

Aeronautical Study No. 2017-AGL-20567-OE

Issued Date: 01/12/2018

Dave Higgins McGough Companies 2737 Fairview Ave N St. Paul, MN 55113

### \*\*DETERMINATION OF NO HAZARD TO AIR NAVIGATION FOR TEMPORARY STRUCTURE\*\*

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: Crane PT #1

Location: Bloomington, MN Latitude: 44-51-27.36N NAD 83

Longitude: 93-13-31.44W

Heights: 821 feet site elevation (SE)

170 feet above ground level (AGL) 991 feet above mean sea level (AMSL)

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

# \*\*SEE ATTACHMENT FOR ADDITIONAL CONDITION(S) OR INFORMATION\*\*

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.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of a 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 temporary 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.

If you have any questions, please contact our office 20/899/294-7458, or fred.souchet@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2017-AGL-20567-OE

Signature Control No: 349955352-352980217 (TMP)

# Additional Condition(s) or Infbffffaffbff ASN 2017-AGL-20567-OE PL2018-149

**Proposal:** To construct and/or operate a(n) Crane to a height of 170 feet above ground level, 991 feet above mean sea level.

**Location:** The structure will be located 1.46 nautical miles south of MSP Airport reference point.

# Part 77 Obstruction Standard(s) Exceeded and Aeronautical Impacts, if any:

## Preliminary FAA study indicates that the above mentioned structure would:

have no effect on any existing or proposed arrival, departure, or en route instrument flight rules (IFR) operations or procedures.

have no effect on any existing or proposed arrival, departure, or en route visual flight rules (VFR) operations. have no effect on any existing or proposed arrival, departure, or en route instrument/visual flight rules (IFR/VFR) minimum flight altitudes.

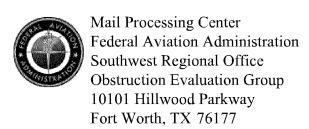
not exceed traffic pattern airspace

have no physical or electromagnetic effect on the operation of air navigation and communications facilities. have no effect on any airspace and routes used by the military.

Based on this aeronautical study, the structure would not constitute a substantial adverse effect on aeronautical operations or procedures because it will be temporary. The temporary structure would not be considered a hazard to air navigation provided all of the conditions specified in this determination are strictly met.

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 07/12/2019 unless extended, revised, or terminated by the issuing office.



Aeronautical Study No. 2017-AGL-20557-OE

Issued Date: 01/12/2018

Dave Higgins McGough Companies 2737 Fairview Ave N St. Paul, MN 55113

### \*\*DETERMINATION OF NO HAZARD TO AIR NAVIGATION FOR TEMPORARY STRUCTURE\*\*

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: Crane PT. #2

Location: Bloomington, MN Latitude: 44-51-27.36N NAD 83

Longitude: 93-13-24.60W

Heights: 821 feet site elevation (SE)

170 feet above ground level (AGL) 991 feet above mean sea level (AMSL)

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

# \*\*SEE ATTACHMENT FOR ADDITIONAL CONDITION(S) OR INFORMATION\*\*

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.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of a 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 temporary 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.

If you have any questions, please contact our office 20/899/294-7458, or fred.souchet@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2017-AGL-20557-OE

Signature Control No: 349955342-352980220 (TMP)

# Additional Condition(s) or Infbffffaffbff ASN 2017-AGL-20557-OE PL2018-149

**Proposal:** To construct and/or operate a(n) Crane to a height of 170 feet above ground level, 991 feet above mean sea level.

**Location:** The structure will be located 1.46 nautical miles south of MSP Airport reference point.

# Part 77 Obstruction Standard(s) Exceeded and Aeronautical Impacts, if any:

## Preliminary FAA study indicates that the above mentioned structure would:

have no effect on any existing or proposed arrival, departure, or en route instrument flight rules (IFR) operations or procedures.

have no effect on any existing or proposed arrival, departure, or en route visual flight rules (VFR) operations. have no effect on any existing or proposed arrival, departure, or en route instrument/visual flight rules (IFR/VFR) minimum flight altitudes.

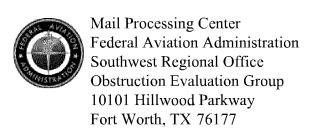
not exceed traffic pattern airspace

have no physical or electromagnetic effect on the operation of air navigation and communications facilities. have no effect on any airspace and routes used by the military.

Based on this aeronautical study, the structure would not constitute a substantial adverse effect on aeronautical operations or procedures because it will be temporary. The temporary structure would not be considered a hazard to air navigation provided all of the conditions specified in this determination are strictly met.

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 07/12/2019 unless extended, revised, or terminated by the issuing office.



Aeronautical Study No. 2017-AGL-20558-OE

Issued Date: 01/12/2018

Dave Higgins McGough Companies 2737 Fairview Ave N St. Paul, MN 55113

### \*\*DETERMINATION OF NO HAZARD TO AIR NAVIGATION FOR TEMPORARY STRUCTURE\*\*

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: Crane PT. #3

Location: Bloomington, MN Latitude: 44-51-24.12N NAD 83

Longitude: 93-13-24.24W

Heights: 821 feet site elevation (SE)

170 feet above ground level (AGL) 991 feet above mean sea level (AMSL)

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

# \*\*SEE ATTACHMENT FOR ADDITIONAL CONDITION(S) OR INFORMATION\*\*

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.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of a 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 temporary 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.

If you have any questions, please contact our office 20(809) 294-7458, or fred.souchet@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2017-AGL-20558-OE

(TMP)

Signature Control No: 349955343-352980219

# Additional Condition(s) or Infbffffaffbff ASN 2017-AGL-20558-OE PL2018-149

**Proposal:** To construct and/or operate a(n) Crane to a height of 170 feet above ground level, 991 feet above mean sea level.

**Location:** The structure will be located 1.46 nautical miles south of MSP Airport reference point.

# Part 77 Obstruction Standard(s) Exceeded and Aeronautical Impacts, if any:

## Preliminary FAA study indicates that the above mentioned structure would:

have no effect on any existing or proposed arrival, departure, or en route instrument flight rules (IFR) operations or procedures.

have no effect on any existing or proposed arrival, departure, or en route visual flight rules (VFR) operations. have no effect on any existing or proposed arrival, departure, or en route instrument/visual flight rules (IFR/VFR) minimum flight altitudes.

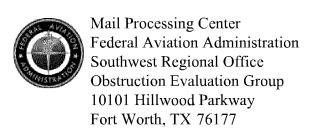
not exceed traffic pattern airspace

have no physical or electromagnetic effect on the operation of air navigation and communications facilities. have no effect on any airspace and routes used by the military.

Based on this aeronautical study, the structure would not constitute a substantial adverse effect on aeronautical operations or procedures because it will be temporary. The temporary structure would not be considered a hazard to air navigation provided all of the conditions specified in this determination are strictly met.

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 07/12/2019 unless extended, revised, or terminated by the issuing office.



Aeronautical Study No. 2017-AGL-20559-OE

Issued Date: 01/12/2018

Dave Higgins McGough Companies 2737 Fairview Ave N St. Paul, MN 55113

### \*\*DETERMINATION OF NO HAZARD TO AIR NAVIGATION FOR TEMPORARY STRUCTURE\*\*

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: Crane PT. #4

Location: Bloomington, MN Latitude: 44-51-23.04N NAD 83

Longitude: 93-13-26.04W

Heights: 821 feet site elevation (SE)

170 feet above ground level (AGL) 991 feet above mean sea level (AMSL)

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

# \*\*SEE ATTACHMENT FOR ADDITIONAL CONDITION(S) OR INFORMATION\*\*

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.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of a 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 temporary 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.

If you have any questions, please contact our office 20/899/294-7458, or fred.souchet@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2017-AGL-20559-OE

Signature Control No: 349955344-352980218

(TMP)

# Additional Condition(s) or Infl-20124014for ASN 2017-AGL-20559-OE PL2018-149

**Proposal:** To construct and/or operate a(n) Crane to a height of 170 feet above ground level, 991 feet above mean sea level.

**Location:** The structure will be located 1.46 nautical miles south of MSP Airport reference point.

# Part 77 Obstruction Standard(s) Exceeded and Aeronautical Impacts, if any:

## Preliminary FAA study indicates that the above mentioned structure would:

have no effect on any existing or proposed arrival, departure, or en route instrument flight rules (IFR) operations or procedures.

have no effect on any existing or proposed arrival, departure, or en route visual flight rules (VFR) operations. have no effect on any existing or proposed arrival, departure, or en route instrument/visual flight rules (IFR/VFR) minimum flight altitudes.

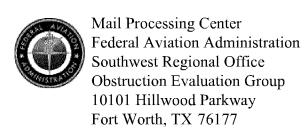
not exceed traffic pattern airspace

have no physical or electromagnetic effect on the operation of air navigation and communications facilities. have no effect on any airspace and routes used by the military.

Based on this aeronautical study, the structure would not constitute a substantial adverse effect on aeronautical operations or procedures because it will be temporary. The temporary structure would not be considered a hazard to air navigation provided all of the conditions specified in this determination are strictly met.

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 07/12/2019 unless extended, revised, or terminated by the issuing office.



Aeronautical Study No. 2017-AGL-20560-OE

Issued Date: 01/12/2018

Dave Higgins McGough Companies 2737 Fairview Ave N St. Paul, MN 55113

### \*\*DETERMINATION OF NO HAZARD TO AIR NAVIGATION FOR TEMPORARY STRUCTURE\*\*

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: Crane PT. #5

Location: Bloomington, MN Latitude: 44-51-23.04N NAD 83

Longitude: 93-13-32.16W

Heights: 821 feet site elevation (SE)

170 feet above ground level (AGL) 991 feet above mean sea level (AMSL)

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

# \*\*SEE ATTACHMENT FOR ADDITIONAL CONDITION(S) OR INFORMATION\*\*

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.

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If you have any questions, please contact our office 20/899/294-7458, or fred.souchet@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2017-AGL-20560-OE

(TMP)

Signature Control No: 349955345-352980216

# Additional Condition(s) or Infl-20124014for ASN 2017-AGL-20560-OE PL2018-149

**Proposal:** To construct and/or operate a(n) Crane to a height of 170 feet above ground level, 991 feet above mean sea level.

**Location:** The structure will be located 1.46 nautical miles south of MSP Airport reference point.

# Part 77 Obstruction Standard(s) Exceeded and Aeronautical Impacts, if any:

## Preliminary FAA study indicates that the above mentioned structure would:

have no effect on any existing or proposed arrival, departure, or en route instrument flight rules (IFR) operations or procedures.

have no effect on any existing or proposed arrival, departure, or en route visual flight rules (VFR) operations. have no effect on any existing or proposed arrival, departure, or en route instrument/visual flight rules (IFR/VFR) minimum flight altitudes.

not exceed traffic pattern airspace

have no physical or electromagnetic effect on the operation of air navigation and communications facilities. have no effect on any airspace and routes used by the military.

Based on this aeronautical study, the structure would not constitute a substantial adverse effect on aeronautical operations or procedures because it will be temporary. The temporary structure would not be considered a hazard to air navigation provided all of the conditions specified in this determination are strictly met.

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 07/12/2019 unless extended, revised, or terminated by the issuing office.