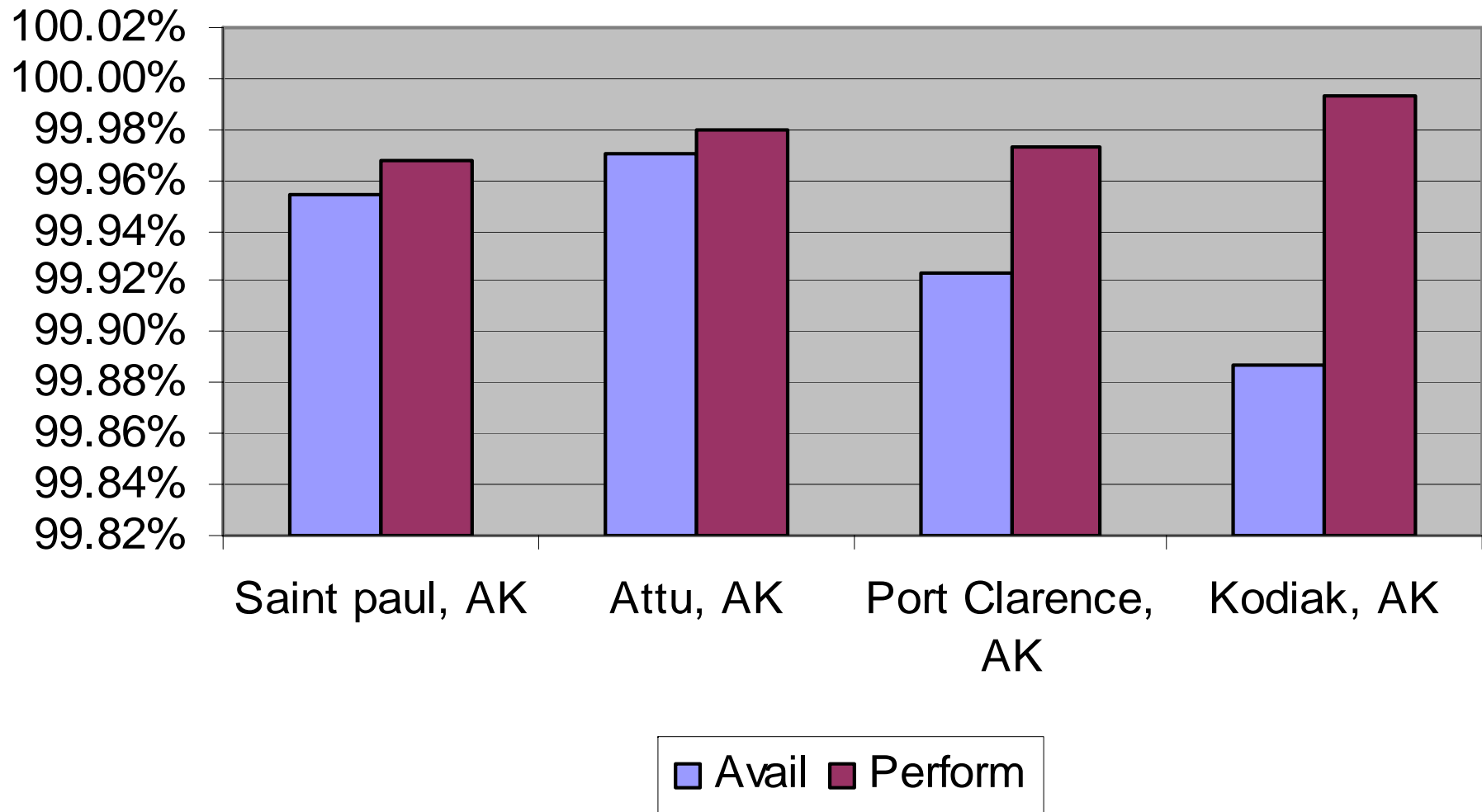
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9960 NEUS Availability FY06



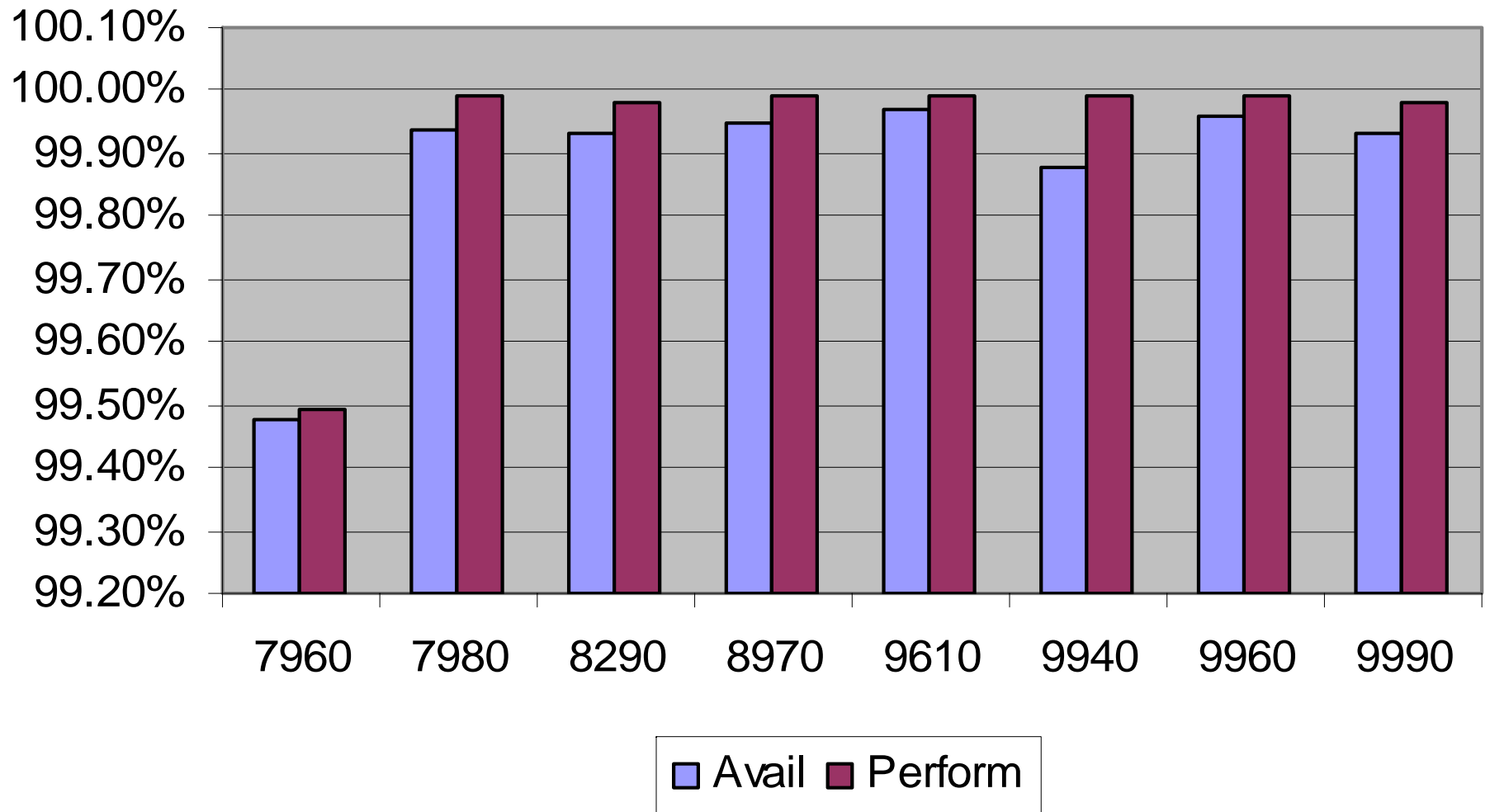
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9990 NORPAC Availability FY06



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LORAN-C Performance FY06



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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.



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Summary

- FY06 Operations were a success.
- Thank you for your attention ... your questions?



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