

FM TRANSLATOR APPLICATION
CHANNEL 274 (102.7 MHz)
The Dalles, Oregon

PRIMARY STATION:
KYYT (FM) Channel 272 (102.3 MHz)
Goldendale, Washington

KENNETH WILLIAMS, Jr., P.E.
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SECTION III PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name Kenneth Williams, Jr., P.E.		Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer	
Signature <i>Kenneth Williams, Jr., P.E.</i>		Date July 23, 2002	
Mailing Address P.O. Box 7703			
City Tacoma		State or Country (if foreign address) WA	ZIP Code 98407
Telephone Number (include area code) (253) 756-0205		E-Mail Address (if available) -----	

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 STATE LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)),
AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

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EXPIRES: 7-15-2003

Section III-A - Engineering

TECHNICAL SPECIFICATIONS

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

TECH BOX

1. Channel: 274
2. Primary Station:

Call Sign KYYY	City Goldendale	State WA	Channel 272 C2
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3. Delivery Method:

☒ Off-air
 ☐ Microwave
 ☐ Satellite
 ☐ Via _____
 ☐ Other
4. Antenna Location Coordinates: (NAD 27)

45 ° 42 ' 44 "

☒ N
☐ E

☐ S Latitude
☒ W Longitude
5. Antenna Structure Registration Number: 1058195

☐ Not applicable
 ☐ FAA Notification Filed with FAA
6. Antenna Location Site Elevation Above Mean Sea Level: 959 meters
7. Overall Tower Height Above Ground Level: 60 meters
8. Height of Radiation Center Above Ground Level:

1018 meters (H)

1018 meters (V)
9. Effective Radiated Power:

.010 kW (H)

.010 kW (V)
10. Transmitting Antenna:

☒ Nondirectional
 ☐ Directional "Off-the-shelf"
 ☐ Directional composite

Manufacturer Shively Labs	Model 6812
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Rotation: _____ ° ☐ No rotation

Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value
0		60		120		180		240		300	
10		70		130		190		250		310	
20		80		140		200		260		320	
30		90		150		210		270		330	
40		100		160		220		280		340	
50		110		170		230		290		350	
Additional Azimuths											

11. **For FM Boosters and Fill-in translators only.** Applicant certifies that the proposal is for a fill-in translator or booster station entirely within the primary station's protected contour.

☒ Yes ☐ No

See Explanation
in Exhibit No.

☐ N/A

12. **Interference.** The proposed facility complies with all of the following applicable rule sections. Check all that apply.

☒ Yes ☐ No

See Explanation
in Exhibit No.

Overlap Requirements.

- a. ☒ 47 C.F.R. Section 74.1204.
Exhibit Required.

Exhibit No.
E

Television Channel 6 Protection.

- b. ☐ 47 C.F.R. Section 74.1205 with respect to station(s): _____
Exhibit Required.

Exhibit No.

13. **Unattended operation.** Applicant certifies that unattended operation is not proposed, or if this application proposes unattended operation, the applicant certifies that it will comply with the requirements of 47 C.F.R. Section 74.1234.

☒ Yes ☐ No

See Explanation
in Exhibit No.

14. **Multiple Translators.** Applicant certifies that it does not have any interest in an application or an authorization for an FM translator station that serves substantially the same area and rebroadcasts the same signal as the proposed FM translator station.

☒ Yes ☐ No

See Explanation
in Exhibit No.

15. **Environmental Protection Act.** Applicant certifies that the proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (i.e., the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine compliance through the use of the RF worksheets in Appendix A, an Exhibit is required.

☒ Yes ☐ No

See Explanation
in Exhibit No.
E-8

By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

PREPARER'S CERTIFICATION ON PAGE 4 MUST BE COMPLETED AND SIGNED.

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EXHIBIT No. E- 1

TABULATED TRANSLATOR CONTOUR DATA

Terrain data used: NGDC 30-second database.

DISTANCES TO CONTOURS (Kilometers) :

Frequency: 102.7000 MHz
Coordinates: N 45 42 44 W 121 6 50
F(50,50) Curves Number of Contours: 1

AZ (deg)	HAAT (m)	ERP (dBk)	CONTOUR LEVELS (dBu): 60.0
.0	495	-20.00	12.6
30.0	542	-20.00	13.2
60.0	445	-20.00	12.0
90.0	503	-20.00	12.7
120.0	659	-20.00	14.4
150.0	768	-20.00	15.4
180.0	817	-20.00	15.7
210.0	819	-20.00	15.7
240.0	549	-20.00	13.2
270.0	695	-20.00	14.7
300.0	527	-20.00	13.0
330.0	497	-20.00	12.6

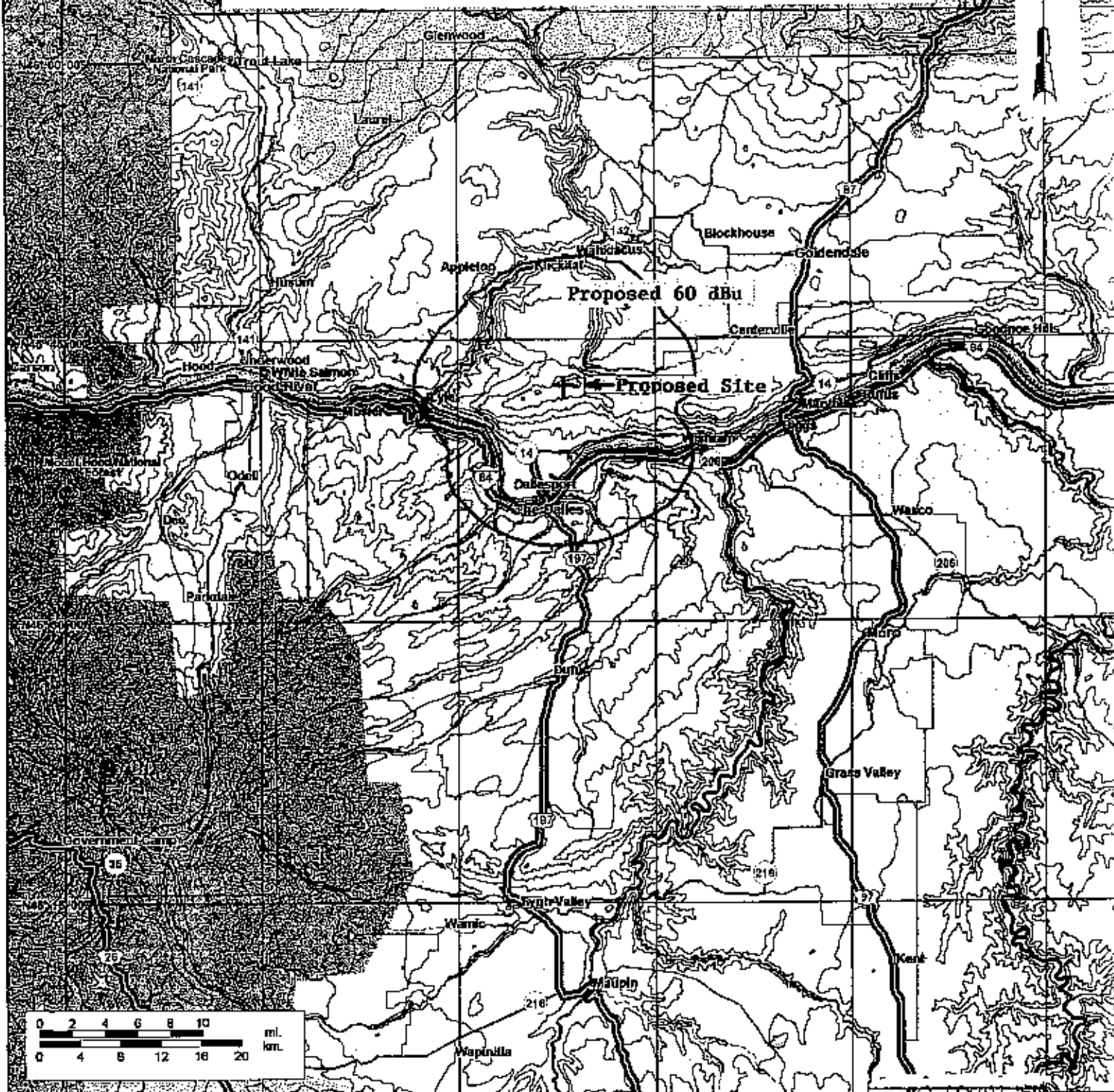
DISTANCES TO CONTOURS (Kilometers) :

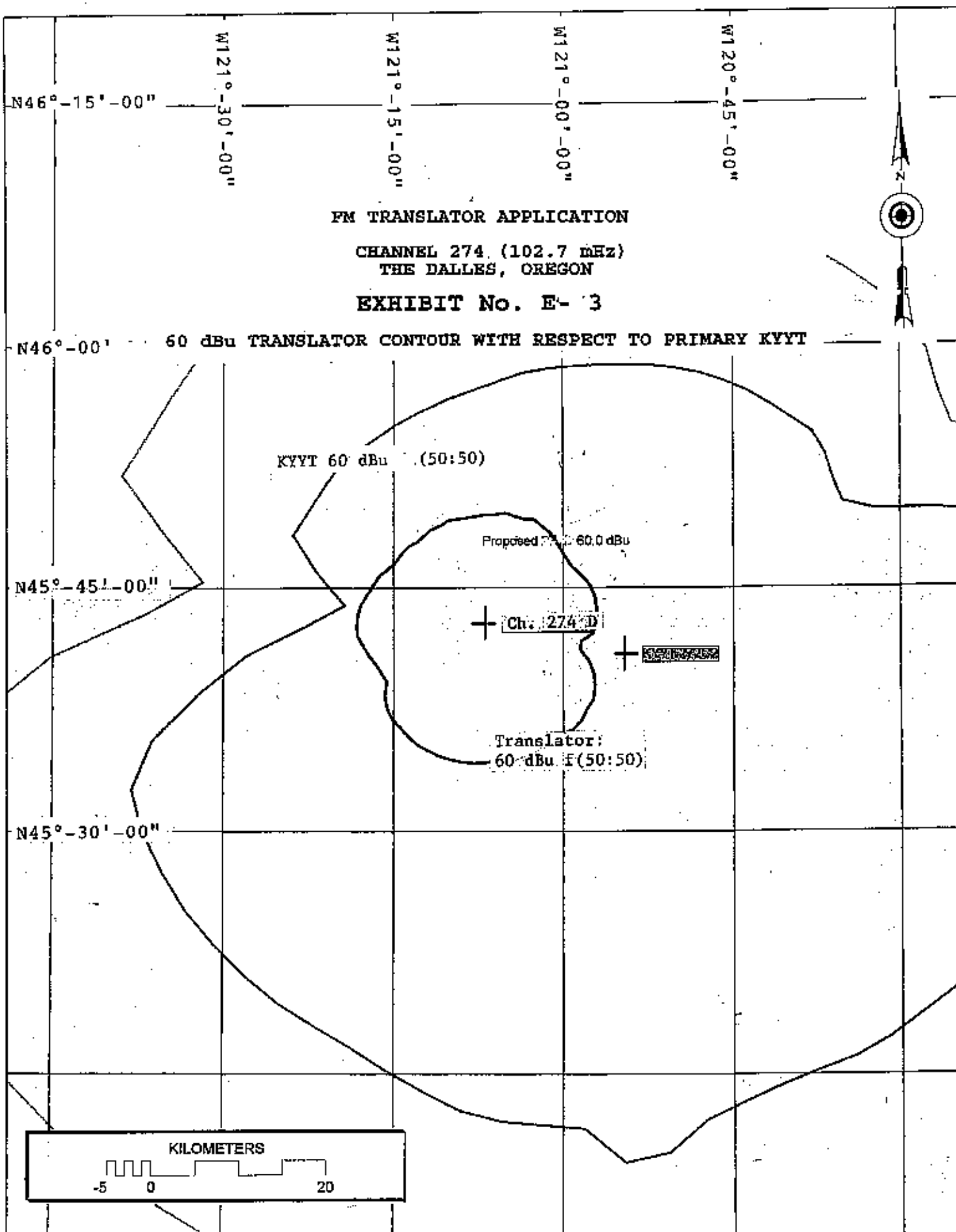
Frequency: 102.7000 MHz
Coordinates: N 45 42 44 W 121 6 50
F(50,10) Curves Number of Contours: 4

AZ (deg)	HAAT (m)	ERP (dBk)	CONTOUR LEVELS (dBu): 100.0 80.0 54.0 40.0			
.0	495	-20.00	.0	2.1	19.2	44.8
30.0	542	-20.00	.0	2.1	20.2	47.5
60.0	445	-20.00	.0	2.1	18.1	41.8
90.0	503	-20.00	.0	2.1	19.4	45.3
120.0	659	-20.00	.0	2.2	22.7	52.5
150.0	768	-20.00	.0	2.2	24.9	56.5
180.0	817	-20.00	.0	2.2	25.8	58.1
210.0	819	-20.00	.0	2.2	25.8	58.2
240.0	549	-20.00	.0	2.1	20.4	47.9
270.0	695	-20.00	.0	2.2	23.4	53.8
300.0	527	-20.00	.0	2.1	19.9	46.7
330.0	497	-20.00	.0	2.1	19.3	44.9

CHANNEL 274 (102.7 mHz)
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PROPOSED TRANSLATOR 60 dBu CONTOUR COVERAGE





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EXHIBIT No. E- 3

N46°-00' 60 dBu TRANSLATOR CONTOUR WITH RESPECT TO PRIMARY KYYT

KYYT 60 dBu (50:50)

Proposed 60.0 dBu

+ Ch. 274 D

Translator:
60 dBu f(50:50)

KILOMETERS

-5

0

20

FM TRANSLATOR APPLICATION

CHANNEL 274 (102.7 mHz)
THE DALLES, OREGON

EXHIBIT No. E- 4

PROPOSED TRANSLATOR f(50:10) CONTOUR DATA.

