

**SECTION III - LICENSE APPLICATION ENGINEERING DATA**

Name of Applicant

**KROS Broadcasting, Inc.**

PURPOSE OF AUTHORIZATION APPLIED FOR: (check one)



Station License



Direct Measurement of Power

**1. Facilities authorized in construction permit**

Call Sign	File No. of Construction Permit (if applicable)	Frequency (kHz)	Hours of Operation	Power in kilowatts	
				Night	Day
<b>KROS</b>	<b>BP-20210927ACR</b>	<b>1340 kHz</b>	<b>Unlimited</b>	<b>1.0 kW</b>	<b>1.0 kW</b>

**2. Station location**

State <b>Iowa</b>	City or Town <b>Clinton</b>
----------------------	--------------------------------

**3. Transmitter location**

State <b>IA</b>	County <b>Clinton</b>	City or Town <b>Clinton</b>	Street address (or other identification) <b>870 13th Ave N</b>
--------------------	--------------------------	--------------------------------	--

**4. Main studio location**

State <b>IA</b>	County <b>Clinton</b>	City or Town <b>Clinton</b>	Street address (or other identification) <b>870 13th Ave N</b>
--------------------	--------------------------	--------------------------------	--

**5. Remote control point location (specify only if authorized directional antenna)**

State <b>N/A</b>	County <b>N/A</b>	City or Town <b>N/A</b>	Street address (or other identification) <b>N/A</b>
---------------------	----------------------	----------------------------	---

6. Has type-approved stereo generating equipment been installed?



Yes



No

7. Does the sampling system meet the requirements of 47 C.F.R. Section 73.68?



Yes



No



Not Applicable

Attach as an Exhibit a detailed description of the sampling system as installed.

Exhibit No.

**8. Operating constants:**

RF common point or antenna current (in amperes) without modulation for Night System <b>3.8 amperes</b>	RF common point or antenna current (in amperes) without modulation for day system <b>3.8 amperes</b>
Measured antenna or common point resistance (in ohms) at operating frequency Night <b>68.0 ohms</b> Day <b>68.0 ohms</b>	Measured antenna or common point reactance (in ohms) at operating frequency Night <b>- J 591 ohms</b> Day <b>- J 591 ohms</b>

**Antenna indications for directional operation**

Towers	Antenna monitor Phase reading(s) in degrees		Antenna monitor sample current ratio(s)		Antenna base currents	
	Night	Day	Night	Day	Night	Day

Manufacturer and type of antenna monitor:

# SECTION III - Page 2

9. Description of antenna system ((f directional antenna is used, the information requested below should be given for each element of the array. Use separate sheets if necessary.)

Type Radiator 3-wire folded unipole skirt mounted on a guyed, uniform cross-section, grounded steel tower.	Overall height in meters of radiator above base insulator, or above base, if grounded.  120.1 meters	Overall height in meters above ground (without obstruction lighting)  121.6 meters	Overall height in meters above ground (include obstruction lighting)  122.5 meters	If antenna is either top loaded or sectionalized, describe fully in an Exhibit.  Exhibit No.
---	--	--	--	--

Excitation

☐

Series  
(Insulated)

☒

Shunt  
(Grounded)

ASR(NDA D1/N1) = 1035763

Geographic coordinates to nearest second. For directional antenna give coordinates of center of array. For single vertical radiator give tower location.

North Latitude (NAD 1927)	41 °	51 '	36 "	West Longitude (NAD 1927)	90 °	12 '	18 "
------------------------------	------	------	------	------------------------------	------	------	------

(NAD 1983 Coordinates: 41-51-36.0 NL; 090-12-18.0 WL)

If not fully described above, attach as an Exhibit further details and dimensions including any other antenna mounted on tower and associated isolation circuits.

Exhibit No.  
See Vertical Plan

Also, if necessary for a complete description, attach as an Exhibit a sketch of the details and dimensions of ground system.

Exhibit No.

10. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the permit?

The apparatus, as constructed, does not differ from that described in Construction Permit BP-20210927ACR. However, the applicant would like to note the concurrent addition of the K290CL.C - Clinton, IA; FM Translator facility as authorized under K290CL.C Construction Permit LMS-0000169164.

11. Give reasons for the change in antenna or common point resistance.

This Form 302-AM License to Cover Application is being filed to cover outstanding Construction Permit BP-20210927ACR. Therefore, a new non-directional antenna resistance measurement has been taken and submitted herein. The applicant would like to note the concurrent addition of the K290CL.C - Clinton, IA; FM Translator facility as authorized under K290CL.C Construction Permit LMS-0000169164.

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Name (Please Print or Type) Justin W. Asher	Signature (check appropriate box below) 
Address (include ZIP Code) Asher Broadcast Consulting, LLC 579 Babcock Road Bronson, MI 49028-9347	Date August 5, 2022  Telephone No. (Include Area Code) 1(202)875-2986

☐

Technical Director

☐

Registered Professional Engineer

☐

Chief Operator

☒

Technical Consultant

☐

Other (specify)

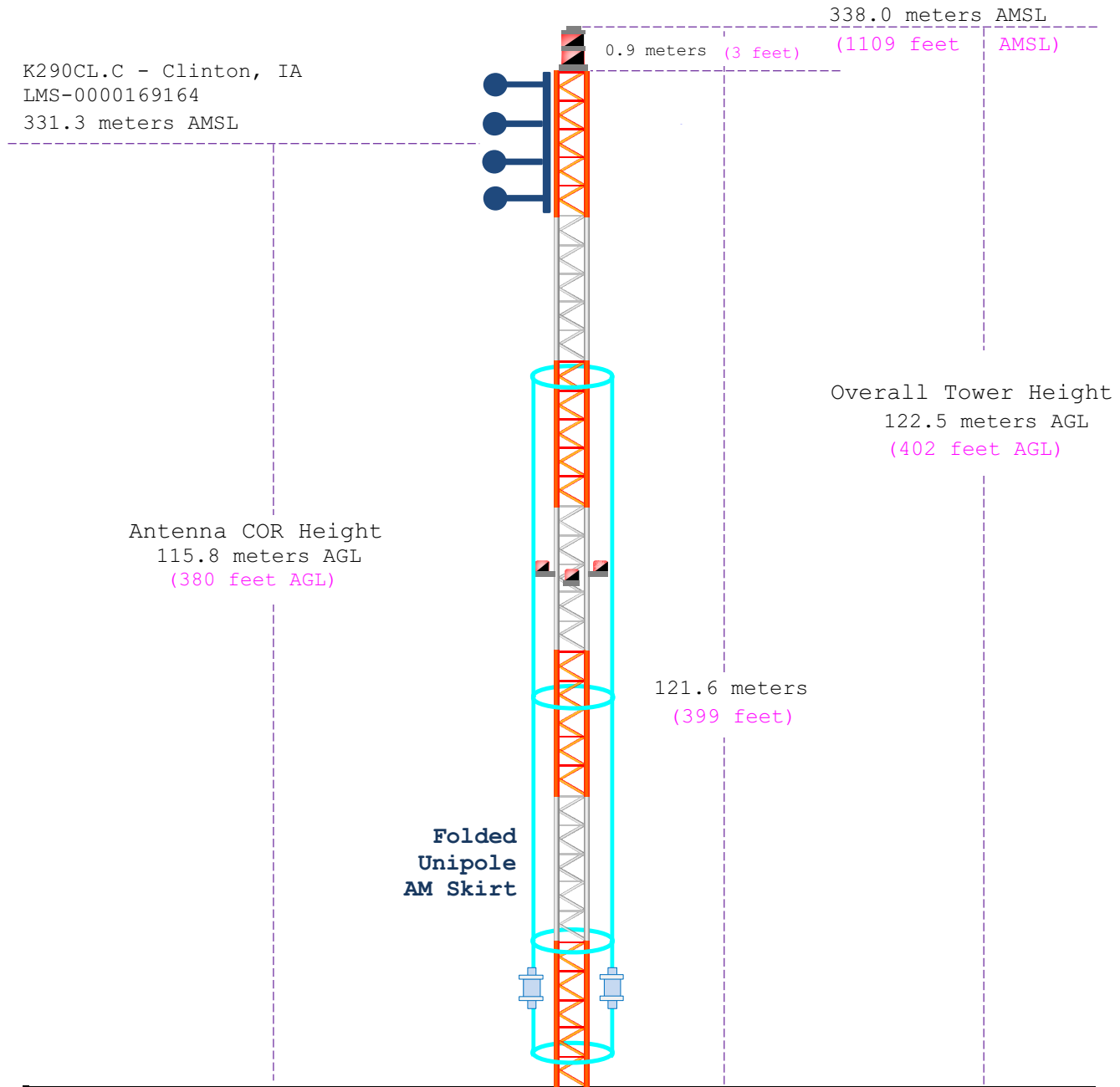
**Call letters:** KR0S (AM) .C  
**City of License:** Clinton, IA  
**Channel:** 1340 kHz  
**File No:** BP-20210927ACR  
**Facility ID:** 35557  
**Applicant:** KR0S Broadcasting, Inc.

## **Explanation of AM Station License to Cover Filing and Compliance with Special Operating Conditions or Restrictions.**

1. The permittee certifies it has installed a type accepted transmitter. No submission of an application (FCC Form 301) along with data prescribed in Section 73.1660(b) is required as no non-type accepted transmitter has being utilized.
2. The permittee acknowledges it must accept such interference as may be imposed by other existing 250 watt Class C stations in the event that they are subsequently authorized to increase power to 1000 watts.
3. The permittee certifies a license application (FCC Form 302) to cover this construction permit has been filed with the Commission pursuant to Section 73.3536 of the Rules before the permit expires.
4. The permittee acknowledges it shall be responsible for satisfying all reasonable complaints of blanketing interference within the 1 V/m contour as required by Section 73.88 of the Commission's rules.
5. The permittee certifies use of the following Antenna system: vertical, grounded and shunt-fed with a folded unipole.
6. The permittee certifies coordination with other users of the site to reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.
7. The permittee certifies use of an excited antenna with a symmetrical folded unipole feed, utilizing a minimum of three folds. The permittee certifies no slant wire configuration has been utilized.

# Clinton, IA - KROS(AM)

## Vertical Plan of Antenna System and Support Tower



Ground Elevation: 215.5 meters AMSL (707 feet AMSL)		
Address: 870 13TH AVE N		
City: CLINTON	Latitude (D M S) Longitude (D M S)	
County: CLINTON	--- (NAD 1927)	
State: IOWA	Lat/Long: 41-51-36.0 N 090-12-18.0 W (NAD 1983)	
Antenna Structure Registration 1035763	Drawing Is Not To Scale	Asher Broadcast Consulting, LLC justinasher@consultant.com 1(202)875-2986

**Clinton, IA - KROS(AM)**  
**Copy of Existing Antenna Structure Registration**  
**(public record copy)**

**Registration Detail**

Reg Number	1035763	Status	Constructed
File Number	A0042239	Constructed	06/01/1947
EMI	No	Dismantled	
NEPA	No		

**Antenna Structure**

Structure Type TOWER - Free standing or Guyed Structure used for Commu

**Location** (in NAD83 Coordinates)

Lat/Long	41-51-36.0 N 090-12-18.0 W	Address	870 13TH AVE N
City, State	CLINTON , IA		
Zip	52732	County	CLINTON
Center of AM Array		Position of Tower in Array	

**Heights (meters)**

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
215.5	122.5
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
338.0	121.6

**Painting and Lighting Specifications**

FCC Paragraphs 1, 3, 12, 21

**FAA Notification**

FAA Study	FAA Issue Date
-----------	----------------

**Owner & Contact Information**

FRN	Owner Entity Type
<b>Owner</b>	
KROS BROADCASTING INC	P: (319)242-1252
Attention To: DON SCHNEIDER	F:
870 13TH AVE N	E: KROS@CLINTON.NET
CLINTON , IA 52732	
<b>Contact</b>	

P:  
F:  
E:

**Last Action Status**

Status	Constructed	Received	12/04/1997
Purpose	New	Entered	12/12/1997
Mode	Mail In (Manual)		

**Related Applications**

12/04/1997	A0042239 - New (NE)
------------	---------------------

**Comments**

**Comments**

None

**History**

**Date**

**Event**

None

**Pleadings**

Pleading Type	Filer Name	Description	Date Entered
None			

**Automated Letters**

None