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	Record Description	Request Item No.	Bates Pages	# of Pages	Disposition and/or Exemptions
1	A 30-slide presentation titled: <i>Passenger Threat Assessment Break-out Session</i> , given at the NASA/FAA Aviation Security R & D Workshop on January 23, 2003. The presentation supported preliminary discussions among representatives of the National Aeronautics and Space Administration (NASA) and the Federal Aviation Administration (FAA) concerning possible agency cooperation on aviation security. 4 slides define the objectives and propose the agenda for the session. 26 slides describe NASA's 4 areas of research for identifying passenger threats. Only slides 15-22 are responsive to FOIA request in that they concern the specific research in which the NWA data was used. Slide 18 specifically describes the NWA data.	2) concerns/ describes the data	1-15	15	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds these charts as predecisional. The charts represent preliminary discussions between NASA and FAA concerning possible cooperative research efforts intended to develop a system able to identify passengers who pose a threat to aviation safety. These charts do not purport to represent final decisions concerning cooperation between NASA and FAA. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Additionally, some of the information addresses perceived weaknesses in airport security. Release of this predecisional, deliberative information could be harmful to the government because individuals wishing to exploit these airport weaknesses could adversely use it.
2	A 28-slide preliminary draft of presentation of <i>Passenger Threat Assessment Break-out Session</i> , Document No. 1. 4 slides define the objectives and propose the agenda for the session. Identifies the questions that the session needs to answer. 24 slides describe NASA's research for identifying passenger threats. Slides 15-21 describe the project that the NWA data was used in. Slide 18 describes the data.	2) concerns/ describes the data	16-29	14	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this record as predecisional. The record is a draft of Document No.1. These charts were preliminary in nature and do not represent a final agency record of the information presented during the preliminary discussions between NASA and the FAA. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Additionally, some of the information addresses perceived weaknesses in airport security. Release of this predecisional, deliberative information could be harmful to the government because individuals wishing to exploit these airport weaknesses could adversely use it.
3	9 presentation slides on data mining research, which are contained in <i>Passenger Threat Assessment Break-out Session</i> , Document No. 1. Slides 1-7 are duplicates of Document No. 1, slides 15-22. Slide 8 and 9 are different than the slides contained in Document No. 1.	2) concerns/ describes the data	30-33	4	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds these charts as predecisional. These charts were preliminary in nature and do not represent a final agency record. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.

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4	<p>Personal notes describing the presentation <i>Passenger Threat Assessment Break-out Session</i> (Document No. 1) given at the NASA/FAA Aviation Security R & D Workshop on January 23, 2003, and the ensuing discussions on various aviation security-related topics.</p>	<p>2) concerns/ describes the data</p>	<p>35-38</p>	<p>4</p>	<p>Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this report as predecisional. The record is made up of personal notes taken during the preliminary discussions between NASA and the FAA. The notes do not represent a final agency record. Additionally, the discussions captured are preliminary and represent inter-agency discussions about possible collaboration on research to increase aviation security. If such preliminary information were to be released and subjected to public scrutiny before they could be debated and refined, the employees involved would be reluctant to commit such information to writing. The result would be to deprive the individual a record of discussions that would ultimately, adversely affect the quality of recommendations and counsel provided to the decision maker.</p>
5	<p>This report is titled <i>Breakout Session: Passenger Threat Assessment Break-out Session</i> and summarizes the preliminary discussions between NASA and the FAA during the Passenger Threat Assessment Break-out Session at the Aviation Security Workshop in January 2002. The report summarizes the NASA and FAA briefs concerning ongoing aviation security efforts at each agency (NASA brief is Document No. 1), the recommendations resulting from the session, and the subsequent discussions initiated during by the session. Of the 9-page, 3-section report, 1 section of 2 pages is responsive to the request and describes the research program in which the NWA data was being used. One paragraph describes the preliminary results obtained by an initial analysis conducted on the NWA data just prior to the workshop.</p>	<p>2) concerns/ describes the data</p>	<p>39-47</p>	<p>9</p>	<p>Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this report as predecisional. The report summarizes preliminary internal governmental discussions concerning possible collaboration on research to increase aviation security and summarizes the presentations given at the January 2002 workshop. These suggestions and ideas do not purport to represent final decisions concerning cooperation between NASA and FAA. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Some of the information addresses perceived weaknesses in airport security. Release of this predecisional, deliberative information would be harmful to the government because individuals wishing to exploit airport weaknesses could potentially use it.</p>
6	<p>This draft record is titled <i>Passenger Threat Assessment Break-out Session</i> and is a draft of Document No. 1, a presentation given at the Passenger Threat Assessment Break-out Session at the Aviation Security Workshop in January 2002.</p>	<p>2) concerns/ describes the data</p>	<p>48-56</p>	<p>9</p>	<p>Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this report as predecisional. The report is a draft and does not reflect a final agency record. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.</p>

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7	This is a 4-section, funding proposal titled <i>Data Mining for Aviation Security FY 03 Proposal- 1/17/2003</i> . The record seeks continued funding for the data mining research effort, which used the NWA data. One half of the section titled: <i>Concept</i> discusses NASA's efforts related to reading the NWA data. The record provides an overview of the research conducted in 2002, future milestones and proposes the FY 03 budget requirements.	2) concerns/ describes the data	57-58	2	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this entire record as predecisional. The record is proposal for additional funding for a research project that ultimately was not pursued, and therefore does not represent a final agency record. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
8	This is a draft of the 4-section, funding proposal titled <i>Data Mining for Aviation Security FY 03 Proposal- 1/17/2003</i> (Document No.7). The record seeks continued funding for the data mining research effort that used the NWA passenger data. This version contains edited text.	2) concerns/ describes the data	59-61	3	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this draft report as predecisional. This is a draft of the report listed as Document No.7 This draft report does not purport to represent a final agency decisions concerning continued funding of this research nor is it the researcher's final proposal. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Some of the information addresses perceived weaknesses in airport security. Release of this predecisional, deliberative information would be harmful to the government because individuals wishing to exploit airport weaknesses could adversely use it.
9	5-slide presentation titled <i>Aviation Security</i> ; dated Feb. 19, 2003. It explains the first year accomplishments of ARC's aviation security research and proposes milestones for the remainder of FY03. 3 charts are related to research that included NWA data. 1 chart identifies the accomplished milestones related to decoding the NWA.	2) concerns/ describes the data	62-64	3	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this presentation as predecisional. The presentation discusses the status of preliminary research and proposes future efforts. The presentation does not reflect a final agency decision. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
10	3-slide draft of <i>Aviation Security</i> presentation dated Feb. 19, 2003, (Document No. 9, Bates stamped 61-63). It explains the first year accomplishments of program and proposing milestones for the remainder of FY03.	2) concerns/ describes the data	65-66	2	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this draft report as predecisional. This is a draft of Document No. 9, Bates stamped 61-63 and does not represent the final agency record. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.

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11	4-page task plan titled <i>APITAS Data Mining Task Plan</i> ; dated December 17, 2001. This task plan proposes the technical approach, staffing and milestones for the automated passenger identification and threat assessment system's data mining research, in which the NWA data was used. This record identifies the objectives and milestones for the research. The plan is written in the future tense and the 5 references to the NWA data are speculative.	2) concerns the data	67-70	4	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this record as predecisional. This record represents the proposed course of research and does not represent a final agency decision concerning research intended to develop a system able to identify passengers who pose a threat to aviation safety. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
12	Research proposal titled <i>Automated Passenger Identification, Threat Assessment and Problem Reporting System (APTASRS)</i> ; dated December 21, 2001. The data mining effort that included the use of the NWA data was a part of this effort. This research proposal addresses the milestones and objectives of the research. Document No. 11 was incorporated into this document.	2) concerns the data	71-92	22	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this record as predecisional. This record represents the proposed course of research and does not represent a final agency decision concerning research intended to develop a system able to identify passengers who pose a threat to aviation safety. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
13	This is a draft of the research proposal titled <i>Automated Passenger Identification, Threat Assessment and Problem Reporting System (APTASRS)</i> , dated December 21, 2001 (Document No. 12).	2) concerns the data	93-113	22	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this record as predecisional. This record is a draft document and does not represent a final agency record. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
14	This is a draft of the research proposal titled <i>Automated Passenger Identification, Threat Assessment and Problem Reporting System (APTASRS)</i> , dated December 21, 2001 (Document No. 12).	2) concerns the data	115-126	12	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this record as predecisional. This record is a draft document and does not represent the final agency record. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
15	Draft letter to Northwest Airlines requesting passenger data. This letter was not sent.	2) concerns the data	127	1	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this draft letter as predecisional. This draft letter was not finalized nor did this signatory send the letter ultimately requesting the data. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.

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16	Draft agenda for a meeting on December 10-11, 2001, between NASA and NWA representatives concerning aviation security research.	2) concerns the data	128	1	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this draft proposal as predecisional. This is a draft agenda and is not a final agency record. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
17	Draft agenda for meeting in December 10-11, 2001, between NASA and NWA representatives concerning aviation security research. This version identifies different speakers.	2) concerns the data	129	1	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this draft proposal as predecisional. This is a draft agenda and is not a final agency record. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
18	This is the final version of an internal NASA document titled <i>Automated Passenger Threat Assessment and Security Reporting System Accomplishments to Date</i> , dated December 13, 2002. The document is marked "for Internal NASA Use Only" and carries a disclaimer that some of its information may contain Northwest Airlines Proprietary Data. The record describes the research's accomplishments through December 2002, and plans for further research. Of the 15-page, 5-section report, only Section 4 includes information related to the NWA data.	2) concerns/ describes the data	130-144	15	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this document as predecisional. The document's limited distribution indicates the preliminary nature of its contents and was provided to ARC management as the aviation security research was being rescoped and prior to ARC management cutting the research's funding. The report describes the status of the aviation security-related research at that time and proposed future milestones. The accomplishments were preliminary and NASA did not fund the future plans. As such, the research was not completed and there is no final report. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Some of the information addresses perceived weaknesses in airport security. Release of this predecisional, deliberative information would be harmful to the government because individuals wishing to exploit airport weaknesses may adversely use it.
19	This is the draft version of the internal NASA document, <i>Automated Passenger Threat Assessment and Security Reporting System Accomplishments to Date</i> , (Document No.18) dated December 13, 2002. It describes the accomplishments of the research related to aviation security and plans for further research. Of the 15-page, 5-section report, only section 4 discusses efforts related to the NWA data and describes the data.	2) concerns/ describes the data	145-160	16	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this draft document as predecisional. The record is a draft report and is not the final agency record. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Some of the information addresses perceived weaknesses in airport security. Release of this predecisional, deliberative information would be harmful to the government because individuals wishing to exploit airport weaknesses may adversely use it.

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20	This is the draft version of the internal NASA document, <i>Automated Passenger Threat Assessment and Security Reporting System Accomplishments to Date</i> , (Document No.18) dated October 2002. This document contains appendences that were not included in the final draft.	2) concerns/ describes the data	161-191	31	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this draft document as predecisional. The record is a draft report and is not the final agency record. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Some of the information addresses perceived weaknesses in airport security. Release of this predecisional, deliberative information would be harmful to the government because individuals wishing to exploit airport weaknesses may adversely use it.
21	An 18-page document titled <i>Data Mining for Aviation Security</i> , dated October 2, 2002. It addresses the data mining effort for the aviation security research, of which NWA data was a part. Pages 1 through 6 discuss the content of the NWA data and the efforts taken to access and use the data. Pages 7 through 9 address similar efforts with other databases. Appendix A is a sample passenger number record (PNR) of one of the researchers. Appendix B is a sample of the program's output. Appendix C is the output on another researcher using another database.	2) concerns/ describes the data	192-209	18	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this document as predecisional. The report describes the accomplishments of data mining effort for aviation security-related research. Most of this information was incorporated into the <i>Automated Passenger Threat Assessment and Security Reporting System Accomplishments to Date</i> (Document No.18). If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Pursuant to 5 U.S.C. § 552(b)(6), NASA withholds the names and related personal and financial data contained within the PNRs in the Appendices from release. Release of this personal information would be an unwarranted invasion in the passengers' privacy and would expose personal information, such as home phone numbers and credit card information, to the general public where it could be adversely exploited. Additionally, the passengers' privacy interest in this information outweighs the public interest in its release as it does not shed light onto the actions and decisions of the federal government.
22	This is the draft of the October 2002 version of the internal NASA document, <i>Automated Passenger Threat Assessment and Security Reporting System Accomplishments to Date</i> (Document No. 20). The draft document lays out initial thoughts and tasking to team members to compile the report.	2) concerns/ describes the data	210-229	20	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this draft document as predecisional. The record is a draft report and is not the final agency record. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Some of the information addresses perceived weaknesses in airport security. Release of this predecisional, deliberative information would be harmful to the government because individuals wishing to exploit airport weaknesses may adversely use it.

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23	This is an 89-page draft of the October 2002 version of the internal NASA document, <i>Automated Passenger Threat Assessment and Security Reporting System Accomplishments to Date</i> (Document No. 20). This version of the draft report had been corrupted and subsequently recovered. It includes 45 pages of corrupted text.	2) concerns/ describes the data	230-318	89	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this draft document as predecisional. The record is a draft report and is not the final agency record. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Release of this predecisional, deliberative information would be harmful to the government because individuals wishing to exploit airport weaknesses may adversely use it.
24	This is a 15-page draft of the October 22, 2002, version of the <i>Automated Passenger Threat Assessment and Security Reporting System Accomplishments to Date</i> (Document No. 20) dated December 16, 2002.	2) concerns/ describes the data	319-332	15	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this draft document as predecisional. The record is a draft report and is not the final agency record. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Some of the information addresses perceived weaknesses in airport security. Release of this predecisional, deliberative information would be harmful to the government because individuals wishing to exploit airport weaknesses may adversely use it.
25	This is a 15-page draft of the October 22, 2002, version of the <i>Automated Passenger Threat Assessment and Security Reporting System Accomplishments to Date</i> (Document No. 20, Bates stamped 160-188) dated December 16, 2002.	2) concerns/ describes the data	333-348	15	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this draft document as predecisional. The record is a draft report and is not the final agency record. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Some of the information addresses perceived weaknesses in airport security. Release of this predecisional, deliberative information would be harmful to the government because individuals wishing to exploit airport weaknesses may adversely use it.
26	This is a 10-page draft of the <i>Automated Passenger Threat Assessment and Security Reporting System Accomplishments to Date</i> (Document No. 20) dated October 22, 2002.	2) concerns/ describes the data	349-358	10	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this draft document as predecisional. The record is a draft report and is not the final agency record. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Some of the information addresses perceived weaknesses in airport security. Release of this predecisional, deliberative information would be harmful to the government because individuals wishing to exploit airport weaknesses may adversely use it.

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27	A 6-page draft of the <i>APITAS Security Lab Task Plan</i> dated December 19, 2001, describes the prototype facility and its demonstrations in which the aviation research was being conducted. There are 3 references to the NASA data - each worded in the future tense and indicating what NASA hopes to learn from the data.	2) concerns the data	359-364	5	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this document as predecisional. The record is a draft record and is not the final agency record. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Some of the information addresses perceived weaknesses in airport security. Release of this predecisional, deliberative information would be harmful to the government because individuals wishing to exploit airport weaknesses may adversely use it.
28	This is a 10-page document titled <i>NASA Narrative for Lab Processing</i> . It describes in detail the goals, actions and data requirements of each major kiosk to be demonstrated in the January 2002 aviation security lab demonstration. This document includes a reference to the NWA data instructing the researchers when to load the data.	2) concerns the data	365-374	9	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this record as predecisional. This is an internal agency document coordinating the research teams' activities to support a demonstration. This document represents preliminary research intended to produce a system able to identify passengers who pose a threat to aviation safety, but however, funding was terminated prior to achieving those goals. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Some of the information addresses perceived weaknesses in airport security. Release of this predecisional, deliberative information would be harmful to the government because individuals wishing to exploit airport weaknesses may adversely use it.
29	This is a draft 4-page record titled <i>Integrated Software System for Airline Passenger Identification and Threat Assessment</i> . The record is marked "draft" at the top. The record discusses the technical approach for designing, developing, and deploying a software system to support researching novel airline passenger screening and airspace threat assessment technologies. The document is an overview and does not discuss specific techniques or capabilities. Minimal references to NWA data; notes ARC has the data.	2) concerns the data	375-378	4	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this record as predecisional. This is an internal agency document coordinating the research teams' activities to support a demonstration. This document represents preliminary research intended to produce a system able to identify passengers who pose a threat to aviation safety, but however, funding was terminated prior to achieving those goals. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
30	The record is a one-page summary of the June 26, 2002, <i>IT [Information Technology] for Aviation Security Meeting</i> . The record provides the status of ongoing actions related to the research, including the status of parsing the NWA data.	2) concerns the data	379	1	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this record as predecisional. This record is an internal team memorandum representing the status of actions relating to preliminary research. This documents does not purport to represent a final agency. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.

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31	The record is an internal NASA e-mail sent to the members of ARC's aviation security research team; subject: <i>Notes from Wed Aviation Security Meeting</i> , dated June 20, 2002. This record contains the meeting minutes from the June 19, 2002 meeting. The record provides the status on ongoing actions, including the NWA data.	2) concerns the data	380-381	2	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this record as predecisional. This record is an internal team memorandum representing the status of actions relating to preliminary research. This documents does not purport to represent a final agency. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
32	The record is a two-page summary of the June 12, 2002, Aviation Security Meeting. The summary provides the status of ongoing actions related to the research, including the status of parsing the NWA data.	2) concerns the data	382-383	2	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this record as predecisional. This record is an internal team memorandum representing the status of actions relating to preliminary research. This documents does not purport to represent a final agency. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
33	An e-mail dated October 9, 2002, between one of the ARC researchers and one of the research team's contractors working with the NWA data, Subject: <i>Re: Aviations Security</i> . The e-mail provides clarifying language to be included in a summary of the project for the new team leader.	2) concerns/ describes the data	384-385	2	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this record as predecisional. This record represents an exchange between researchers drafting a description of the program for the new team leader. It does not represent a final agency decision or the final version of the documents. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
34	An e-mail dated October, 11, 2002, subject: <i>Northwest Airlines Passenger Records are Now Readable by NASA Software</i> . The e-mail is from the senior researcher to the NASA employee/contractor team complimenting them for the hard work that produced a software system to read the NWA data faster than the current commercial system and discusses preliminary results of the software's application.	2) concerns/ describes the data	386-387	2	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this record as predecisional. This record addresses a particular milestone associated with the data mining research and the preliminary results of using the software to read a portion of the NWA data. The e-mail does not represent final research results or agency decisions. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.

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35	An internal NASA e-mail among the research team dated October 11, 2002, subject: <i>Draft Aviation Security Report</i> , with attachment titled <i>Version 2 Report Oct 22 2002</i> . Attachment is Document No. 26. The e-mail forwards the attachment for comment by the NASA research team. The e-mail addresses the intent of the report and its length. The attachment is a draft of the document that would be finalized in December 2002 (Document No. 18).	E-mail: 2) concerns the data. Attachment: 2) concerns/ describes the data.	388-398	11	NASA released the e-mail. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the attachment as predecisional. See Document No. 26 above.
36	An e-mail dated December 6, 2002, among the ARC researcher team, subject: <i>Now with Attachment: Final opportunity to Comment on Automated Threat Assessment and Security Reporting Accomplishments to Date</i> . Attachment is titled Version 3. Report.doc, and is Document No. 24 above. The e-mail addresses the intent of the report and its length. The attachment is a draft of the document that would be finalized in December 2002 (Document No. 18).	E-mail: 2) concerns the data. Attachment: 2) concerns/ describes the data.)	399-413	15	NASA released the e-mail. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the attachment as predecisional. See Document No. 26 above.
37	An e-mail between NASA researchers dated December 10, 2002, subject: <i>Re: PNR statistics</i> . This record contains 2 e-mails. The first is between ARC researchers providing statistical characteristics of NWA passenger data for one day. This statistical information is recommended for inclusion in the current version of the report, <i>Automated Threat Assessment and Security Reporting Accomplishments to Date</i> (Document No. 18). The second e-mail agrees.	2) concerns/ describes the data	414-415	2	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this record as predecisional, because it is an internal exchange between ARC researchers as to what to include in an interim report. It does not purport to be a final draft of a documents or a final agency decision. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information, and hindering the deliberative process used to finalize reports and documents for management.

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38	This is the second e-mail among ARC researchers, dated December 10, 2002, subject: <i>re: PNR statistics</i> . This record contains 2 e-mails. The first e-mail was in Documents No. 37, providing statistical characteristics of NWA passenger data for one day. The second e-mail requests additional information.	2) concerns/ describes the data	416-418	3	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this record as predecisional, because it is an internal exchange between ARC researchers as to what to include in an interim report. It does not purport to be a final draft of a documents or a final agency decision. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information, and hinder the deliberative process used to finalize reports and documents for management.
39	This is the third e-mail among ARC researchers between the ARC researchers, dated December 10, 2002, subject: <i>re: PNR statistics</i> . This record contains 3 e-mails. The first e-mail was in Documents No. 37, providing statistical characteristics of NWA passenger data for one day. The second e-mail responds to the inquiry in Document No. 37. The third e-mail consists of the researcher's impressions of the information and possible future efforts.	2) concerns/ describes the data	419-423	4	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this record as predecisional, because it is an internal exchange between ARC researchers as to what to include in an interim report. It does not purport to be a final draft of a documents or a final agency decision. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information, and hinder the deliberative process used to finalize reports and documents for management.
40	An e-mail between ARC researchers, dated January 17, 2003, subject: <i>Re: FY03 DM for AvSec Proposal Draft 2</i> . The e-mail forwards an attachment titled <i>Data Mining thh.doc</i> . The attachment is Document No. 7, <i>FY03 Data Mining for Aviation Security Proposal</i> .	2) concerns/ describes the data.	424-427	4	NASA released the e-mail. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the attachment as predecisional, because the report is a draft and is not a final agency record. See Document No.7.
41	An e-mail between ARC researchers, dated February 4, 2003, subject: <i>Northwest Airlines Data</i> . Internal NASA e-mail noting that funding has been discontinued for the research and speculating as to whether any other program could use the data.	2) concerns/ describes the data	428	1	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this information as predecisional. This internal ARC e-mail provides a researchers opinion and speculates on other uses for the NWA data. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information, and serve to stifle future communications among researchers.
42	An e-mail dated February 7, 2003, subject: <i>Re: Northwest Airlines Data</i> . This record contains 3 e-mails. The first e-mail is Document No. 41. The second e-mail identifies other possible uses for the NWA data. The third concurs.	2) concerns/ the data	429-430	2	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this information as predecisional. This internal ARC e-mail provides a researchers opinion and speculates on other uses for the NWA data. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information, and serve to stifle future communications among researchers.

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<p>43 An e-mail dated July 15, 2002, subject: Re: Release of NW Data. E-mail from an ARC researcher to NWA, requesting permission to release NWA data to a non-NASA researcher and to allow IBM to run tests on the text portion of the NWA data.</p>	<p>2) concerns the data</p>	<p>431-432</p>	<p>2</p>	<p>Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this information as predecisional. NWA held a consultative role in NASA's aviation security-related research as evidenced by NWA's voluntary provision of passenger data to NASA at NASA's request, as well as the provision of expertise upon request. As a consultant, correspondence between NASA and NWA is considered intra-agency. This email represents NASA's request for permission to allow other entities use portions of the NWA-provided data to assist in furthering this preliminary research effort. This e-mail does not purport to be a final decision or represent a final agency decision relating to this research. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information, and hinder preliminary discussions concerning possible cooperation.</p>
<p>44 An e-mail dated July 12, 2002, subject: <i>Release of NW Data</i> is an exchange between NASA and NWA officials. This record contains 3 emails. The first email is Document No. 43. The second is NWA acknowledgement, and the third email is NASA's acknowledgement.</p>	<p>2) concerns the data</p>	<p>433-434</p>	<p>2</p>	<p>Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this information as predecisional. NWA held a consultative role in NASA's aviation security-related research as evidenced by NWA's voluntary provision of passenger data to NASA at NASA's request, as well as the provision of expertise upon request. As a consultant, correspondence between NASA and NWA is considered intra-agency. This email represents NASA's request for permission to allow other entities use portions of the NWA-provided data to assist in furthering this preliminary research effort. This e-mail does not purport to be a final decision or represent a final agency decision relating to this research. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.</p>
<p>45 An e-mail dated December 27, 2001. Subject: <i>Re: NWA Data</i>. This record contains 5 e-mails. These e-mails are discussions among the NASA researchers and their contractors assigning tasks for reading the data and discussing its content. Also includes personal e-mail accounts of a NASA researcher.</p>	<p>2) concerns/ describes the data</p>	<p>435-438</p>	<p>4</p>	<p>NASA released the first, second, fourth and fifth e-mails. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the third e-mail as predecisional. This information is a proposed allegation of resources and does not reflect a final agency action as to how the team's efforts were assigned. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information, and serve to stifle future communications among researchers. Pursuant to 5 U.S.C. § 552(b)(6), NASA withholds the personal e-mail account of a ARC researcher. Release of this personal information would be an unwarranted invasion in the employee's privacy and would expose this personal information to the general public where it could be adversely exploited. Additionally, the researcher's privacy interest in this information outweighs the public interest in its release as the e-mail address does not shed light onto the actions and decisions of the federal government.</p>

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46	An e-mail dated December 18, 2001. Subject: <i>Re: Data asap?</i> Internal NASA e-mail among the ARC researchers. This record contains 3 e-mails discussing coordination for the January Aviation Security Workshop. E-mail discusses the letter requesting NWA data and Data from Lexis/Nexis.	2) concerns the data	439-441	3	NASA released the text of the e-mail, with the exception of one line that addresses the intended goal of the demonstrations. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the redacted information as predecisional because the information discusses goals for future testing. As such it does not represent a final agency decision. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
47	An e-mail dated December 27, 2001. Subject: <i>RE: NWA Data</i> . E-mail among NASA researchers (including personal accounts) and their contractors concerning the NWA data's content and their efforts to read the data.	2) concerns/ describes the data	442-445	4	NASA released the e-mail and redacts personal email account address. Pursuant to 5 U.S.C. § 552(b)(6), NASA withholds the personal e-mail account of a ARC researcher. Release of this personal information would be an unwarranted invasion in the employee's privacy and would expose this personal information to the general public where it could be adversely exploited. Additionally, the researcher's privacy interest in this information outweighs the public interest in its release as the e-mail address does not shed light onto the actions and decisions of the federal government.
48	An e-mail dated December 28, 2001. Subject: <i>Re: NWA data</i> . This record contains 2 e-mails among the ARC researchers. The first e-mail tasks researchers to begin working with the NWA data. The second summarizes actions taken; specifies preliminary results and recommends specific actions. The third email notes request for assistance has been made to NWA.	2) concerns/ describes the data	446-448	3	NASA released the text of the first and third e-mails and redacts specific information from the second. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds information in the second email relating to future actions as predecisional. This was an internal exchange between ARC researchers and recommends future actions. It does not purport to be a final draft of a documents or a final agency decision. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Pursuant to 5 U.S.C. § 552(b)(6), NASA withholds the personal e-mail account of an ARC researcher. Release of this personal information would be an unwarranted invasion in the employee's privacy and would expose this personal information to the general public where it could be adversely exploited. Additionally, the researcher's privacy interest in this information outweighs the public interest in its release, as the e-mail address does not shed light onto the actions and decisions of the federal government.
49	An e-mail dated January 9, 2002. Subject: <i>RE: Northwest Airlines</i> . This record contains 2 e-mails. The first e-mail from NASA researcher to NASA manager asking assistance in getting NWA support in reading the data. The second acknowledges receipt.	2) concerns/ describes the data	449-450	2	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this record as predecisional. The record is a request to management requesting assistance in securing NWA support for the preliminary research. It is an internal agency correspondence and does not purport to be a final agency decision. Release of such internal interim discussions could stifle future communications between subordinates and seniors by making the employees involved reluctant to make such proposals and recommendations in the future and thereby denying decision-makers access to necessary information.

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50	An e-mail dated January 10, 2001. Subject: <i>RE: Northwest Airlines</i> . This record contains 2 e-mails among the ARC researchers. The first e-mail is Documents No. 49. The second e-mail is from another NASA manager proposing a specific course of action.	2) concerns/ describes the data	451-452	2	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this record as predecisional. The record is a request to management requesting assistance in securing NWA support for the preliminary research. It is an internal agency correspondence and does not purport to be a final agency decision. Release of such internal interim discussions could stifle future communications between subordinates and seniors by making the employees involved reluctant to make such proposals and recommendations in the future and thereby denying decision-makers access to necessary information.
51	An e-mail dated January 11, 2002, 2001. Subject: <i>RE: Northwest Airlines</i> . This record contains 3 e-mails among the ARC researchers. The first e-mail is Documents No. 49. The second e-mail is the second e-mail in Documents No. 50. The third is from the ARC researcher informing management about the impact of the delays on the preliminary research.	2) concerns/ describes the data	453-454	2	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this record as predecisional. The record is a request to management requesting assistance in securing NWA support for the preliminary research. It is an internal agency correspondence and does not purport to be a final agency decision. Release of such internal interim discussions could stifle future communications between subordinates and seniors by making the employees involved reluctant to make such proposals and recommendations in the future and thereby denying decision-makers access to necessary information.
52	An e-mail among the ARC researchers dated January 15, 2002. Subject: <i>Fwd: Gritbot and Lexis/Nexis data</i> . This record consists of 3 e-mails. The original message discusses how the various software is to be used to identify anomalies that could suggest potential terrorists. This e-mail is not responsive to the FOIA request. The second e-mail discusses the status of the software being run on the NWA data and that current computer capability could not support an entire day of records. The final e-mail discusses capability to support a request to develop specific files, recommending specific courses of action. These latter two e-mails contain some information responsive to FOIA request.	2) concerns/ describes the data	455-457	3	NASA released the first two e-mails and portions of the third. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds portions of the third e-mail as predecisional. Specifically, withheld are those recommendations that do not reflect a final agency decision or action. Release of such internal interim discussions could stifle future communications between researchers by making those involved reluctant to make such proposals and recommendations in the future and thereby denying decision-makers access to necessary information.

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53	An e-mail dated January 31, 2002, Subject: <i>RE: data mining panel Feb. 8</i> . This record consists of 2 internal NASA e-mails. The original e-mail recommends what will be forwarded to the data mining panel coordinator [from Office of Science and Technology Policy (OSTP)] and asks for comments. This e-mail is not responsive to FOIA Request. The second e-mail provides an updated CV to be forwarded to the panel coordinator and recommends describing NASA's efforts with NWA.	2) concerns the data	458-463	5	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the record in its entirety as predecisional. Record is an internal agency e-mail coordinating NASA response to a panel but does not reflect the final agency decision. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
54	An e-mail dated February 13, 2002. Subject: <i>RE: Data mining Panel</i> . This record contains 2 e-mails between ARC researchers and representatives of OSTP discussing the government's requirements to conduct data mining and how NASA ARC could do to assist.	2) concerns the data	464-465	2	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the record in its entirety as predecisional. Record is an internal agency e-mail coordinating NASA response to a panel but does not reflect the final agency decision. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
55	An e-mail dated February 19, 2002. Subject: <i>NWA data</i> . Internal NASA e-mail (including personal e-mail accounts) recounting conversation with NWA rep that NWA will bring 3 months worth of passenger data. Final paragraph addresses the research team's next steps.	2) concerns the data	466-467	2	NASA released the unredacted text of this e-mail. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the final paragraph of the record because it addresses the team's next steps and does not reflect the Agency's final decision or action. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Pursuant to 5 U.S.C. § 552(b)(6), NASA withholds the personal e-mail account of a ARC researcher. Release of this personal information would be an unwarranted invasion in the employee's privacy and would expose this personal information to the general public where it could be adversely exploited. Additionally, the researcher's privacy interest in this information outweighs the public interest in its release as the e-mail address does not shed light onto the actions and decisions of the federal government.
56	An e-mail dated February 19, 2002. Subject: <i>RE: NWA data</i> . This record consists of 2 e-mails. The first is listed as Document No. 55. The second e-mail provides initial thoughts on how team should begin to address 3 months worth of NWA data.	2) concerns the data	468-469	2	NASA released the unredacted text of this e-mail. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the redacted text of the e-mails as predecisional. NASA withholds the first and second paragraph of the second e-mail because they recommend possible courses of action and do not reflect a final agency decision. See Document No. 55 for the first e-mail. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.

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57	An e-mail among NASA researchers dated February 19, 2002. Subject: <i>RE: NWA data</i> . This record consists of 3 e-mails. The first is listed as Document No. 55. The second e-mail is the second e-mail of Documents No. 56. The third e-mail agrees with some of the suggestions made in previous e-mails and estimates how many CD's make up 3 months worth of data.	2) concerns the data	470-471	2	NASA released the unredacted text of this e-mail. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the first paragraph of the third e-mail as predecisional because they discuss possible courses of action and do not reflect a final agency decision. Release of such internal interim discussions could harm the government by confusing the public as to what actions were ultimately taken. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds portions of the second and third e-mails as predecisional. See Document Nos. 55 and 56.
58	An e-mail among NASA researchers dated March 4, 2002. Subject: <i>NWA PNR Data</i> . NASA researcher who had flown on NWA during the period of time covered by the information provided by NWA, opens his personal record to gain a better understanding of the information contained in the records. In this e-mail, he describes the content of the record and its fields.	2) concerns/ describes the data	472-473	2	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the record as predecisional. The e-mail describes the researcher's first impressions on accessing the data and how to establish a usable database. It does not reflect a final agency decision or action. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
59	An e-mail among ARC researchers dated March 4, 2002. Subject: <i>RE: NWA PNR Data</i> . This is an internal NASA, 2-e-mail record. The first e-mail is Document No. 58. The second e-mail provides another researcher's impression of the record.	2) concerns/ describes the data	474-475	2	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the record as predecisional. The e-mail describes the researchers' first impressions on accessing the data and how to establish a usable database. It does not reflect a final agency decision or action. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
60	An e-mail among ARC researchers dated March 4, 2002. Subject: <i>RE: NWA PNR Data</i> . This internal NASA record contains 2 e-mails. The first e-mail is Document No. 58. The second e-mail provides a third researcher's impression of the record.	2) concerns/ describes the data	476-477	2	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the record as predecisional. The e-mail describes the researchers' first impressions on accessing the data and how to establish a usable database. It does not reflect a final agency decision or action. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.

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61	An e-mail among ARC researchers dated March 4, 2002. Subject: <i>RE: NWA PNR Data</i> . This is an internal NASA, 2-e-mail record. The first e-mail is Document No. 58. The second e-mail is included in Document 52. The third e-mail continues exchange on initial impressions of the data.	2) concerns/ describes the data	478-480	3	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the record as predecisional. The e-mail describes the researchers' first impressions on accessing the data and how to establish a usable database. It does not reflect a final agency decision or action. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
62	An e-mail among ARC researchers dated March 4, 2002. Subject: <i>RE: NWA PNR Data</i> . This internal NASA has 2- e-mails. Both e-mails discuss the contents of the passenger information and deciphering the codes.	2) concerns/ describes the data	481-482	2	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the record as predecisional. The e-mail describes the researchers' first impressions on accessing the data and how to establish a usable database. It does not reflect a final agency decision or action. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
63	An e-mail among ARC researchers dated March 4, 2002. Subject: <i>RE: NWA PNR Data</i> . This is an internal NASA e-mail record. Both e-mails discuss the PNR information and deciphering the codes.	2) concerns/ describes the data	483	1	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the record as predecisional. The e-mail describes the researchers' first impressions on accessing the data and how to establish a usable database. It does not reflect a final agency decision or action. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
64	An e-mail dated March 7, 2002. Subject: <i>NASA-TSA Introduction</i> . This record contains 4 e-mails between NASA, TSA and NWA. The fourth e-mail is responsive to the FOIA request. The first 2 discuss FAA's Broad Area Announcement concerning CAPPS2. The third e-mail is the NWA rep introducing himself and NASA to TSA reps. The fourth e-mail is NASA's introduction to TSA discussing NASA's aviation security research. In this e-mail, it is mentioned that NASA is using NWA data for research.	2) concerns/ describes the data	484-491	8	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds these e-mails as predecisional. The e-mails represent preliminary discussions between NASA and TSA concerning possible areas of collaboration, of which the NWA data could be a part. However, these e-mails do not purport to represent final decisions concerning cooperation between NASA and TSA. It does not reflect a final agency decision or action. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.

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65	An e-mail dated March 8, 2002. Subject: <i>NASA-TSA Introduction</i> . This record contains 4 e-mails between NASA, TSA and NWA. The fourth e-mail is responsive to the FOIA request. The first 3 e-mails discuss TSA's interest in working with the security reps with airlines and understanding the NASA-NWA relationship. The fourth e-mail is responsive to the FOIA request as it is the NWA's rep introduction to TSA and addresses how the NASA-NWA began working together.	2 Concerns and Describes	492-498	7	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds these e-mails as predecisional. The e-mails represent preliminary discussions between NASA and TSA concerning possible areas of collaboration, of which the NWA data could be a part. However, these e-mails do not purport to represent final decisions concerning cooperation between NASA and TSA. It does not reflect a final agency decision or action. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
66	An e-mail dated March 14, 2002. Subject: RE: <i>NASAARC Participation in CAPPS2</i> . This record contains 2 e-mails between NASA and TSA. The second e-mail is responsive to the FOIA request in that it the researchers state they have 90-days of passenger data and describe their current research. The e-mails represent an exchange between NASA and TSA discussing areas of cooperation between the two government agencies on a new passenger screening system. Proposal is pending final consideration by TSA.	2 Concerns and Describes	499-506	8	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds these e-mails as predecisional. The e-mails represent preliminary discussions between NASA and TSA concerning possible areas of collaboration, of which the NWA data could be a part. However, these e-mails do not purport to represent final decisions concerning cooperation between NASA and TSA. It does not reflect a final agency decision or action. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Some of the information addresses perceived weaknesses in airport security. Release of this predecisional, deliberative information could be harmful to the government because individuals wishing to exploit these airport weaknesses could adversely use it.
67	An e-mail dated December 21, 2001. Subject: <i>Re: NWA Data</i> . This record contains 4 e-mails. These e-mails were part of Document No. 45 and are discussions among the NASA researchers and their contractors assigning tasks for reading the data and discussing its content. Also includes personal e-mail accounts of NASA researcher.	2 Concerns	507-509	3	NASA released the first, second, fourth and fifth e-mails. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the third e-mail as predecisional. This information is a proposed allegation of resources and does not reflect a final agency action as to how the team's efforts were assigned. As such, it does not represent a final agency decision. It does not reflect a final agency decision or action. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Pursuant to 5 U.S.C. § 552(b)(6), NASA withholds the personal e-mail account of an ARC researcher. Release of this personal information would be an unwarranted invasion in the employee's privacy and would expose this personal information to the general public where it could be adversely exploited. Additionally, the researcher's privacy interest in this information outweighs the public interest in its release as the e-mail address does not shed light onto the actions and decisions of the federal government.

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68	An e-mail dated January 21, 2002. Subject: Re: FW: PNR data. This record contains 5 e-mails. The first 3 e-mails are between NASA and NWA requesting permission to provide results of initial analysis of NWA-provided data at an intergovernmental workshop. The fifth e-mail between ARC and NWA. The fourth and fifth e-mails forward the conversation to the lead researcher.	2) concerns/ describes the data	510-512	3	NASA released the first, second, fourth and fifth e-mails. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the third e-mail as predecisional. This information provides preliminary results of research that will be discussed at the NASA/FAA Aviation Security R & D Workshop in January 2003. These results do not represent final research results. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
69	An e-mail among ARC researchers dated March 04, 2004. Subject: RE: NWA PNR data. This record has 3 e-mails. The first 3 e-mails are found in Document No. 61 and provide the researchers' initial impression of the contents of the passenger data. In the fourth e-mail another researcher gives permission to look at his personal PNR from the NWA data.	2 Concerns	513-515	3	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the record as predecisional. The e-mail describes the researchers' first impressions on accessing the data and how to establish a usable database. It does not reflect a final agency decision or action. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
70	An e-mail dated March 19, 2002. Subject: Data mining for aviation security. NASA e-mail requesting opinion of IBM representative as to the type of IBM product that can handle the NWA data.	2) concerns the data	516-517	2	Pursuant to 5 U.S.C. § 552(b)(4) and based upon IBM's objection, NASA withholds names and associated data concerning IBM employees and products contained in the records under Exemption 4 and Exemption 6. IBM objects to the release of their employees' identities under Exemption 4 because it considers its employees to be corporate assets and guards the identity of its employees in order to prevent competitors from raiding them. Secondly, IBM objects to the release of the product information contained in the e-mails under Exemption 4 because the e-mails discuss the application of specific IBM products to NASA's specific requirements. IBM notes that such information would undermine IBM's competitive advantage by allowing competitors access to ideas and design details that they would not have had or would have had to research and develop on their own. Pursuant to 5 U.S.C.(b)(5) NASA withholds this record as predecisional. The e-mail is an exchange between NASA and IBM researchers about the possible use of the IBM equipment to assist in the data mining research. These records do not reflect a final agency action or decision. In this instance, the experience and expertise of IBM researchers was sought. Because IBM did not directly benefit from this exchange of information and the discussions did not result in cooperative research or financial gain, IBM is considered to have maintained a consultative role. As such, this document remains an internal government record the release of which could harm the government's ability to gain expertise and advise from corporate researchers in the future. Pursuant to 5 U.S.C. § 552(b)(6), NASA withholds the names of IBM researchers and associated personal information contained in the records as being an unwarranted invasion of personal privacy.

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71	<p>An e-mail among NASA researchers, dated October 8, 2002. Subject: <i>Re: Aviation Security</i>. This record contains 2 internal NASA e-mails. The first e-mail responds to the new team leader's request for information on the security research, of which the data mining using the NWA data was a part. The information includes the current status of the research and identifies future efforts. The lead's response indicates that the program is being rescoped. Attachments are titled Integrated APITAS Plan.doc (See Document No. 11); FYO2 data mining report.doc (See Document No.21) and Melton draft.doc. The Melton.doc is an outline of a document describing the Aviation Security Lab. It contains paragraph assignments and an overview of the lab.</p>	2) concerns the data	518-527	10	<p>Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the e-mail and the Melton draft.doc attachment as predecisional. The e-mail contains an exchange between a researcher and new team leader to include discussions as to next steps of the program. The attachment is the preliminary draft of a document describing the Aviation Security Lab. Neither represents a final agency decision or action. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. Additionally, NASA withholds the attachments titled APITAS Plan.doc and FYO2 data mining report.doc as predecisional. See Document Nos. 11 and 21.</p>
72	<p>An e-mail among NASA researchers, dated October 7, 2002. Subject: <i>Re: Aviation Security</i>. This record contains 3 internal NASA e-mails. The first e-mail identifies the new team lead for the Aviation Security IT component and asks for information about the Aviation Security Lab and its research. The second e-mail provides that information. The third asks for additional insights on the work performed and explains that he has been asked to refocus the work. Second e-mail contains one attachment titled: ITASc milestones. The milestones identify programmatic goals.</p>	2) concerns the data	528-534	7	<p>Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the e-mail and attachment as predecisional. The e-mail contains an exchange between a researcher and new team leader to include discussions as to next steps of the program and the attachment is provided for his information. It does not reflect a final agency decision or action. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.</p>

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73	An e-mail among the ARC researchers and their managers, dated September 29, 2003, 2002. Subject: <i>Fwd: Northwest Airlines Data</i> . This record contains 4 internal NASA e-mails. The first e-mail is Document No.41, recommending the return of the NWA data and speculating other uses for the NWA data. The second e-mail is dated September 28, 2003 and forwards a news story that NASA requested NWA data. The third and fourth e-mails discuss NASA's efforts to prepare a response to media inquiries. Attachments are titled Final Aviations Security Report.doc (See Document No.18) and September 27, 2003.doc The September 27, 2003, attachment provides the draft responses that were provided to public affairs for incorporation into a response to query (RTQ) to management.	2) concerns the data	535-538	4	NASA released the second e-mail. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the third and fourth e-mails and the September 27, 2003.doc as being predecisional. These e-mails are exchanged between team members in an effort to inform management of what had been provided to the ARC public affairs officer. As such, the correspondence does not reflect the agency's final response or actions. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information, and serve to stifle communications among subordinates and seniors. NASA withholds the first e-mail as predecisional. See Document No.41. NASA withholds Document No. 18 as predecisional. See Document No.18.
74	An e-mail dated September 26, 2003. Subject: <i>Re: Research using Northwest Airlines PNR Data</i> . This record contains 2 e-mails. The first e-mail is from public affairs requesting specific information concerning the research. The second forwards a copy of the Automated Passenger Threat Assessment and Security Reporting System Accomplishments to Date, dated December 13, 2002 (Document No.18) and notes that he is preparing the requested information.	2) concerns the data	539-540	2	NASA released the second e-mail. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the first e-mail as predecisional. The e-mail requests specific information from the ARC researcher for public affairs in drafting a response to query (RTQ) to assist in responding to the media. As such, the correspondence does not reflect the agency's final response or actions. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information. NASA withholds Document No. 18 as predecisional. See Documents No. 18.
75	An e-mail among ARC employees, dated September 27, 2003. Subject: <i>Fwd: research using Northwest Airlines PNR Data</i> . This record contains 3 internal NASA e-mails. The first is from public affairs, dated September 26, 2003, requesting information concerning the research and was the first e-mail in Document No. 74, above. The second and third, dated September 27, 2003, forward a draft response to public affairs for review. The second e-mail forwards attachment September 27, 2003.doc (the attachment in Document No 73).	2) concerns the data	541-546	5	NASA released the second and third e-mail. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the first e-mail as predecisional. See Document No 74. NASA withholds the attachment, September 27, 2003. doc as predecisional. See Document No 73.

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76	An e-mail dated September 29, 2003. Subject; <i>re: NWA RTQ Final Technical Review</i> . Single internal NASA e-mail providing an edit version of the response to query to public affairs. Attachment is the edited version. Attachment is titled: <i>RTQ NWA 9-29th</i> . The attachment is the draft RTQ provided for review and concurrence.	2) concerns/ describes the data	547-552	6	NASA released the e-mail. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the attachment as predecisional. The e-mail forwards public affairs' draft response to the ARC researchers for review and concurrence. As such, the correspondence does not reflect the agency's final response or actions. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
77	An e-mail among ARC employees, dated September 29, 2003. Subject; <i>NWA RTQ Final Technical Review</i> . Single internal NASA e-mail providing the draft version of the response to query for technical review. Attachment is the draft version of a response to query, titled: <i>RTQ NWA 9-29.doc</i> . The attachment is the revised draft of the RTQ provided for review and concurrence.	2) concerns/ describes the data	553-557	5	NASA released the e-mail. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the attachment as predecisional. The e-mail forwards public affairs' draft response to the ARC researchers for review and concurrence. As such, the correspondence does not reflect the agency's final response or actions. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
78	An undated e-mail among ARC researchers. Subject: <i>Contacting various groups</i> . This internal NASA e-mail explains the next steps to be taken to further the project and is intended to make sure this work is not duplicating other on-going efforts.	2) concerns the data	558	1	Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds this record as predecisional. The e-mail begins a discussion as to the next steps in the research project and does not represent the agency's final decision or action. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
79	An e-mail dated September 29, 2003. Subject: <i>re: research using the Northwest Airlines PNR Data</i> . This record has 2 e-mails. The first is dated September 26, 2003, from public affairs is contained in Document No. 75. In the second, the researcher confirms that the NWA data has been returned to NWA.	2) concerns the data	559	1	NASA releases the second e-mail. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the first e-mail as predecisional. See Document No.75, above.

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80	An e-mail among ARC researchers dated September 28, 2003. Subject: <i>Re: Northwest Airlines Data</i> . This record consists of 3 internal NASA e-mails. The first is dated February 4, 2003, and is Document No.41 speculating on other uses for the NWA data. The second identifies a news story about NASA requesting the NWA data; Document No.73 The third confirms that the data was returned to NWA.	2) concerns the data	560-561	2	NASA released the second and third e-mails. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the first e-mail as predecisional. See Document No.41, above.
81	An e-mail among ARC employees, dated September 29, 2003. Subject: <i>Heads up on an article and issue to be aware of</i> . This record contains 4 e-mails. The first e-mail is Document No.41, the second and third mails are contained at Document No. 80. The last e-mail provides a summary of the research and informs all that we are no longer doing this type of research and have returned the data to Northwest.	2) concerns the data	562-566	5	NASA released the second, third and fourth e-mails. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the first e-mail as predecisional, see Document No.41, above.
82	An e-mail dated September 26, 2003. Subject: <i>Re: Research using Northwest Airlines PNR Data</i> . This record contains 2 e-mails. The first e-mail is from the public affairs requesting information concerning the research (Document No. 69). The second e-mail forwards the researcher's response.	2) concerns/ describes the data	567-571	5	NASA releases the second e-mail. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the first e-mail as predecisional. See Document No.75, above.
83	An e-mail dated September 27, 2003. Subject: <i>Re: Research using Northwest Airlines PNR Data</i> . This record contains a follow-on to Document No.77, above. It is a 2 e-mail record. The first e-mail is from the public affairs requesting information concerning the research (Document No. 69) and the researcher's response is attached.	2) concerns/ describes the data	572-576	5	NASA releases the second e-mail. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds the first e-mail and attachment as predecisional. See Document No.75, above.

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84	An e-mail among the ARC researchers dated December 22, 2002. Subject: <i>RE: Aviation Security Report</i> . This record contains 2 e-mails. The first is from the team lead saying that there is no funding for aviation security program. The response is from the lead researcher discussing the advantages of the NWA database for future government research.	2) concerns/ describes the data	5771	1	NASA released the first e-mail and released portions of the second. Pursuant to 5 U.S.C. § 552(b)(5), NASA withholds portions of the first paragraph of the second e-mail as predecisional. The e-mail is an exchange between the researcher and team lead providing some ideas as to possible additional uses for the data. As such it does not reflect the agency's final decision or action. If such preliminary information were to be released and subjected to public scrutiny before it could be debated and refined, the employees involved would be reluctant to make such proposals, or at least commit them into writing, thereby denying decision-makers access to important information.
85	An e-mail dated June 14, 2002. Subject: Re: Discussion with IBM Research. This NASA record contains of 4 e-mails between NASA and IBM.	2) concerns the data	578-582	5	Pursuant to 5 U.S.C. § 552(b)(4) and based upon IBM's objection, NASA withholds names and associated data concerning IBM employees and products contained in the records under Exemption 4 and Exemption 6. IBM objects to the release of their employees' identities under Exemption 4 because it considers its employees to be corporate assets and guards the identity of its employees in order to prevent competitors from raiding them. Secondly, IBM objects to the release of the product information contained in the e-mails under Exemption 4 because the e-mails discuss the application of specific IBM products to NASA's specific requirements. IBM notes that such information would undermine IBM's competitive advantage by allowing competitors access to ideas and design details that they would not have had or would have had to research and develop on their own. Pursuant to 5 U.S.C.(b)(5) NASA withholds this record as predecisional. The e-mail is an exchange between NASA and IBM researchers about the possible use of the IBM equipment to assist in the data mining research. These records do not reflect a final agency action or decision. In this instance, the experience and expertise of IBM researchers was sought. Because IBM did not directly benefit from this exchange of information and the discussions did not result in cooperative research or financial gain, IBM is considered to have maintained a consultative role. As such, this document remains an internal government record the release of which could harm the government's ability to gain expertise and advise from corporate researchers in the future. Pursuant to 5 U.S.C. § 552(b)(6), NASA withholds the names of IBM researchers and associated personal information contained in the records as being an unwarranted invasion of personal privacy.
86	An e-mail dated December 27, 2001. Subject: Thanks for the disks! NASA researcher email from personal account to NWA, cc'ing NASA researchers and NASA contracts, requesting telecon with NWA to answer technical questions.	1) correspondence btw NASA and NWA	583	1	NASA released the text of the e-mail. Pursuant to 5 U.S.C. § 552(b)(6), NASA withholds the personal e-mail account of a ARC researcher. Release of this personal information would be an unwarranted invasion in the employee's privacy and would expose this personal information to the general public where it could be adversely exploited. Additionally, the researcher's privacy interest in this information outweighs the public interest in its release as the e-mail address does not shed light onto the actions and decisions of the federal government.