Document released in part; withheld in part as (b)(5).

Aviation Security February 19, 2003 Review

First Year Accomplishments

- Application of Aviation Security Reporting System for Security Investigated
 - Reports processed with structured call back
- Developed Aviation security laboratory and processing infrastructure
 - Lab available for NASA/FAA workshop
 - · Biometric and ID devices procured and working
 - Focal point for various tours
- Knowledge acquisition and categorization
 - Voquette-based system provides demos of main aspects of passenger flow where IT could be injected
 - Brought in data from web
 - Under Voquette-developed software acquired Lexis-Nexis data on 12000 pseudo passengers (prior to availability of Northwest Passenger Data)

More First Year

- Data mining
 - 90 days of Northwest Airlines CD data decoded so that they could be rapidly read
 - Would have taken a year to read with software supplied with CDs and discussions with software vendor did not promise significant improvements.
 - · Under current approach will take a matter of days
 - Preliminary mining on
 - Pseudo-passengers with Lexis-Nexis data
 - · Preliminary NW Airlines data
 - Data mining investigation under external contact to Study of Learning and Expertise (ISLE)
 - . Mining of non-sensitive census data that mirrors passenger data
 - · Algorithms investigated by ISLE
 - · New algorithm created for anomaly detection



