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**Engineering Statement
STA for KPTW
Digital Channel *8 at Casper, Wyoming
February 2009**

This Engineering Statement has been prepared on behalf of Central Wyoming College ("CWC"), licensee of television station KPTW at Casper, Wyoming. KPTW presently operates on analog Channel *6, with no paired digital channel. Per the DTV Seventh Report and Order MO&O,¹ KPTW was assigned post-transition digital operation on Channel *6. Subsequently, it was approved by the Report and Order in MB Docket No. 08-108 to substitute digital Channel *8 for digital Channel *6 at Casper, and CWC holds a construction permit for that facility as BMPEDT-20081215ACM.

Pursuant to the procedures outlined in the Commission's February 5, 2009 Public Notice², CWC is requesting Special Temporary Authority to terminate its analog Channel *6 service on February 17, 2009, and to simultaneously begin digital Channel *8 operations with the facility authorized in BMPEDT-20081215ACM.

I. Interference Study

Study has been made of all cochannel and adjacent-channel facilities in the vicinity of the proposed operation, including a detailed Longley-Rice interference study to demonstrate that the proposed operation will not cause impermissible interference to any authorized analog or pre-transition digital stations. This study was performed using the SunDTV program from V-Soft Communications and a 2 km grid spacing. The SunDTV program identically duplicates the FCC's OET-69 processing program.

¹ See *Advanced Television Systems and their Impact Upon the Existing Television Broadcast Service*, MB Docket No. 87-268, Memorandum Opinion and Order on Reconsideration of the Seventh Report and Order and Eighth Further Notice of Proposed Rulemaking, FCC 08-72, Released March 6, 2008.

² See *FCC Announces Procedures Regarding Termination of Analog Television Service On or After February 17, 2009*, Public Notice, FCC 09-6, Released February 5, 2009.

The results of this study indicate that the proposed STA operation is predicted to cause zero additional interference to any authorized analog or pre-transition digital stations.

Summary Study

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 02-06-2009 Time: 10:58:38

Record Selected for Analysis

KPTW USERRECORD-02 CASPER WY US
Channel 08 ERP 2.3 kW HAAT 568. m RCAMSL 02502 m
Latitude 042-44-26 Longitude 0106-21-34
Status APP Zone 2 Border
Dir Antenna Make usr Model USRPAT02 Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	1.395	851.1	101.9
45.0	1.307	760.9	99.6
90.0	1.294	255.2	74.4
135.0	0.059	141.9	43.0
180.0	0.082	422.2	63.2
225.0	0.064	691.5	73.1
270.0	0.166	611.9	78.6
315.0	1.727	810.1	102.9

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

KPTW 08 CASPER WY USERRECORD02

and station

SHORT TO: KPTW 08 CASPER WY BMPEDT 20081215ACM
042-44-26 0106-21-34
Req. separation 273.6 Actual separation 0.0 Short 273.6 km

SHORT TO: KCWC-TV 08 LANDER WY BLEDT 20070226AEY
 042-34-59 0108-42-36
 Req. separation 273.6 Actual separation 193.5 Short 80.1 km

 SHORT TO: KCWC-DT 08 LANDER WY DTVPLN DTVP0051
 42-34-59 108-42-36
 Req. separation 273.6 Actual separation 193.5 Short 80.1 km

 SHORT TO: KWYP-TV 08 LARAMIE WY BMPEDT 20080617ADF
 041-18-35 0105-27-19
 Req. separation 273.6 Actual separation 175.7 Short 97.9 km

 SHORT TO: KWYP-TV 08 LARAMIE WY BLET 20041129BBK
 041-17-17 0105-26-42
 Req. separation 273.6 Actual separation 178.2 Short 95.4 km

 SHORT TO: KWYP-TV 08 LARAMIE WY USERRECORD01
 041-18-35 0105-27-19
 Req. separation 273.6 Actual separation 175.7 Short 97.9 km

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

 Start of Interference Analysis

Channel	Proposed Station	ARN
08	Call City/State KPTW CASPER WY	USERRECORD02

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KGWL-DT	LANDER WY	193.7	PLN	DTVPLN	-DTVP0037
07	KSWY	SHERIDAN WY	217.8	LIC	BLCT	-20020408ABG
07	KSWY	SHERIDAN WY	217.8	CP	BPCDT	-20080618ACM
08	KULR-TV	BILLINGS MT	374.7	LIC	BLCT	-598
08	KZSD-TV	MARTIN SD	397.5	LIC	BLET	-20070202AAO
08	KZSD-TV	MARTIN SD	397.5	APP	BSTA	-20081003ADP
08	KZSD-TV	MARTIN SD	397.5	CP MOD	BMPEDT	-20080618ACQ
08	KZSD-TV	MARTIN SD	397.5	APP	BSTA	-20080214AEE
08	KCWC-DT	LANDER WY	192.9	PLN	DTVPLN	-DTVP0051
08	KWYP-TV	LARAMIE WY	175.7	CP MOD	BMPEDT	-20080617ADF
08	KWYP-TV	LARAMIE WY	178.2	LIC	BLET	-20041129BBK
09	KFNR-DT	RAWLINS WY	129.9	PLN	DTVPLN	-DTVP0064

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Study of this proposal found the following interference problem(s):

NONE.

II. Current Digital Service Level

The requirement that the station maintain at least its current digital service is inapplicable to KPTW, since that station was never assigned a paired digital channel.

III. Post-Transition Operations

The requested STA facility exactly matches the station's authorized post-transition operations. Therefore, the station will commence full, authorized post-transition operations on the transition deadline.

IV. Service Level Will Be Maintained

The requested STA facility will not decrease the population which currently receives analog service.