Department of Transportation
Division of Secretariat
Office of Air, Rail & Transit
700 East Broadway Avenue
Pierre, South Dakota 57501-2586
OFFICE: 605/773-3574
FAX: 605/773-2804

TO: South Dakota Aeronautics Commission

FROM: Jack Dokken, Office of Aeronautics

DATE: July 16, 2018

SUBJECT: Aeronautical Hazard Application

SDDOT Permit #2015-3922, Box Elder, SD
FAA Aeronautical Study 2018-AGL-10122-OE

SBA Network Services is proposing to construct a new 155' monopole antenna tower approximately 1.75 miles NNE of runway 13-31 at Ellsworth AFB.

Previous South Dakota Aeronautical Hazard Permit #2015-3922 was granted State approval at the July 28, 2015 Aeronautics Commission meeting for the same structure but the structure has not yet been built. Due to expiration of the permit the proponent is requesting approval for its reinstatement.

The FAA has determined:

- This proposal does not exceed FAA obstruction standards and would not be a hazard to air navigation.
- Lighting is not required.

The Department is recommending Commission approval.

SD EForm - 0941 V3

APPLICATION FOR LOCATION OF AERONAUTICAL HAZARD

South Dakota Aeronautics Commission
Becker-Hansen Building, 700 E Broadway Avenue
Pierre, South Dakota 57501-9989
Air, Rail and Transit (605)773-3574

State Permit #: 2015-3922

FAA Airspace #: 2018-AGL-10122-OE

A. APPLICANT

Proponent:

Company: SBA Network Servuices
Address: 8051 Congress Avenue
Boca Raton FL 33487
Phone: (561) 226-9481
Fax:
Attention: Clinton Papenfuss

Proponent's Representative:

Company:
Address:
Phone:
Fax:
Attention:

B.TYPE OF STRUCTURE

Type: (●) New Construction ( ) Alteration ( ) Existing

Work Schedule Dates:
Begin Date: 10/1/2018
End Date: 12/1/2018

Nature and Complete Description of Structure
(Type of material, obstruction lighting and painting and any special marking):

Proposed new construction, prior FAA Determination (2015-AGL-3922-OE) and the SD State approval have expired. Attached is the new FAA Determination (2018-AGL-10122-OE), map, and 1A survey
cpapenfuss@sbasite.com

C. LOCATION INFORMATION

Latitude: 44d 09m 53.65s
Longitude: 103d 04m 55.27s
Nearest City: Ellsworth, AFB
Dist & Direction to City: On Base

Nearest Public Use Airport:
Airport/City: ,
Distance & Directions to Airport: Ellsworth AFB 9,205 feet Southwest of ARP

Location Description:
See the attached map and 1A Survey

Height of Structure:
a. Site Elev: ft. (MSL)..... 3273
b. Structure Height: ft. (AGL).. 155
c. Overall Height: ft. (MSL)..... 3428

Nearest State Hwy & Distance to Hwy Centerline:
US 14/16 17,263' South of study site

THE UNDERSIGNED HEREBY AGREES TO SUCH FURTHER REQUIREMENTS AS THE STATE AERONAUTICS COMMISSION MAY PRESCRIBE RELATING TO MARKING, LIGHTING AND SAFTEY TO THE FLYING PUBLIC AS MAY FROM TIME TO TIME BE ADOPTED BY THE COMMISSION FOR TOWERS 499' AND TALLER.
CERTIFICATION: I hereby certify that all of the above statements made by me are true, complete and correct to the best of my knowledge and belief.

Date: 07/03/2018
Name and Title: Clinton T. Papenfuss, SBA Airspace Analyst
Signature:

Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2018-AGL-10122-OE
Prior Study No.
2015-AGL-3922-OE

Issued Date: 07/03/2018

Clinton Papenfuss
SBA Towers
8051 Congress Avenue
Boca Raton, FL 33487-1310

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Antenna Tower SD 16675-B
Location:	Ellsworth AFB, SD
Latitude:	44-09-53.65N NAD 83
Longitude:	103-04-55.27W
Heights:	3273 feet site elevation (SE)
	155 feet above ground level (AGL)
	3428 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 L Change 1.

This determination expires on 01/03/2020 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (718) 553-2611, or angelique.eersteling@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2018-AGL-10122-OE.

Signature Control No: 365760672-369220444 (DNE)
Angelique Eersteling
Technician

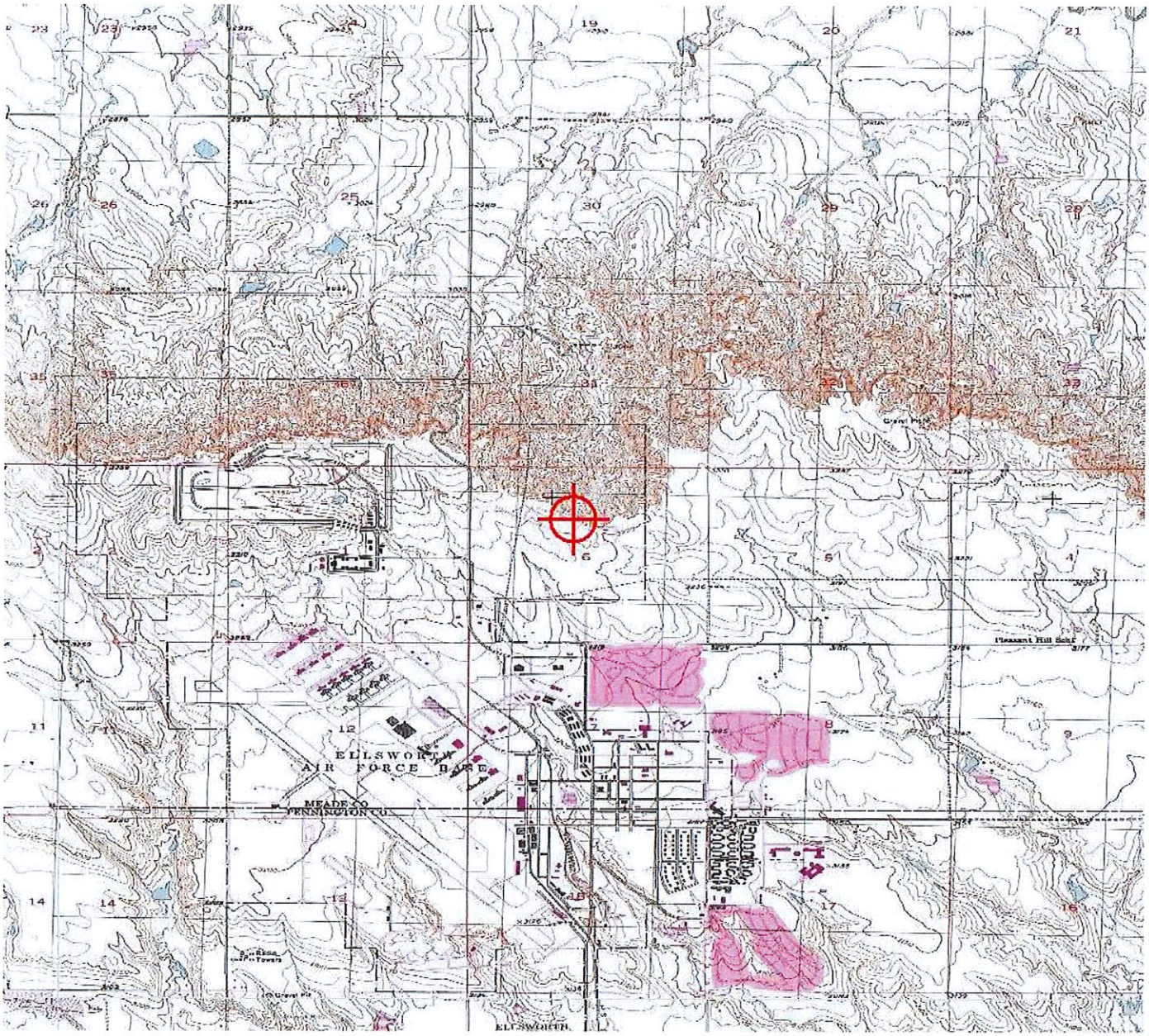
Attachment(s)
Frequency Data
Map(s)

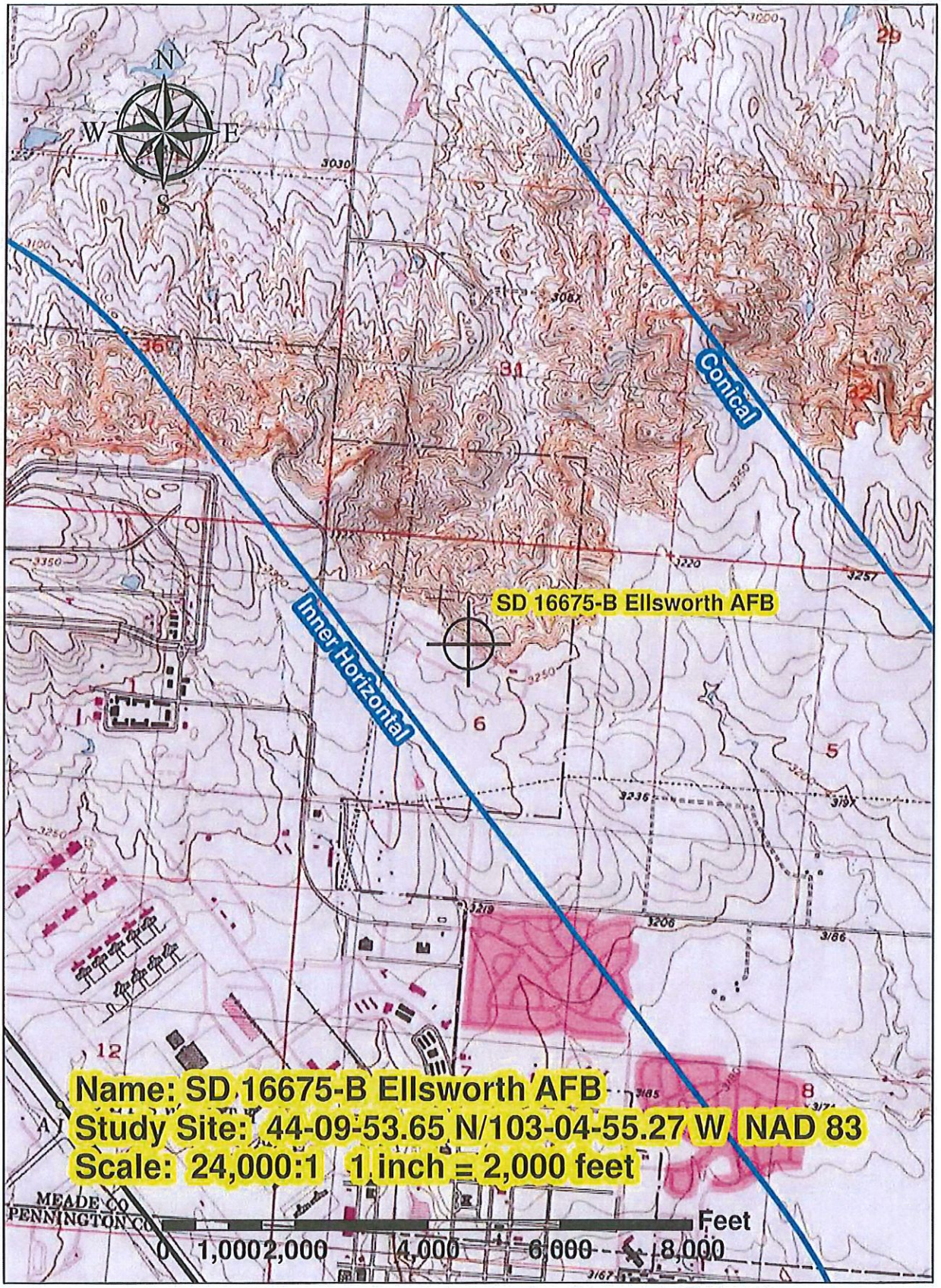
cc: FCC

Frequency Data for ASN 2018-AGL-10122-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	1000	W
614	698	MHz	2000	W
698	806	MHz	1000	W
806	901	MHz	500	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W

TOPO Map for ASN 2018-AGL-10122-OE




N
W
E
S
Conical
Inner Horizontal
SD 16675-B Ellsworth AFB
Name: SD 16675-B Ellsworth AFB
Study Site: 44-09-53.65 N/103-04-55.27 W NAD 83
Scale: 24,000:1 1 inch = 2,000 feet
MEADE CO
PENNINGTON CO
Feet
0 1,0002,000 4,000 6,000 8,000

WIDSETH SMITH NOLTING

Alexandria
610 Fillmore Street
PO Box 1028
Alexandria, MN 56308-1028

320.762.8149
320.762.0263
Alexandria@wsn.us.com

WidsethSmithNolting.com

1A SITE CERTIFICATION STATEMENT

March 10, 2015

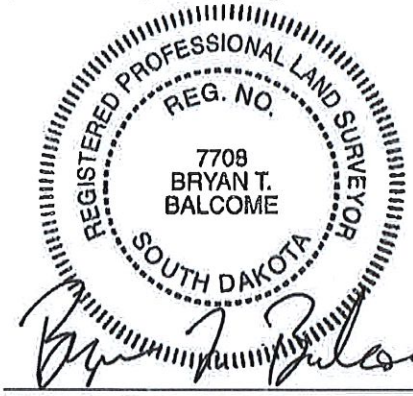
SBA PROJECT NAME:	ELLSWORTH AFB
SBA PROJECT NUMBER:	SD16675-B
SITE ADDRESS:	Scott Drive, East of CR-MC-15 Piedmont, SD 57769

PROPOSED TOWER CENTER:

LATITUDE: 44 09 53.653 North (NAD83)
LONGITUDE 103 04 55.274 West (NAD83)

GROUND ELEVATION: 3273.0 (NAVD88)

I certify that the latitude and longitude is accurate to within plus or minus 20 feet horizontally and the ground elevation is accurate to within plus or minus 3 feet vertically. The horizontal datum is based on the 2011 adjusted, 1983 North American Datum (NAD83), and is expressed in degrees, minutes, and seconds. The vertical datum is based on the North American Vertical Datum of 1988 (NAVD 88) and is expressed in US FEET.



Bryan T. Balcome, L.S.
South Dakota Registration No. 7708

FILE#: 494A1513.000


SBA proposed antenna tower
1.7 Miles
RCA
Ellsworth AFB
225th St
Tower Rd
Ellsworth Rd
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