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PNSWSH

PUBLIC INFORMATION STATEMENT... COMMENT REQUEST  
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC  
1015 AM EST FRI FEB 12 2010

TO: SUBSCRIBERS  
-FAMILY OF SERVICES  
-NOAA WEATHER WIRE SERVICE  
-EMERGENCY MANAGERS WEATHER INFORMATION NETWORK  
-NOAAPORT  
-OTHER USERS AND NWS EMPLOYEES

FROM: RICHARD J. VOGT  
DIRECTOR... WSR-88D RADAR OPERATIONS CENTER

SUBJECT: SOLICITING COMMENTS BY MARCH 19 2010 ON PLANS TO  
ADD DUAL POLARIZATION WSR-88D PRODUCTS TO SBN/NOAAPORT  
AND RPCCDS: EFFECTIVE WITH WSR-88D DUAL POLARIZATION  
*/NOVEMBER 2010 BETA TEST/*

NWS HAS DEVELOPED PROPOSED OPERATIONAL REQUIREMENTS TO DISTRIBUTE  
DUAL POLARIZATION WEATHER SURVEILLANCE RADAR-1988... DOPPLER  
*/WSR-88D/* PRODUCTS VIA SATELLITE BROADCAST NETWORK */SBN/...*  
NOAAPORT AND RADAR PRODUCT CENTRAL COLLECTION DISSEMINATION  
SERVICE */RPCCDS/*.

NWS IS REQUESTING COMMENTS THROUGH MARCH 19 2010 ON THE  
PROPOSED REQUIREMENTS AND IMPLEMENTATION PLAN. SEND COMMENTS TO:

[TIM.D.CRUM@NOAA.GOV](mailto:TIM.D.CRUM@NOAA.GOV)  
[MICHAEL.ISTOK@NOAA.GOV](mailto:MICHAEL.ISTOK@NOAA.GOV).

IF THE PROPOSED CHANGE IS APPROVED... WE ANTICIPATE IMPLEMENTATION  
IN THE NOVEMBER 2010 TIMEFRAME. TABLE 1 CONTAINS THE LIST OF DUAL  
POLARIZATION RADAR PRODUCTS PROPOSED TO BE DISTRIBUTED VIA THE  
RPCCDS AND SBN/NOAAPORT. THIS DISSEMINATION WILL BEGIN WITH BETA  
TESTING OF THE FIRST DUAL POLARIZATION WSR-88D SITE. OTHER BETA  
TEST SITES WILL BE ADDED AS THEY ARE MODIFIED. DURING THIS TEST  
PERIOD... NWS WILL EVALUATE COMMUNICATIONS LOADING FOR IMPACTS  
AND DECIDE WHETHER TO DISSEMINATE DUAL POLARIZATION PRODUCTS  
FROM ADDITIONAL SITES MODIFIED DURING FULL SCALE DEPLOYMENT.

TABLE 1: WMO HEADINGS FOR WSR-88D RADAR PRODUCT ADDITIONS

#	TTUSII	NNN	PRODUCT DESCRIPTION	DIRECTORY
1	SDUS8I	N0X	DIFFERENTIAL REFLECTIVITY 159/DZD 0.5DEG	DS.159X0
2	SDUS8I	NAX	DIFFERENTIAL REFLECTIVITY 159/DZD 0.9DEG	DS.159XA
3	SDUS8I	N1X	DIFFERENTIAL REFLECTIVITY 159/DZD 1.5DEG	DS.159X1
4	SDUS8I	NBX	DIFFERENTIAL REFLECTIVITY 159/DZD 1.8DEG	DS.159XB
5	SDUS8I	N2X	DIFFERENTIAL REFLECTIVITY 159/DZD 2.4DEG	DS.159X2
6	SDUS8I	N3X	DIFFERENTIAL REFLECTIVITY 159/DZD 3.4DEG	DS.159X3
7	SDUS8I	N0C	CORRELATION COEFFICIENT 161/DCC 0.5DEG	DS.161C0
8	SDUS8I	NAC	CORRELATION COEFFICIENT 161/DCC 0.9DEG	DS.161CA
9	SDUS8I	N1C	CORRELATION COEFFICIENT 161/DCC 1.5DEG	DS.161C1
10	SDUS8I	NBC	CORRELATION COEFFICIENT 161/DCC 1.8DEG	DS.161CB

11	SDUS8I	N2C	CORRELATION COEFFICIENT	161/DCC	2.4DEG	DS.161C2
12	SDUS8I	N3C	CORRELATION COEFFICIENT	161/DCC	3.4DEG	DS.161C3
13	SDUS8I	N0K	SPECIFIC DIFFERENTIAL PHASE	163/DKD	0.5DEG	DS.163K0
14	SDUS8I	NAK	SPECIFIC DIFFERENTIAL PHASE	163/DKD	0.9DEG	DS.163KA
15	SDUS8I	N1K	SPECIFIC DIFFERENTIAL PHASE	163/DKD	1.5DEG	DS.163K1
16	SDUS8I	NBK	SPECIFIC DIFFERENTIAL PHASE	163/DKD	1.8DEG	DS.163KB
17	SDUS8I	N2K	SPECIFIC DIFFERENTIAL PHASE	163/DKD	2.4DEG	DS.163K2
18	SDUS8I	N3K	SPECIFIC DIFFERENTIAL PHASE	163/DKD	3.4DEG	DS.163K3
19	SDUS8I	N0H	HYDROMETEOR CLASSIFICATION	165/DHC	0.5DEG	DS.165H0
20	SDUS8I	NAH	HYDROMETEOR CLASSIFICATION	165/DHC	0.9DEG	DS.165HA
21	SDUS8I	N1H	HYDROMETEOR CLASSIFICATION	165/DHC	1.5DEG	DS.165H1
22	SDUS8I	NBH	HYDROMETEOR CLASSIFICATION	165/DHC	1.8DEG	DS.165HB
23	SDUS8I	N2H	HYDROMETEOR CLASSIFICATION	165/DHC	2.4DEG	DS.165H2
24	SDUS8I	N3H	HYDROMETEOR CLASSIFICATION	165/DHC	3.4DEG	DS.165H3
25	SDUS8I	N0M	MELTING LAYER	166/ML	0.5DEG	DS.166M0
26	SDUS8I	NAM	MELTING LAYER	166/ML	0.9DEG	DS.166MA
27	SDUS8I	N1M	MELTING LAYER	166/ML	1.5DEG	DS.166M1
28	SDUS8I	NBM	MELTING LAYER	166/ML	1.8DEG	DS.166MB
29	SDUS8I	N2M	MELTING LAYER	166/ML	2.4DEG	DS.166M2
30	SDUS8I	N3M	MELTING LAYER	166/ML	3.4DEG	DS.166M3
31	SDUS8I	DPR	INSTANTANEOUS PRECIPITATION RATE	176/DPR		DS.176PR
32	SDUS8I	HHC	HYBRID SCAN HYDROMETEOR CLASSIFIC.	177/HHC		DS.177HH
33	SDUS8I	OHA	ONE HOUR ACCUMULATION	169/OHA		DS.169OH
34	SDUS8I	DAA	DIGITAL ACCUMULATION ARRAY	170/DAA		DS.170AA
35	SDUS3I	PTA	STORM TOTAL ACCUMULATION	171/STA		DS.171ST
36	SDUS8I	DTA	DIGITAL STORM TOTAL ACCUMULATION	172/DSA		DS.172DT
37	SDUS8I	DU3	3 HOUR ACCUMULATION	173/DUA		DS.173U1
38	SDUS8I	DU6	24 HOUR ACCUMULATION	173/DUA		DS.173U3
39	SDUS8I	DOD	DIGITAL ONE HOUR DIFFERENCE	175/DOD		DS.174OD
40	SDUS8I	DSD	DIGITAL STORM TOTAL DIFFERENCE	175/DSD		DS.175SD

IF THE ADDITION OF THESE PRODUCTS CAUSES AN OPERATIONAL IMPACT TO NOAAPORT... THE FALLBACK PLAN IS TO DISTRIBUTE DUAL POLARIZATION PRODUCTS ONLY VIA RPCCDS... WHICH WOULD BE DONE BY FILTERING SDUS8I PRODUCTS FROM THE NOAAPORT UPLINK. THIS FALLBACK PLAN REQUIRES EXCLUSIVE USE OF SDUS8I FOR DUAL POLARIZATION. CURRENTLY THE DIGITAL PRECIPITATION ARRAY PRODUCT /DPA/ HAS THE FOLLOWING HEADING: SDUS8I. CONSEQUENTLY THE PRODUCT IN TABLE 2 WILL BE CHANGED NATIONALLY TO SDUS5I BEFORE BEGINNING DISSEMINATION OF DUAL POLARIZATION PRODUCTS.

TABLE 2: REASSIGNED WMO HEADINGS FOR WSR-88D AND TDWR SPG PRODUCT

TTUSII	NNN	PRODUCT DESCRIPTION	DIRECTORY
SDUS5I	DPA	HOURLY DIGITAL PRECIPITATION ARRAY	81/DPA DS.81DPR

WHEN FULLY IMPLEMENTED THE NOAAPORT AND RPCCDS COMMUNICATIONS THROUGHPUT OF WSR-88D PRODUCTS WILL INCREASE BY A FACTOR OF 2.8 ABOVE WHAT WILL BE REACHED AFTER COMPLETING PRODUCT ADDITIONS DESCRIBED IN TECHNICAL IMPLEMENTATION NOTICE 09-41. FOR EACH WSR-88D... THE AVERAGE HOURLY PRODUCT VOLUME VIA RPCCDS WILL BE APPROXIMATELY 14.5 MEGABYTES /MB/ AND THE AVERAGE DAILY VOLUME WILL BE 345.8 MB. WHEN FULLY IMPLEMENTED THE AVERAGE DAILY VOLUME FOR ALL WSR-88D RADARS WILL BE 53.9 GIGABYTES /GB/. WORST CASE HOURLY THROUGHPUT IS ESTIMATED TO REACH 48 MB FOR A SINGLE RADAR AND 4.2 GB FOR ALL 200 RADARS /155 WSR-88D AND 45 TDWR/. ON NOAAPORT... PRODUCTS ARE FURTHER COMPRESSED AND THEREFORE

THROUGHPUT WILL BE REDUCED SOMEWHAT.

ON THE TELECOMMUNICATIONS OPERATIONS CENTER /TOC/ FTP SERVER...  
RADAR PRODUCTS WILL BE PLACED IN THE PRODUCT NAMED SUBDIRECTORY  
LISTED IN TABLE 1 BELOW THE FOLLOWING DIRECTORY:

<FTP://TGFTP.NWS.NOAA.GOV/SL.US008001/DF.OF/DC.RADAR/>

NWS HAS ESTABLISHED THE FOLLOWING WEBSITE TO PROVIDE PLANS AND  
STATUS FOR THE DUAL POLARIZATION PROJECT... ADDITIONAL  
INFORMATION AND FOR PREVIEWING SAMPLE PRODUCTS:

<HTTP://WWW.ROC.NOAA.GOV/WSR88D/DUALPOL/DEFAULT.ASPX>

THE CONTENT AND FORMATS OF THE DUAL POLARIZATION PRODUCTS ARE  
DESCRIBED IN THE DRAFT PRODUCT SPECIFICATION INTERFACE CONTROL  
DOCUMENT /ICD/ AND THE DRAFT ICD FOR RPG TO CLASS 1 USER...  
AVAILABLE AT THE DUAL POL WEB SITE ABOVE.

IF YOU HAVE QUESTIONS OR COMMENTS... PLEASE CONTACT:

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1200 WESTHEIMER DRIVE  
NORMAN... OK 73069  
[TIM.D.CRUM@NOAA.GOV](mailto:TIM.D.CRUM@NOAA.GOV)

OR

MIKE ISTOK  
NWS... OFFICE OF SCIENCE AND TECHNOLOGY  
SILVER SPRING... MARYLAND  
[MICHAEL.ISTOK@NOAA.GOV](mailto:MICHAEL.ISTOK@NOAA.GOV)

IF YOU HAVE QUESTIONS ABOUT THE NOAAPORT ACTIVATION OR DATA FLOW  
OF THESE PRODUCTS... PLEASE CONTACT:

BRIAN GOCKEL  
NWS... OFFICE OF SCIENCE AND TECHNOLOGY  
SILVER SPRING... MARYLAND  
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THE CENTRALLY COLLECTED WSR-88D PRODUCTS WILL BE ARCHIVED AT THE  
NATIONAL CLIMATIC DATA CENTER /NCDC/ AND WILL BE AVAILABLE FOR  
DOWNLOAD FROM:

<HTTP://HURRICANE.NCDC.NOAA.GOV/PLS/PLHAS/HAS.DSSELECT>.

NATIONAL PUBLIC INFORMATION STATEMENTS ARE AVAILABLE ONLINE AT:

<HTTP://WWW.NWS.NOAA.GOV/OM/NOTIF.HTM>