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Project Name: FSD - new circling areas

Project Reason: New circling areas established based on existing procedure at airport - RNAV (GPS) RWY 33, Amdt 2. Cat A MDAs lowered IAW AJV-A management decision when lower minimums were already verified by flight inspection. Cat E minimums could be lowered but Cat E was not evaluated by flight inspection as part of RNAV (GPS) RWY 33, Amdt 2. To allow this project to remain "No Flight Check Required", Cat E minimums have been left at currently published values.

Alternate minimums updated if necessary based on current criteria and new circling HAA/vis only, other values not verified.

Controlling obstacles: Cat A: Antenna (46-029565) 433459.30N/0964224.31W 1660 (1B) + ROC 300 = MDA 1960. Cat B:

Tower (46-000196) 433248.00N/0964349.00W 1661 (2A) + ROC 300 = MDA 1980. Cat C: Tank (46-020600)

433149.80N/0964527.00W 1697 (4D) + ROC 300 + AC 50 = MDA 2060. Cat D: Tower (46-020593)

433628.57N/0964836.10W 1847 (5D) + ROC 300 + AC 50 = MDA 2200. Cat E: Tower (46-000424)

433839.38N/0964912.35W 1939 (1A) + ROC 300 = MDA 2240. Radii: Cat A: 1.31. Cat B: 1.86. Cat C: 2.92. Cat D: 3.82. Cat E: 4.78.

Last Updated By: Russell Roslewski

*Digitally signed by*

**DAVID DANNER**

Last Updated At: 2020-03-17 11:52:01.538471

Apr 27, 2020

Status: Verified

!FDC 0/6993 FSD IAP JOE FOSS FIELD, SIOUX FALLS, SD. VOR OR TACAN RWY 15, AMDT 21E... CIRCLING CAT A MDA 1960/HAA 530, CAT C MDA 2060/HAA 630, CAT D MDA 2200/HAA 770. VIS CAT C 1 3/4, CAT D 2 1/2. ALTERNATE MINIMUMS: STANDARD EXCEPT CAT D 800-2 1/2, CAT E 900-3. CHART CIRCLING ICON. THIS IS VOR OR TACAN RWY 15, AMDT 21F. 2003171152-PERM

