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PNSWSH

Technical Implementation Notice 15-17 Amended
National Weather Service Headquarters Washington DC
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From: Terrance J. Clark
Director, Radar Operations Center

Subject: Amended: WSR-88D Software Build 17 Changes to be Deployed
September 2016

Amended to change the deployment date to September 2016.

The NEXRAD Program will conduct the Beta Test of the Radar Data Acquisition/Radar Product Generator (RDA/RPG) Build 17.0 in summer 2016, with full deployment beginning in September.

The content impacting external users includes:

The Archive III Status Product (ASP) frequency will be increased to once every 3 hours (00 Coordinated Universal Time (UTC), 03 UTC, 06 UTC, etc.).

Model data will be added to the Level II data stream. These data include environmental information used by the RPG, such as winds and the 0 and -20 degree Celsius heights. The bandwidth increase will be approximately 500 KBytes/hr.

The Hail Size Discrimination Algorithm (HSDA) will be implemented within the current Hydrometeor Classification (HCA) product. New categories of Large Hail and Giant Hail will be added to HCA. Site operators will have the capability to turn HSDA off or on. The product version number will be "1" if HCA is configured to provide hail sizes.

Additional adaptable parameters will be added to the numeric and alphanumeric output of the Storm Total Accumulation (171/STA) and Digital Storm Total Accumulation (172/DSA) products. More information on these adaptable parameters will be provided in the Build 17.0 draft Product Specification Interface Control Document (ICD).

Significant hardware changes will be included in Build 17.0, which will result in RDA Performance Data, Adaptation Data, and Alarm message changes. See the draft ICDs for more information:

<http://www.roc.noaa.gov/WSR88D/NewRadarTechnology/NewTechDefault.aspx>

Visit the Radar Operations Center website:

<http://www.roc.noaa.gov/wsr88d>

For questions or comments, please contact:

Jessica Schultz
NWS Radar Focal Point
Radar Operations Center
jessica.a.schultz@noaa.gov

National Technical Implementation Notices are online at:

<https://www.weather.gov/notification/archive>

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