

NWS REQUEST FOR CHANGE FORM

1. WSH TRACKING NUMBER 1A. REV LEVEL 2. DATE RECEIVED

PART A - COVER SHEET

This form is in three parts. Submitters must complete unshaded blocks in Part A, and as much of Part B and C as possible. If there is no specific required change date, enter 60 days from date submitted. Address questions to NWS Change Management at (301) 713-1373. Submit change requests to the NWSRC mailbox (External: NWSRC@noaa.gov).

3. ORIGINATOR OFFICE NWS/OST/MDL	4. SUBMITTING AUTHORITY Name: Rebecca Cosgrove Routing Code: W/OST22	5. COGNIZANT TECHNICAL INDIVIDUAL Name: Judy Ghirardelli Routing Code: W/OST21 Phone: (301) 713-0056 x 194	6. ORIGINATOR TRACKING NUMBER MDL2006-04	7. DATE SUBMITTED May 18, 2006
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8. SYSTEMS AFFECTED BY CHANGE <input type="checkbox"/> ASOS <input checked="" type="checkbox"/> AWIPS <input type="checkbox"/> CSSA <input type="checkbox"/> CRS <input checked="" type="checkbox"/> DATA PRODUCTS <input type="checkbox"/> EMWIN <input type="checkbox"/> NEXRAD <input type="checkbox"/> RRS <input type="checkbox"/> OTHER (specify)	9. ORD IDENTIFIER
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10. TITLE OF CHANGE
GFS-based Localized Aviation MOS Program (LAMP) guidance for the CONUS, Hawaii, Alaska, the Virgin Islands, and Puerto Rico (OSIP Task 05-059, in Stage 4 of OSIP)

11. CATEGORY OF CHANGE <input checked="" type="checkbox"/> RC <input type="checkbox"/> PECP <input type="checkbox"/> ECP	12. TYPE OF CHANGE <input type="checkbox"/> DOCUMENTATION ONLY <input type="checkbox"/> HARDWARE <input checked="" type="checkbox"/> SOFTWARE <input checked="" type="checkbox"/> DATA
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13. SITES AFFECTED
All

14. STATEMENT OF REQUIREMENT, PROBLEM, OR DEFICIENCY OF EXISTING SYSTEM
For NWS forecasters to produce accurate aviation forecast products, guidance is needed on an hourly basis covering the time period of the terminal aerodrome forecast (TAF) product. Localized Aviation MOS Program (LAMP) currently provides a product in AWIPS on a 3 hourly basis, but this product is based on the Model Output Statistics (MOS) from the Nested Grid Model (NGM), and does not cover the full TAF period of 24 hours. There is a science opportunity to update this product based on the new Global Forecast Systems (GFS) MOS, to provide the guidance on an hourly basis, and to provide guidance that covers the TAF period.

(Adapted from LAMP OSIP Stage 1 Statement of Need Document)

15. KNOWN OR PROPOSED SOLUTION
The proposed solution is to redevelop the LAMP system to update the more accurate and more timely GFS MOS guidance and run the LAMP system hourly out to 25 hours to cover the TAF period. The GFS model is more accurate than the NGM and archives from GFS exist at higher temporal and spatial resolution. LAMP will run centrally on the NOAA Central Computing System (NCCS) at the National Centers for Environmental Prediction (NCEP), and the official products will be disseminated centrally from NCEP using current methodologies. The older NGM MOS based LAMP will be removed from running within AWIPS. New GFS-LAMP guidance will be disseminated in ASCII, BUFR, and GRIB2 format. See http://www.nws.noaa.gov/mdl/gfslamp/docs/stations_info.shtml for the list of stations for which GFS-LAMP guidance is provided.

(Adapted from LAMP OSIP Stage 3 Business Case Analysis Document)

16. ALTERNATE SOLUTIONS
See Business Case Analysis Document for OSIP 05-059 for a discussion of alternative solutions. See <https://osip.nws.noaa.gov/osip/processDocsStatus.php> which requires NWS username First.Last and NWS login password. At this site, refer to OSIP Number 05-059

17. REQUIRED CHANGE DATE ASAP for testNCF July 25, 2006 for SBN transmission	18. RATIONALE FOR REQUIRED CHANGE DATE SEC needs sample data on the testNCF as soon as possible for testing for OB7.2 release. July 25, 2006 refers to the official SBN transmission date, which corresponds to 120 days of advance notice for new WMO headers. July 25, 2006 is stated in TIN 06-14	19. PRIORITY <input checked="" type="checkbox"/> ROUTINE <input type="checkbox"/> URGENT <input type="checkbox"/> EMERGENCY
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DRG/CCB/PMC/CMB DECISION

20. DECISION AUTHORITY AND IMPACT LEVEL	<input type="checkbox"/> PMC or NWS CMB DECISION REQUIRED <input type="checkbox"/> CCB LEVEL ONLY <input type="checkbox"/> FAST TRACK	<input type="checkbox"/> MAJOR CHANGE <input type="checkbox"/> MINOR CHANGE
21. CCB LEVEL DECISION	<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED	SIGNATURE
	<input type="checkbox"/> RECOMMEND APPROVAL <input type="checkbox"/> REFERRED TO OSIP	DATE SIGNED

FOR USE ONLY WHEN PMC or NWS CMB DECISION REQUIRED

22. PMC OR NWS CMB DECISION	<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED	SIGNATURE/DATE
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