

2018 FEB -6 PM 2: 49

Stephen Wilde  
8024 Lesser Way  
Citrus Heights, CA 95621  
530-574-3474

January 31, 2018

Accepted / Filed

FEB -2 2018

Federal Communications Commission  
Office of the Secretary

**For Hand Delivery**

Office of the Secretary  
Federal Communications Commission  
445 12th Street SW  
Washington, DC 20554

Re: **AM Station KTMP, Heber City, UT (Facility ID No. 14478)**

Dear Madam Secretary:

Submitted herewith, on behalf of Air-Free Wireless, Inc., licensee of AM radio station KTMP, Heber City, Utah, is an application on Form 302-AM, filed in triplicate, submitted for the purpose of correcting the geographical coordinates of the KTMP tower structure and for the purpose of updating the base impedance and base current.

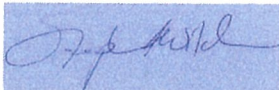
Should there be any questions concerning the enclosed Form 302-AM, please contact me, Air-Free Wireless' consulting broadcast engineer for this project.

Respectfully,

Stephen Wilde  
[steve@sweservices.net](mailto:steve@sweservices.net)

2/1/2018

X



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Stephen Wilde  
RF Engineer  
Signed by: swilde

FOR  
FCC  
USE  
ONLY

**FCC 302-AM**  
**APPLICATION FOR AM**  
**BROADCAST STATION LICENSE**

(Please read instructions before filling out form.)

FOR COMMISSION USE ONLY

FILE NO.

*BMP - 20180202 ABH*

**SECTION I - APPLICANT FEE INFORMATION**

*Accepted / Filed*

1. PAYOR NAME (Last, First, Middle Initial)

Air-Free Wireless, Inc.

*FEB - 2 2018*

MAILING ADDRESS (Line 1) (Maximum 35 characters)

P.O. Box 323

Federal Communications Commission  
Office of the Secretary

MAILING ADDRESS (Line 2) (Maximum 35 characters)

CITY

Ephraim

STATE OR COUNTRY (If foreign address)

UT

ZIP CODE

84627

TELEPHONE NUMBER (include area code)

435-691-6000

CALL LETTERS

KTMP

OTHER FCC IDENTIFIER (If applicable)

Fac. ID 14478

2. A. Is a fee submitted with this application?

☐ Yes ☒ No

B. If No, indicate reason for fee exemption (see 47 C.F.R. Section

☐ Governmental Entity

☐ Noncommercial educational licensee

☒ Other (Please explain):

*Nonfeeable.*

C. If Yes, provide the following information:

*See response to Sec. III,  
Question 10.*

Enter in Column (A) the correct Fee Type Code for the service you are applying for. Fee Type Codes may be found in the "Mass Media Services Fee Filing Guide." Column (B) lists the Fee Multiple applicable for this application. Enter fee amount due in Column (C).

(A)		
FEE TYPE CODE		

(B)			
FEE MULTIPLE			
0	0	0	1

(C)
FEE DUE FOR FEE TYPE CODE IN COLUMN (A)
\$

FOR FCC USE ONLY

To be used only when you are requesting concurrent actions which result in a requirement to list more than one Fee Type Code.

(A)

(B)			
0	0	0	1

(C)
\$

FOR FCC USE ONLY

ADD ALL AMOUNTS SHOWN IN COLUMN C, AND ENTER THE TOTAL HERE. THIS AMOUNT SHOULD EQUAL YOUR ENCLOSED REMITTANCE.

TOTAL AMOUNT REMITTED WITH THIS APPLICATION
\$

FOR FCC USE ONLY

*BL-1981 1120AF*

SECTION II - APPLICANT INFORMATION		
1. NAME OF APPLICANT Air-Free Wireless, Inc.		
MAILING ADDRESS PO Box 323		
CITY Ephraim	STATE UT	ZIP CODE 84627

2. This application is for:

- ☒ Commercial
 ☐ Noncommercial  
☐ AM Directional
 ☒ AM Non-Directional

Call letters KTMP	Community of License Heber City	Construction Permit File No. N/A	Modification of Construction Permit File No(s). N/A	Expiration Date of Last Construction Permit N/A
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3. Is the station now operating pursuant to automatic program test authority in accordance with 47 C.F.R. Section 73.1620?

☐ Yes ☐ No

If No, explain in an Exhibit.

Exhibit No.

4. Have all the terms, conditions, and obligations set forth in the above described construction permit been fully met?

☐ Yes ☐ No

If No, state exceptions in an Exhibit.

Exhibit No.

5. Apart from the changes already reported, has any cause or circumstance arisen since the grant of the underlying construction permit which would result in any statement or representation contained in the construction permit application to be now incorrect?

☐ Yes ☐ No

If Yes, explain in an Exhibit.

Exhibit No.

6. Has the permittee filed its Ownership Report (FCC Form 323) or ownership certification in accordance with 47 C.F.R. Section 73.3615(b)?

☐ Yes ☐ No

☒ Does not apply

If No, explain in an Exhibit.

Exhibit No.

7. Has an adverse finding been made or an adverse final action been taken by any court or administrative body with respect to the applicant or parties to the application in a civil or criminal proceeding, brought under the provisions of any law relating to the following: any felony; mass media related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination?

☐ Yes ☒ No

If the answer is Yes, attach as an Exhibit a full disclosure of the persons and matters involved, including an identification of the court or administrative body and the proceeding (by dates and file numbers), and the disposition of the litigation. Where the requisite information has been earlier disclosed in connection with another application or as required by 47 U.S.C. Section 1.65(c), the applicant need only provide: (i) an identification of that previous submission by reference to the file number in the case of an application, the call letters of the station regarding which the application or Section 1.65 information was filed, and the date of filing; and (ii) the disposition of the previously reported matter.

Exhibit No.



8 Does the applicant, or any party to the application, have a petition on file to migrate to the expanded band (1605-1705 kHz) or a permit or license either in the existing band or expanded band that is held in combination (pursuant to the 5 year holding period allowed) with the AM facility proposed to be modified herein?

☐ Yes ☒ No

If Yes, provide particulars as an Exhibit.

Exhibit No.

The APPLICANT hereby waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because use of the same, whether by license or otherwise, and requests and authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended)

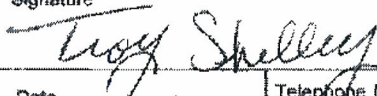
The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations and that all the exhibits are a material part hereof and are incorporated herein as set out in full in

### CERTIFICATION

1 By checking Yes, the applicant certifies, that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862, or, in the case of a non-individual applicant (e.g., corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits that includes FCC benefits pursuant to that section. For the definition of a "party" for these purposes, see 47 C.F.R. Section 1.2002(b).

☒ Yes ☐ No

2. I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

Name Troy Shelley	Signature 	
Title President	Date 1/31/18	Telephone Number 435-691-6000

**WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION**

### FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The Commission will use the information provided in this form to determine whether grant of the application is in the public interest. In reaching that determination, or for law enforcement purposes, it may become necessary to refer personal information contained in this form to another government agency. In addition, all information provided in this form will be available for public inspection. If information requested on the form is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Your response is required to obtain the requested authorization.

Public reporting burden for this collection of information is estimated to average 639 hours and 53 minutes, per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Records Management Branch, Paperwork Reduction Project (3060-0627), Washington, D. C. 20554. Do NOT send completed forms to this address.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

**SECTION III - LICENSE APPLICATION ENGINEERING DATA**

Name of Applicant

**Air-Free Wireless, 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	
<b>KTMP</b>		<b>1340</b>	<b>unlimited</b>	Night <b>1.0</b>	Day <b>1.0</b>

**2. Station location**

State <b>Utah</b>	City or Town <b>Heber City</b>
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**3. Transmitter location**

State <b>Utah</b>	County <b>Wasatch</b>	City or Town <b>Heber</b>	Street address (or other identification) 40-30-5.3 N 111-26-55.0 W
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**4. Main studio location**

State No Longer Applies	County No Longer Applies	City or Town No Longer Applies	Street address (or other identification) No Longer Applies
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**5. Remote control point location (specify only if authorized directional antenna)**

State	County	City or Town	Street address (or other identification)
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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 5.3 Amps	RF common point or antenna current (in amperes) without modulation for day system 5.3 Amps
Measured antenna or common point resistance (in ohms) at operating frequency Night 35.5 Day 35.5	Measured antenna or common point reactance (in ohms) at operating frequency Night +64.3 Day +64.3

**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	Overall height in meters of radiator above base insulator, or above base, if grounded.	Overall height in meters above ground (without obstruction lighting)	Overall height in meters above ground (include obstruction lighting)	If antenna is either top loaded or sectionalized, describe fully in an Exhibit.
Non Directional Series Fed Single(one) tower	45.5 meters	46.1 meters	46.1 meters	Exhibit No. 1

Excitation ☒ Series ☐ Shunt

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

North Latitude	40	°	30	'	5.30	"	West Longitude	111	°	26	'	55	"
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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.  
1

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

Exhibit No.  
2

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 purpose of the instant application is to update the tower base impedance, base current, and coordinates (NAD 27)

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

The change in the antenna impedance is likely the result of more accurate instrumentation, and the installation of FM translator

K233DP (file number BNPFT-20171201ANO)

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) Stephen Wilde	Signature (check appropriate box below)
Address (include ZIP Code) 8024 Lesser Way, Citrus Heights CA 95621	Date 1/30/2018
	Telephone No. (Include Area Code) 530-574-3474

☐ Technical Director

☐ Registered Professional Engineer

☐ Chief Operator

☒ Technical Consultant

☐ Other (specify)

# **Exhibit 1**

**KTMP Heber City, UT**

**FIN: 14478**

**1340 KHz**

**January 31, 2018**

Stephen Wilde  
Electrical/RF Engineer  
SWE Services, LLC  
steve@sweservices.net

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## Introduction

The licensee for KTMP 1340 KHz (file number BL-19811120AF) is the Air-Free Wireless, Inc. The 302-AM application is being filed to update the base impedance, base current, and tower coordinates (NAD 27).

## Test Equipment

- Potomac Instruments Field Strength Meter Type: FIM-41 Serial # 871
- Delta OIB-3 Impedance Bridge Serial# 1130

## Summary

After the installation of the K233DP (file number BNPFT-20171201ANO) the base impedance was measured to be  $Z = 35.5R + 64.3j$ . Therefore, the resulting base current is 5.3 amps.

The licensee determined during the process of constructing K233DP that the KTMP AM tower coordinates differ by 3.3 seconds. The Form 302-AM is being filed to update and correct the base impedance, base current, and tower coordinates(NAD 27).

The drawings provided in this exhibit demonstrate the current configuration of the KTMP AM antenna system.

Affidavit

STATE OF CALIFORNIA  
Sacramento County

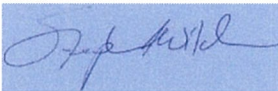
I, Stephen Wilde, do affirm that:

1. I have been engaged in the RF engineering and installation of broadcast facilities since 2005.
2. I hold Bachelor of Science degree in Electrical Engineering from DeVry University Chicago, IL.
3. I further declare, under penalty of perjury, that the statements contained herein are true and correct to the best of my knowledge.

Stephen Wilde  
January 31, 2018

1/31/2018

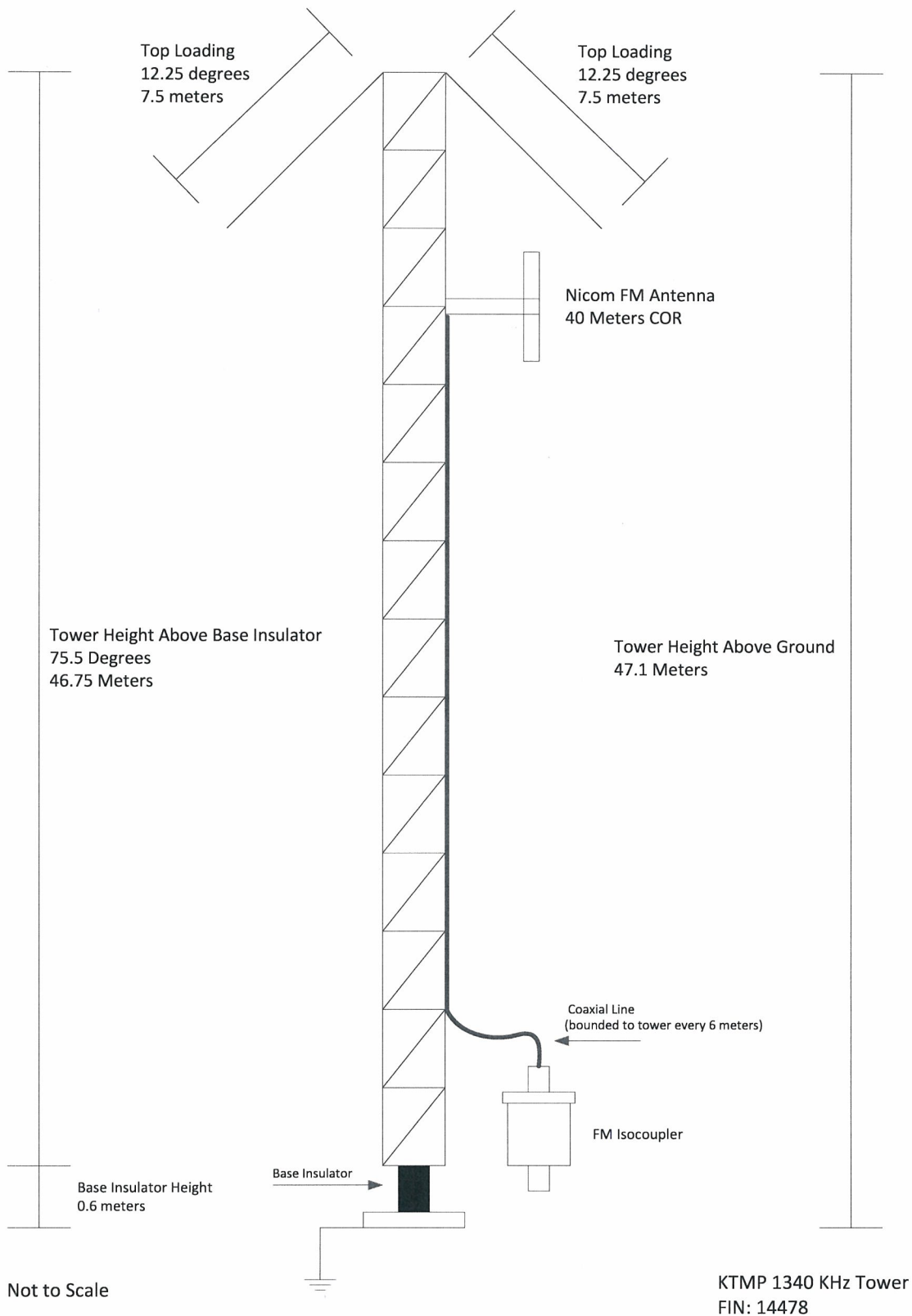
**X**



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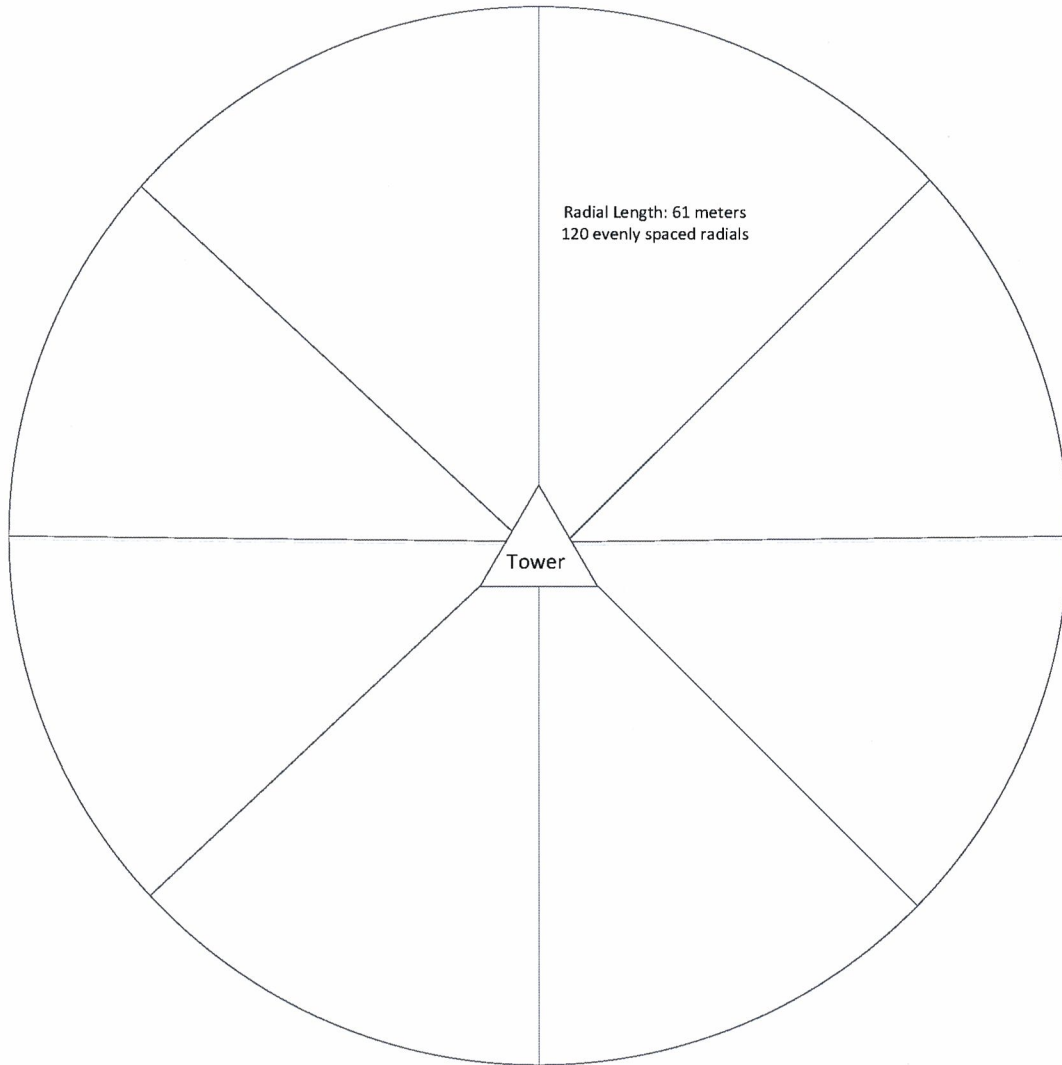
Stephen Wilde  
RF Engineer  
Signed by: swilde

**Tower Vertical Drawing**





**Tower Radial Drawing**



Not to Scale

KTMP 1340 KHz Tower  
FIN: 14478