



**U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION**

Air Traffic Organization Policy

**ORDER  
JO 7210.630B**

**Effective Date:**  
November 1, 2011

**SUBJ:** Procedural Guidance for FAA Order JO 7210.3 following En Route Automation Modernization (ERAM) Implementation

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- 1. Purpose of This Order.** This order provides air traffic procedural guidance to FAA Order JO 7210.3, Facility Operation and Administration related to the waterfall implementation and use of En Route Automation Modernization (ERAM).
- 2. Audience.** This order is intended for all air traffic personnel at facilities that use ERAM for operational air traffic control services.
- 3. Where Can I Find This Order?** The order is available on the MyFAA employee Web site at [https://employees.faa.gov/tools\\_resources/orders\\_notices/](https://employees.faa.gov/tools_resources/orders_notices/) and on the air traffic publications Web site at [http://www.faa.gov/air\\_traffic/publications](http://www.faa.gov/air_traffic/publications).
- 4. Requirements.** Whenever ERAM is used operationally for air traffic control services, the applicable provisions of FAA JO 7210.3, Facility Operation and Administration, are superseded by the corresponding provisions contained in Appendix A of this order.
- 5. Explanation of Policy Changes.** This order revises the content contained in JO 7210.630A. Paragraph 8-2-9. ERAM HOLD INFORMATION FACILITY DIRECTIVE REQUIREMENTS restores the ability of air traffic managers to authorize exceptions to JO 7110.311A, paragraph 5-14-9, ERAM Computer Entry Hold Information. The material is covered as part of ERAM Air Traffic Control Specialist (ATCS) transition training.
- 6. Action.** Air traffic managers shall ensure that the provisions of this order are briefed to operations managers, front-line managers, controllers-in-charge and air traffic controllers prior to the first use of ERAM for operational air traffic control services.
- 7. Distribution.** This order is distributed to Air Traffic Organization (ATO) En Route Safety and Operations Support, Mike Monroney Aeronautical Center, En Route and Oceanic Operations Service Areas, and all air route traffic control centers (ARTCCs), except Anchorage ARTCC.
- 8. Background.** During the transition period from HOST to ERAM, the provisions of this order will apply only during those times that a facility is using ERAM for operational air traffic control services. For those facilities that have not yet transitioned to ERAM, or for those ERAM facilities that for any reason, are not using ERAM operationally for air traffic control services, the existing provisions of FAAO 7210.3 must apply. When all Host facilities have transitioned permanently to ERAM, the provisions of this order must be incorporated into a future change to FAA JO 7210.3.

**9. Safety Management System.** Appropriate safety management documentation, in accordance with FAAO 1100.161, Air Traffic Safety Oversight, ATO Order 1000.37, Air Traffic Organization Safety Management System, and the ATO Safety Management System Manual, has been completed in support of the notice that preceded this order. Therefore, no further SRM analysis is warranted.



Heather Hemdal  
Director, En Route and Oceanic Safety  
And Operations Support

**APPENDIX A. ERAM Changes to FAA Order 7210.3**

**HOST**

1-2-5. ABBREVIATIONS

As used in this order, the following abbreviations have the meanings indicated: (See TBL 1-2-1.)

New

New

**ERAM**

1-2-5. ABBREVIATIONS

As used in this order, the following abbreviations have the meanings indicated: (See TBL 1-2-1.)

**EDST . . . . .En Route Decision Support Tools**

**ERAM . . . . .En Route Automation Modernization**

No further changes to paragraph

**HOST**

2-2-6. SIGN IN/OUT AND ON/OFF PROCEDURES

The following is applicable to all FAA air traffic facilities, but does not apply to FAA contract facilities.

Cru-X/ART is the official time and attendance system for both signing in/out for a shift and on and off positions, not paper logs nor Common ARTS/HOST/ NTML/M1FC or other Agency or local programs. Facilities may use Common ARTS/ HOST/NTML/M1FC to sign on positions for position preference settings; however, these systems/programs shall not be used for official time and attendance nor position times. Duplicate paper logs for sign in/out of the shift and on and off positions shall not be utilized during normal daily operations.

**ERAM**

2-2-6. SIGN IN/OUT AND ON/OFF PROCEDURES

No Change

Cru-X/ART is the official time and attendance system for both signing in/out for a shift and on and off positions, not paper logs nor Common ARTS/HOST/**ERAM**/ NTML/M1FC or other Agency or local programs. Facilities may use Common ARTS/ HOST/**ERAM**/NTML/M1FC to sign on positions for position preference settings; however, these systems/programs shall not be used for official time and attendance nor position times. Duplicate paper logs for sign in/out of the shift and on and off positions shall not be utilized during normal daily operations.

No further changes to paragraph

**HOST**

3-1-1. BASIC EQUIPMENT

a. The basic operating equipment for ARTCCs consist of flight progress boards, radar displays, communications, automation, and, where applicable, URET equipment. At facilities utilizing Ocean21, additional equipment consists of Air Traffic Situation Displays and Auxiliary Displays. This equipment is arranged in individual units called sectors and laid out in accordance with master plans maintained in the En Route and Oceanic Service Area offices. Air traffic managers may recommend changes to these plans.

**ERAM**

3-1-1. BASIC EQUIPMENT

a. The basic operating equipment for ARTCCs consists of flight progress boards, radar displays, communications, **and** automation equipment. At facilities utilizing Ocean21, additional equipment consists of Air Traffic Situation Displays and Auxiliary Displays. This equipment is arranged in individual units called sectors and laid out in accordance with master plans maintained in the En Route and Oceanic Service Area offices. Air traffic managers may recommend changes to these plans.

No further changes to paragraph

**APPENDIX A. ERAM Changes to FAA Order 7210.3**

**HOST**

3-1-2. PERIODIC MAINTENANCE

Title thru c

d. Upon facility acceptance of any URET system, that system becomes a component of the air traffic system for the purposes of requests from Technical Operations personnel for approval to shut down that system for periodic maintenance.

e. Notification of any planned or unplanned outage of URET shall be coordinated following the guidelines in Chapter 8, NAS En Route Automation, and guidelines developed and maintained by URET facilities.

**ERAM**

3-1-2. PERIODIC MAINTENANCE

No Change

Delete

Delete

No further changes to paragraph

**HOST**

3-7-7. PREARRANGED COORDINATION

Title thru a

b. When P-ACPs are established, a facility directive shall be published. The directive shall include, as a minimum:

1. Requirement that the NAS Stage A(en route) or ATTS (terminal) systems are fully operational.

New

New

**ERAM**

3-7-7. PREARRANGED COORDINATION

No Change

No Change

1. Requirement that the **following** are fully operational:

**a. Terminal - ATTS**

**b. En route - RDP/SDP, FDP, and safety alert (CA, MCI, E-MSAW) processing.**

No further changes to paragraph

**HOST**

Chapter 6. En Route Operations and Services

Section 7. User Request Evaluation Tool (URET)

**ERAM**

Chapter 6. En Route Operations and Services

Section 7. User Request Evaluation Tool (URET) and En Route Decision Support Tools (EDST)

No further changes to paragraph

**HOST**

6-7-1. GENERAL

URET is an en route decision support tool that is used by the sector team in performing its strategic planning responsibilities. URET uses flight plan data, forecast winds, aircraft performance

**ERAM**

6-7-1. GENERAL

URET is an en route decision support tool that is used by the sector team in performing its strategic planning responsibilities. URET uses flight plan data, forecast winds, aircraft performance

**APPENDIX A. ERAM Changes to FAA Order 7210.3**

characteristics, and track data to derive expected aircraft trajectories, and to predict conflicts between aircraft and between aircraft and special use or designated airspace. It also provides trial planning and enhanced flight data management capabilities.

characteristics, and track data to derive expected aircraft trajectories, and to predict conflicts between aircraft and between aircraft and special use or designated airspace. It also provides trial planning and enhanced flight data management capabilities. **Under ERAM the URET capabilities constitute the initial En Route decision support tools.**

No further changes to paragraph

**HOST****6-7-2. FRONT-LINE MANAGER-IN-CHARGE RESPONSIBILITIES**

- a. Where authorized, perform URET data entries to keep the activation status of designated URET Airspace Configuration Elements current.
- b. Ensure that the URET Airspace Status Display information accurately reflects current Special Activity Airspace (SAA) status.
- c. Perform coordination and designated actions in the event of a URET outage or degradation, in accordance with the requirements of this order and as designated by facility directive.

**ERAM****6-7-2. FRONT-LINE MANAGER-IN-CHARGE RESPONSIBILITIES**

- a. Where authorized, perform data entries to keep the activation status of designated Airspace Configuration Elements current.
- b. Ensure that the Airspace Status Display information accurately reflects current Special Activity Airspace (SAA) status.
- c. Perform coordination and designated actions in the event of **an** outage or degradation, in accordance with the requirements of this order and as designated by facility directive.

No further changes to paragraph

**HOST****6-7-3. OPERATIONS MANAGER-IN-CHARGE RESPONSIBILITIES**

- a. Ensure that the URET Airspace Status Display information accurately reflects current SAA status.
- b. Perform coordination and designated actions in the event of a URET outage or degradation, in accordance with the requirements of this order and as designated by facility directive.

**ERAM****6-7-3. OPERATIONS MANAGER-IN-CHARGE RESPONSIBILITIES**

- a. Ensure that the Airspace Status Display information accurately reflects current SAA status.
- b. Perform coordination and designated actions in the event of **an** outage or degradation, in accordance with the requirements of this order and as designated by facility directive.

No further changes to paragraph

**HOST****6-7-4. FACILITY MANAGER RESPONSIBILITIES**

- a. Ensure LOAs, SOPs, and Sector Position Binders are current to support URET.
  1. Facility managers shall consider URET functions and limitations in reviewing all current LOAs and/or negotiating all future LOAs.

**ERAM****6-7-4. FACILITY MANAGER RESPONSIBILITIES**

- a. Ensure LOAs, SOPs, and Sector Position Binders are current to support **URET/EDST**.
  1. Facility managers shall consider **URET/EDST** functions and limitations in reviewing all current LOAs and/or negotiating all future LOAs.

**APPENDIX A. ERAM Changes to FAA Order 7210.3**

2. The following items should be considered when reviewing LOAs:

2(a)

(b) Special Use Airspace (SUA) use and status.

2(c) thru 2(f)

b. Ensure all facility directives are current to support URET. Directives shall include, but are not limited to:

1. URET Outages.
2. URET Airspace Configuration Elements Data Entry.

b3

4. Sectors authorized to use URET IAFDOF Manual Mode.

5. Sectors authorized to use the URET Drop Track Delete function and the conditions under which it may be used.

6. Conditions under which a controller can deactivate an adapted URET restriction.

b7

8. Facility standard for annotating status of manual coordination at URET sectors where automated coordination with an external facility is not available (e.g., international facility, VFR tower). Facility directives may require either the use of the URET Coordination Menu or flight progress strips, and shall define a standard for each URET sector.

9. Facility standard for annotating hold instructions and reporting delay information at URET sectors. Facility directives may require either the use of the URET Hold Annotations, flight progress strips, or a facility-approved worksheet, and shall define a standard for each URET sector.

No Change

No change

(b) Special **Activity** Airspace (**SAA**) use and status.

No Change

b. Ensure all facility directives are current to support **URET/EDST**. Directives shall include, but are not limited to:

1. Outages.
2. Airspace Configuration Elements Data Entry.

No Change

4. Sectors authorized to use IAFDOF Manual Mode.

5. Sectors authorized to use the Drop Track Delete function and the conditions under which it may be used.

6. Conditions under which a controller can deactivate an adapted restriction.

No Change

8. Facility standard for annotating status of manual coordination at sectors where automated coordination with an external facility is not available (e.g., international facility, VFR tower). Facility directives may require either the use of the Coordination Menu or flight progress strips, and shall define a standard for each sector.

9. Facility standard for annotating hold instructions and reporting delay information at sectors. Facility directives may require either the use of **the ERAM Hold Data Menu/Hold View, the URET Hold Annotations Menu, a flight progress strip, or a facility approved worksheet,** and shall define a standard for each sector.

No further changes to paragraph

**HOST**

6-7-5. URET AIRSPACE CONFIGURATION ELEMENTS

a. URET Airspace Configuration Elements are:

a1 thru a2

3. URET adapted restrictions.

b. For each adapted airspace configuration

**ERAM**

6-7-5. AIRSPACE CONFIGURATION ELEMENTS

a. Airspace Configuration Elements are:

No Change

3. **A**dapted restrictions.

b. For each **URET/EDST adapted** airspace

**APPENDIX A. ERAM Changes to FAA Order 7210.3**

element adapted in URET, facility directives shall designate at least one primary position and one secondary position to be responsible to update the status (e.g., active/inactive) and/or the activation schedule for that element.

**NOTE-**

1. Accurate conflict probe results require timely updates to the current activation status and/or the projected activation schedule for airspace configuration elements.
2. Designating a position to have secondary responsibility for each URET Airspace Configuration Element is essential to maintain the capability to perform updates in the event that equipment at the primary position is temporarily out of service.
3. Positions to be considered for primary or secondary designation include a specified sector, TMU, or operations supervisor.

c. ATC positions and personnel authorized by facility directive shall perform automation entries in URET in a timely manner to update the status of SAAs, restrictions, and ASF.

d. For a URET airspace configuration element that is associated with a particular sector or sectors and whose status is highly dynamic in nature:

1. The designated sector(s) should be assigned the primary responsibility to keep the URET status current.
2. The TMU or the appropriate operations supervisor should be assigned the secondary responsibility to keep URET status current.

configuration element, facility directives shall designate at least one primary position and one secondary position to be responsible to update the status (e.g., active/inactive) and/or the activation schedule for that element.

**NOTE-**

1. Accurate conflict probe results require timely updates to the current activation status and/or the projected activation schedule for airspace configuration elements.
2. Designating a position to have secondary responsibility for each URET/EDST Airspace Configuration Element is essential to maintain the capability to perform updates in the event that equipment at the primary position is temporarily out of service.
3. Positions to be considered for primary or secondary designation include a specified sector, TMU, or operations supervisor.

c. ATC positions and personnel authorized by facility directive shall perform automation entries in a timely manner to update the status of SAAs, restrictions, and ASF.

d. For a URET/EDST airspace configuration element that is associated with a particular sector or sectors and whose status is highly dynamic in nature:

1. The designated sector(s) should be assigned the primary responsibility to keep the URET/EDST status current.
2. The TMU or the appropriate operations supervisor should be assigned the secondary responsibility to keep URET/EDST status current.

No further changes to paragraph

**HOST**

**6-7-6. STANDARD USE OF AUTOMATED FLIGHT DATA MANAGEMENT**

Use of the checkbox flight data management feature of URET shall be standardized in accordance with individual facility directives.

**ERAM**

**6-7-6. STANDARD USE OF AUTOMATED FLIGHT DATA MANAGEMENT**

Use of the checkbox flight data management feature of URET/EDST shall be standardized in accordance with individual facility directives.

No further changes to paragraph

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### HOST

#### 6-7-7. URET OUTAGES

a. In accordance with Chapter 8, NAS En Route Automation, and the requirements in this chapter, URET facilities shall develop and maintain procedures for transition to and from URET operations.

**NOTE-**

*The back-up for URET is flight progress strips.*

b. Planned Outages.

b1 thru b2

3. The Operations Manager shall notify the neighboring URET facilities of a planned URET outage no less than 1 hour in advance.

b4 thru b6

c. Unplanned URET Outages.

1. A facility directive shall include a checklist detailing actions to be taken and roles and responsibilities during an unplanned URET outage.

2. When an unplanned URET outage occurs, sectors shall post and maintain flight progress strips in accordance with FAAO 7110.65, Air Traffic Control, requirements for a non-URET environment, except as otherwise permitted by facility directive.

**NOTE-**

1. *A full transition to strips may not be necessary based on the duration of the outage. Outages of short duration may allow continued use of the URET data while strips are prepared for use in the event that the outage continues.*

2. *A "snapshot" of URET flight data at the time of the outage will be available to the sector team. Although the data will not be updated and will become stale, it may be used to assist the sector team while reestablishing the support of strips.*

3. Any failure recovery action that will result in the automatic clearing of the URET data on a position's display shall be approved by the Operations Manager.

### ERAM

#### 6-7-7. OUTAGES

a. In accordance with Chapter 8, NAS En Route Automation, and the requirements in this chapter, facilities shall develop and maintain procedures for transition to and from URET/EDST operations.

**NOTE-**

*The back-up for electronic flight data is flight progress strips.*

b. Planned URET/EDST Outages.

No Change

3. The Operations Manager shall notify the adjacent URET facilities of a planned URET outage no less than 1 hour in advance.

No Change

c. Unplanned Outages.

1. A facility directive shall include a checklist detailing actions to be taken and roles and responsibilities during an unplanned outage.

2. When an unplanned URET/EDST outage occurs, sectors shall post and maintain flight progress strips in accordance with FAAO 7110.65, Air Traffic Control, requirements for a non-URET/EDST environment, except as otherwise permitted by facility directive.

**NOTE-**

1. *A full transition to strips may not be necessary based on the duration of the outage. Outages of short duration may allow continued use of the URET/EDST data while strips are prepared for use in the event that the outage continues.*

2. *A "snapshot" of URET/EDST flight data at the time of the outage will be available to the sector team. Although the data will not be updated and will become stale, it may be used to assist the sector team while reestablishing the support of strips.*

3. Any failure recovery action that will result in the automatic clearing of the URET/EDST data on a position's display shall be approved by the Operations Manager.



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| <p>d. Degraded Conditions.</p> <p>1. In the event that URET <u>is operational, but alert</u> data may be affected due to an associated equipment malfunction, the National Operations Manager (NOM) shall notify the Operations Manager who shall in turn notify Operations Supervisors. Each Operations Supervisor shall ensure that each sector team in their area of specialization is cognizant of the potential for degradation.</p> | <p>No Change</p> <p>1. In the event that URET/<u>EDST</u> data may be affected due to an associated equipment malfunction, the National Operations Manager (NOM) shall notify the Operations Manager who shall in turn notify Operations Supervisors. Each Operations Supervisor shall ensure that each sector team in their area of specialization is cognizant of the potential for degradation.</p> |
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No further changes to paragraph

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| <p style="text-align: center;"><b><u>HOST</u></b></p> <p>6-7-8. TRANSITION AND TRAINING PLANNING</p> <p>The Facility air traffic manager shall ensure that detailed facility plans are prepared defining:</p> <p>a. Training schedules of Certified Professional Controllers, Operations Supervisors, Operations Managers, Traffic Management Coordinators, and Traffic Management Supervisors.</p> <p>b. Training schedules of developmental controllers based on national training directives.</p> | <p style="text-align: center;"><b><u>ERAM</u></b></p> <p>6-7-8. <b><u>RESERVED</u></b></p> <p style="text-align: center;">Delete</p> <p style="text-align: center;">Delete</p> <p style="text-align: center;">Delete</p> |
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No further changes to paragraph

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| <p style="text-align: center;"><b><u>HOST</u></b></p> <p>6-7-9. RESTRICTIONS INVENTORY AND EVALUATION</p> <p>a. Facilities shall identify responsibilities and establish procedures for the creation and maintenance of a facility restriction inventory <u>once URET is fully operational</u>. Facility plans should include identification and cataloging each air traffic restriction by type, purpose, and frequency/duration in effect.</p> <p>b. Facilities shall create a plan and conduct ongoing evaluations on the need to relax or remove restrictions not warranted during URET operations. This shall include URET impact on ability to relax/remove restrictions and identification of dependencies between ability to remove restrictions and automation capabilities/limitations.</p> | <p style="text-align: center;"><b><u>ERAM</u></b></p> <p>6-7-9. RESTRICTIONS INVENTORY AND EVALUATION</p> <p>a. Facilities shall identify responsibilities and establish procedures for the creation and maintenance of a facility restriction inventory. Facility plans should include identification and cataloging each air traffic restriction by type, purpose, and frequency/duration in effect.</p> <p>b. Facilities shall create a plan and conduct ongoing evaluations on the need to relax or remove restrictions not warranted during <u>URET/EDST</u> operations. This shall include <u>URET/EDST</u> impact on ability to relax/remove restrictions and identification of dependencies between ability to remove restrictions and automation capabilities/limitations.</p> |
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c. Submit annually to the Vice President of En Route and Oceanic Services, an Evaluation Report on facility restriction relaxation/removal related to URET.

c. Submit annually to the Vice President of En Route and Oceanic Services, an Evaluation Report on facility restriction relaxation/removal related to URET/**EDST**.

No further changes to paragraph

**HOST****6-7-10. TRAFFIC COUNTS AND DELAY REPORTING**

- a. Automated counts of traffic activities are the preferred methods during use of URET.
- b. Adherence to all applicable delay reporting directives shall continue while URET is operational.
- c. Delay information, shall be recorded on available flight progress strips, on facility approved forms, or via the automated URET delay reporting features for aircraft in hold. Facility directives shall detail the procedures for collecting and reporting this information to the ATCSCC.

**ERAM****6-7-10. TRAFFIC COUNTS AND DELAY REPORTING**

- a. Automated counts of traffic activities are the preferred methods.
- b. Adherence to all applicable delay reporting directives shall continue while URET/**EDST** is operational.
- c. Delay information, shall be recorded on available flight progress strips, on facility approved forms, or via the automated delay reporting features for aircraft in hold. Facility directives shall detail the procedures for collecting and reporting this information to the ATCSCC.

No further changes to paragraph

**HOST****6-7-11. COMPUTER DATA RETENTION**

Follow the guidelines detailed in this order to retain URET recorded data.

**ERAM****6-7-11. COMPUTER DATA RETENTION**

Follow the guidelines detailed in this order to retain **URET/EDST** recorded data.

No further changes to paragraph

**HOST****6-7-12. WAIVER TO INTERIM ALTITUDE REQUIREMENTS**

- a. If, at any URET facility, a facility directive has been issued to waive the mandatory computer entry of interim altitudes, controllers and supervisors in any affected area and adjacent areas or facilities shall be informed of the resulting potential for misleading URET alert data.
- b. Each URET facility should strongly consider the benefits of URET in evaluating any current or future waiver for data entry of interim altitudes. URET accuracy in assigning alert priorities for surrounding sectors, including those in neighboring URET facilities, is dependent upon the subject sector's entry/update of interim altitudes.

**ERAM****6-7-12. WAIVER TO INTERIM ALTITUDE REQUIREMENTS**

- a. If a facility directive has been issued to waive the mandatory computer entry of interim altitudes, controllers and supervisors in any affected area and adjacent areas or facilities shall be informed of the resulting potential for misleading **conflict probe** alert data.
- b. Each facility should strongly consider the benefits of **conflict probe** in evaluating any current or future waiver for data entry of interim altitudes. **Conflict probe** accuracy in assigning alert priorities for surrounding sectors, including those in **adjacent URET/ERAM** facilities, is dependent upon the subject sector's entry/update of

**APPENDIX A. ERAM Changes to FAA Order 7210.3**

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|  | interim altitudes. |
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No further changes to paragraph

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| <b><u>HOST</u></b>   |
| 6-7-13. TRANSFER OF POSITION RESPONSIBILITY  |
| Each <u>URET</u> facility shall ensure that pertinent URET information is integrated into any Position Relief briefing list, whether manual or electronic. |

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| <b><u>ERAM</u></b>   |
| 6-7-13. TRANSFER OF POSITION RESPONSIBILITY  |
| Each facility shall ensure that pertinent <u>URET/EDST</u> information is integrated into any Position Relief briefing list, whether manual or electronic. |

No further changes to paragraph

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| <b><u>HOST</u></b>  |
| 8-2-1. <u>SINGLE SITE COVERAGE STAGE A OPERATIONS</u>   |
| Facilities may adapt <u>all sort boxes within 40 miles of the antenna to that site as preferred and with the single site indicator set</u> to permit the use of <u>3 miles radar separation</u> as defined in FAAO 7110.65, Air Traffic Control, subpara 5-5-4b3, <u>Minima</u> . <u>This adaptation may be used provided:</u>  |
| <ul style="list-style-type: none"> <li>a. A significant operational advantage will be obtained <u>using single site coverage</u>. Consideration <u>must</u> be given to such aspects as terminal interface, radar reliability, etc.; <u>and</u></li> <li>b. Facility directives are issued to:                             <ul style="list-style-type: none"> <li>1. Define areas <u>within 40 NM of any radar site in which the adaptation has been modified</u>.</li> <li>2. Permit 3 NM separation in the <u>modified</u> area.</li> <li>3. Accommodate local procedural changes.</li> </ul> </li> </ul> |
| New   |
| New   |
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| <b><u>ERAM</u></b>  |
| 8-2-1. <b><u>THREE MILE OPERATIONS</u></b>  |
| Facilities may adapt <u>airspace</u> to permit the use of 3 <b><u>NM</u></b> separation as defined in FAAO 7110.65, Air Traffic Control, subpara 5-5-4b3, <b><u>or subpara 5-5-4d</u></b> , provided <b><u>all of the following are met:</u></b>  |
| <ul style="list-style-type: none"> <li>a. A significant operational advantage will be obtained. Consideration <b><u>shall</u></b> be given to such aspects as terminal interface, radar reliability, etc.;</li> <li>b. Facility directives are issued to:                             <ul style="list-style-type: none"> <li>1. Define <b><u>the 3 NM separation</u></b> area.</li> <li>2. Permit 3 NM separation in the <b><u>defined</u></b> area.</li> </ul> </li> </ul>   |
| No Change   |
| <ul style="list-style-type: none"> <li>c. <b><u>ERAM:</u></b> <ul style="list-style-type: none"> <li>1. <b><u>Within 40 NM of the preferred sensor.</u></b></li> <li>2. <b><u>The 3 NM separation area is displayable on the video map.</u></b></li> <li>3. <b><u>The aircraft alert volume is adapted for 3 NM separation.</u></b></li> </ul> </li> <li>d. <b><u>Non-ERAM: All sort boxes within 40 miles of the antenna are adapted to that site as preferred and with the single site indicator set to permit the use of 3 NM radar separation.</u></b></li> </ul> |

No further changes to paragraph

**APPENDIX A. ERAM Changes to FAA Order 7210.3****HOST****8-2-2. ADAPTED ALTIMETER SETTINGS**

Ensure a current altimeter setting from the adapted reporting station for each radar sort box or geographic area is input into the center's computer. When an altimeter setting for an adapted reporting station cannot be obtained, enter the altimeter setting from the appropriate alternate reporting station.

**ERAM****8-2-2. ADAPTED ALTIMETER SETTINGS**

Ensure a current altimeter setting from the adapted reporting station for each radar sort box/**cell** or geographic area is input into the center's computer. When an altimeter setting for an adapted reporting station cannot be obtained, enter the altimeter setting from the appropriate alternate reporting station.

No further changes to paragraph

**HOST****8-2-4. CONFLICT ALERT FUNCTION PARAMETERS**

a. Use the nominal value of parameters specified in NAS Configuration Management Documents for the CA function unless a waiver to adjust parameter value is received from the En Route and Oceanic Safety and Operation Support Office.

b. Facility air traffic managers are authorized to inhibit the display of CA at specified sectors.

**ERAM****8-2-4. CONFLICT ALERT FUNCTION PARAMETERS**

a. Use the **approved CA preset values as defined in the ERAM Site Adaptation Manual (SAM) unless otherwise approved by the En Route and Oceanic Safety and Operations Support Office.**

b. Facility air traffic managers are authorized to inhibit the display of CA at specified sectors **and within ERAM AAVs.**

No further changes to paragraph

**HOST****8-2-5. PARAMETERS**

a. Use the nominal value of parameters specified in the NAS Configuration Management Document for the MCI Alert function, except the base altitude parameter, unless a waiver to adjust parameter value is received from the En Route and Oceanic Safety and Operations Support Office.

**ERAM****8-2-5. PARAMETERS**

a. Use the **approved MCI CA preset values as defined in the ERAM Site Adaptation Manual (SAM) unless otherwise approved by the En Route and Oceanic Safety and Operations Support Office.**

No further changes to paragraph

**HOST****8-2-6. E-MSAW ADAPTATION**

Ensure that all internal airspace is adapted for E-MSAW processing. Ensure that the altitude information adapted in the polygons agrees with the MIA sector charts and that the automation is adapted in accordance with the appropriate NAS Management Documents.

**ERAM****8-2-6. E-MSAW ADAPTATION**

Ensure that all internal airspace is adapted for E-MSAW processing. Ensure that the **internal** altitude information adapted in the polygons agrees with the MIA sector charts **and is in accordance with the ERAM Site Adaptation Manual.**

No further changes to paragraph

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**HOST**

8-2-7. WAIVER TO INTERIM ALTITUDE REQUIREMENTS

Where sector conditions; e.g., heavy traffic or sector complexity, preclude meeting the requirements of FAAO 7110.65, Air Traffic Control, subpara 5-14-3b, Computer Entry of Assigned Altitude, ARTCC air traffic managers may authorize the deletion of the requirements if an operational advantage is gained. A facility directive shall be issued with instructions governing permissible procedures. It shall contain:

- a. Procedures/sectors where the waiver applies.
- b. Coordination procedures if required.
- c. Specific instructions to input a reported altitude for non-Mode C-equipped aircraft when it will operate at an altitude before proceeding to the assigned altitude.

**ERAM**

8-2-7. WAIVER TO INTERIM ALTITUDE REQUIREMENTS

Where sector conditions; e.g., heavy traffic or sector complexity, preclude meeting the requirements of FAAO 7110.65, Air Traffic Control, subpara 5-14-3b, Computer Entry of Assigned Altitude, ARTCC air traffic managers may authorize the deletion of the requirements if an operational advantage is gained. A facility directive **or LOA** shall be **established which** contains:

- a. Sectors where the waiver applies.
- b. Procedures, including any required **coordination.**

No Change

No further changes to paragraph

**HOST**

New Paragraph

New

New

New

New

New

**ERAM**

**8-2-8. REQUIREMENTS FOR ERAM DATA BLOCK CHANGES WITHOUT COORDINATION**

**Where sector conditions offer a significant operational advantage, air traffic managers may authorize exceptions to data block change coordination required by FAAO 7110.65, Air Traffic Control, para 5-4-5, Transferring Controller Handoff, and FAAO 7110.65, Air Traffic Control, para 5-4-6, Receiving Controller Handoff. The facility directive or LOA shall contain, as a minimum:**

- a. **Sectors where the directive or LOA applies.**
- b. **Specific situations where omission of coordination is permitted.**

**EXAMPLE-**  
**LOA specifies the aircraft will be descending to FL 290 and changes in interim altitude are authorized after handoff to get to FL 290.**

**NOTE-**  
**Consideration needs to be given to the ability of all sector team members to readily discriminate the**

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|     |   |
|-----|---|
| New | <u>indicator in the B4 field under varied conditions, such as font size and brightness, situation display orientation, and lighting. There is a significant operational difference between accepting a handoff with:</u>        |
| New | <p><u>a. an "up arrow" in which aircraft will not climb beyond displayed assigned altitude, and</u></p> <p><u>b. a "T" (interim) altitude where the aircraft may climb beyond the currently displayed interim altitude.</u></p> |

No further changes to paragraph

| <u>HOST</u>   | <u>ERAM</u>  |
|---------------|--|
| New Paragraph | <p><b><u>8-2-9. ERAM HOLD INFORMATION FACILITY DIRECTIVE REQUIREMENTS</u></b></p> <p><b><u>Where sector conditions offer a significant operational advantage, air traffic managers may authorize exceptions to FAAO 7110.65, Air Traffic Control, para 5-14-9, ERAM Computer Entry Hold Information. The facility directive shall contain, as a minimum:</u></b></p> <ol style="list-style-type: none"> <li><b><u>1. Sectors where the directive applies.</u></b></li> <li><b><u>2. Required coordination procedures.</u></b></li> <li><b><u>3. Specific instructions for reporting delays.</u></b></li> </ol> |
| New           |  |
| New           |  |
| New           |  |
| <u>HOST</u>   | <u>ERAM</u>  |
| New Paragraph | <p><b><u>8-2-10. ERAM SPECIAL ACTIVITY AIRSPACE (SAA) ADAPTATION</u></b></p> <p><b><u>Facilities shall ensure that every SAA within their Aircraft Problem Detection (APD) Area is adapted for SAA scheduling and alert processing.</u></b></p>  |
| New           |  |

No further changes to paragraph

| <u>HOST</u> | <u>ERAM</u>  |
|-------------|--|
| New         | <p><b><u>8-2-11. ERAM Holding Pattern Adaptation</u></b></p> <p><b><u>Ensure published holding patterns on Standard Terminal Arrival Routes (STARs) are adapted to automatically populate the Hold Data Menu.</u></b></p> <p><b><u>NOTE-</u></b><br/> <b><u>Adapting holding patterns will reduce controller workload by automatically populating the Hold Data Menu. Therefore, facilities should consider adapting all frequently used holding patterns.</u></b></p> |
| New         |  |
| New         |  |

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No further changes to paragraph

| <u>HOST</u>   |
|---------------|
| New Paragraph |
| New           |
| New           |

| <u>ERAM</u>   |
|---|
| <b><u>8-2-12. ERAM MASTER TOOLBAR MAP BUTTON LABEL</u></b>  |
| <b><u>Ensure the adapted label of the GEOMAP button matches the name of the GEOMAP selected at the sector. The map button label may be displayed on two lines and may include spaces to improve label readability.</u></b>                                |
| <i><u>NOTE-</u></i><br><i><u>Since the GEOMAP is saved with the preference set, displaying the map name on the GEOMAP button label provides a visual indication to the controller when a GEOMAP changes as a result of invoking a preference set.</u></i> |

No further changes to paragraph

| <u>HOST</u>   |
|---|
| 8-3-3. SELECTED ALTITUDE LIMITS   |
| Title thru a  |
| b. 2,200 feet above the highest and below the lowest flight level of the sector where 2,000 feet vertical separation is applicable.   |
| <i><u>NOTE-</u></i><br><i>1. The data block, for purposes of this paragraph, must contain the <u>beacon code and mode C altitude</u> at a minimum.</i><br><i>2. Exception to these requirements may be authorized for specific altitudes in certain ARTCC sectors if defined in appropriate facility directives and approved by the respective service area operations directorate.</i> |

| <u>ERAM</u>   |
|---|
| 8-3-3. SELECTED ALTITUDE LIMITS   |
| No Change   |
| No Change   |
| <i><u>NOTE-</u></i><br><i>1. The data block, for purposes of this paragraph, must contain the <u>mode C altitude, and call sign or beacon code</u>, at a minimum.</i> |
| No Change   |

No further changes to paragraph

| <u>HOST</u>   |
|---|
| 17-9-6. ATCSCC PROCEDURES   |
| a thru d  |
| e. Transmit EDCTs to ARTCCs and linked system users.  |
| <i><u>NOTE-</u></i><br><i>A CT message is automatically transferred to the ARTCC's <u>HOST</u> computers by the ETMS and appears on flight progress strips as an EDCT. In the event of a communication failure between the ETMS and the NAS</i> |

| <u>ERAM</u>   |
|---|
| 17-9-6. ATCSCC PROCEDURES   |
| No Change   |
| No Change   |
| <i><u>NOTE-</u></i><br><i>A CT message is automatically transferred to the ARTCC's computers by the ETMS and appears on flight progress strips as an EDCT. In the event of a communication failure between the ETMS and the NAS</i> |

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*computer, the CT message can be manually entered by the ARTCC TMC with ATCSCC approval.*

*computer, the CT message can be manually entered by the ARTCC TMC with ATCSCC approval.*

No further changes to paragraph

**HOST**

## 17-9-8. TERMINAL PROCEDURES

Title thru b

c. Ensure that internal flight plans are entered into the HOST computer in order to receive an equitable delay.

**ERAM**

## 17-9-8. TERMINAL PROCEDURES

No Change

c. Ensure that internal flight plans are entered into the **HOST/ERAM** computer in order to receive an equitable delay.

No further changes to paragraph

**HOST**

## 17-15-4. COORDINATION PROCEDURES

a thru c1(b)

(c) When establishment, change, or deletion of a preferred route is proposed by a facility other than an ARTCC, the requesting facility shall coordinate with the host ARTCC. The host ARTCC shall assume responsibility as the originator.

**ERAM**

## 17-15-4. COORDINATION PROCEDURES

No Change

(c) When establishment, change, or deletion of a preferred route is proposed by a facility other than an ARTCC, the requesting facility shall coordinate with the **appropriate** ARTCC. **That** ARTCC shall assume responsibility as the originator.

No further changes to paragraph

**HOST**

## 17-17-4. RESPONSIBILITIES

a thru b

c. ARTCCs shall:

c1 thru c5

6. Ensure HOST Stereo Flight Plans used for CDRs and CDRs published in the operational database.

**ERAM**

## 17-17-4. RESPONSIBILITIES

No Change

c. ARTCCs shall:

No Change

6. Ensure **HOST/ERAM** Stereo Flight Plans used for CDRs and CDRs published in the operational database **are identical.**

No further changes to paragraph

**HOST**

## 17-17-5. CDR DATA FORMAT

a thru e1

2. No dots, dashes, asterisks, plus signs, or placeholders are to be included. While these elements may be used in the HOST environment, because most flight planning systems will not

**ERAM**

## 17-17-5. CDR DATA FORMAT

No Change

2. No dots, dashes, asterisks, plus signs, or placeholders are to be included **because** most flight planning systems will not accept them.



**APPENDIX A. ERAM Changes to FAA Order 7210.3**

accept them.

No further changes to paragraph

**HOST**

17-20-4. RESPONSIBILITIES

a thru d

e. Terminal Facilities shall coordinate with their host ARTCC for all matters pertaining to National Playbook.

**ERAM**

17-20-4. RESPONSIBILITIES

No Change

e. Terminal Facilities shall coordinate with **the appropriate** ARTCC for all matters pertaining to National Playbook.

No further changes to paragraph