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°ÆH0²Š           GUÉ7~ê¨•kìph\*Ç  
åÁgV•Æ1^gÆæRF`èrqÓVP¨?ð£¨~ÞÎD¥Ý\$hlîãÆf»'Ê,-•'µ•¤)¥•Û´ç‡•!ë¨r`æ•p-  
¤øÃ)Úê^KaÚwŠ5•Â`ÆŸ,²'`t1î\*\_Ýô=:yE,...•¿å†×#6:NKi³î¹wzH´9•kqç

ðè÷y`0K-cBÿëp\$•Ð2À••Ü"m;+``I•P~M"öŸ2ç/•NiiÂöŸ wŸŸZtjq``(:• ÖÛ1•ü@•@ó,•P•ª³µ

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$$/\bullet \mathfrak{x} = \mathfrak{q}\tilde{n}e^{\wedge \mathbb{J}^{\frac{1}{4}} \bullet \mathfrak{q}^{\circ}} \cdot [\bullet \mathfrak{p} \bullet \bullet \hat{E}r^a 6 \sim \hat{e}^{\prime \prime} \mathfrak{a} \mathfrak{x} \neg \acute{o} \tilde{N}$$



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`YThe•contributions•of•the•FM•facilities•were•determined•using•the•FMModel•progr  
am. ••The•EPA•single•bayĐ´•`  
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`àThis•level•of•field•occurs•at•26•meters•out•from•the•base•of•the•tower•and•is•
considered•worst•case.`.`-``````.`.`.`
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am. ••The•EPA•single•bayĐ´•`  
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`àThis•level•of•field•occurs•at•26•meters•out•from•the•base•of•the•tower•and•is•
considered•worst•case.`.`-``````.`.`.`
``.`.`````d``Ÿ
.`f'-``~``^`!.`ŸŸ
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`Ÿ>ñ^^``ñò

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1`<sup>^</sup> •`Đó<sup>®</sup>

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Since the WALVF auxiliary antenna is mounted on an AM tower, the radio frequency

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•••••Radiation worksheet could not be used to demonstrate compliance with the Commission's rules. Therefore, a study has been made to determine whether this proposal is in compliance with 47 C.F.R. § 1.1307 of the Commission's rules and with OET's Bulletin #65, dated August 1997 (Bulletin-), regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. This study considers all nearby stations and utilizes the appropriate formulas contained in the Bulletin. •••••

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`ÓEnvironmental•Analysisó



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`àThe•¢WALVf•auxiliary•antenna•tower•does•not•involve•the•use•of•high•intensity•white•lighting•(strokes)•in•a•residential•neighborhood...The•structure•is•not•located•in•an•officially•designated•wilderness•area•or•wildlife•preserve,•nor•does•it•threaten•the•existence•or•habitat•of•endangered•species...The•facility•does•not•affect•districts,•sites,•buildings,•structures•or•objects•significant•in•American•history,•architecture,•archaeology,•engineering•or•culture•that•are•listed•in•the•National•Register•of•Historic•Places,•or•are•eligible•for•listing,•nor•does•it•affect•Indian•religious•sites...Further,•the•site•is•not•located•in•a•floodplain•and•did•not,•to•the•knowledge•of•the•applicant,•require•significant•change•in•surface•features•(wetland•fill,•deforestation•or•water•diversion)•at•the•time•of•construction...`

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`ÓRadio•Frequency•Radiation•Studyó



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d • ⁂ • ÐÓ • ⁂ ⁂ ⁂ ⁂ ⁂ e • ⁂ • Óà •





`àThis.radio.frequency.radiation.study.is.being.conducted.to.determine.whether.t  
 hisIproposal.is.in.compliance.with.çOETç.Bulletin.Number.65,.dated.August.1997,.  
 regarding.humanIexposure.to.radio.frequency.radiation.in.the.vicinity.of.broadca  
 st.towers..This.study.considersIall.nearby.contributing.stations,.specifically.  
 the.co„located.AM.station.çWBACç,.and.utilizes.theIappropriate.formulas.contain  
 ed.in.the.çOETç.Bulletin.x`.f`.~~~~~.xÝ  
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`àThe•existing•¢WALV£•three•bay•antenna•system•will•be•mounted•with•its•center•o  
f•irradiation•94.0•meters•(308.0•feet)•above•the•ground•at•the•tower•location•and•  
will•operate•with•an•effective•radiated•power•of•0.11•kilowatts•in•the•horizonta  
l•and•vertical•planes•(circularly•polarized)•...•At•two•meters,•the•height•of•an•  
average•person,•above•the•ground•at•the•base•of•the•tower,•the•¢WALV£•antenna•sy  
stem•will•contributeñ~`ññ`~`ññ^`ñ,ñ~`ññ`~`ññ^`ñ•0.0005•¢mw£.x`•`f`•````•~`•  
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x..Based on exposure limitationsD'..`

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•`Dfor a controlled environment, 0.05% of the allowable ANSI limit is reached at two meters above the ground at the base of the tower. •For uncontrolled environments, 0.25% of the ANSI limit is reached at two meters above the ground at the base of the tower. Ìà.



`àCo,,located•with•the•¢WALV¢auxiliary•æantennañ~^^`ññ^^`ñ,ñ~^^`ññ^^`ññ^^`ñ>•  
is•AM•station•¢WBAC¢,.1340•kHz,İCleveland,•Tennessee. .•¢WBAC¢operates•with•a•no  
minal•power•of•1.0•kilowatt•with•a•156.9đ



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•`Dtower...A fence is installed a minimum distance of 2.0 meters out from the base of the tower...At this distance, the ÇWBAC facilities delivers 139.3 V/m and 0.172 A/m...This represents 22.7% of the electronic field for controlled environments and 10.5% of the magnetic field...For uncontrolled environments, this represents 22.65% of the electronic field and 10.52% of the magnetic field...The electronic field (in the controlled environment) is the worst case value for ÇWBAC £.İà.



`àô•#`†`^^`X^Tá`X`X`X^TáY`#`ôô•`†`^^`X^Tá`X`X`X^Tá-  
`ôCombining•the•contributions•of•çWALV£•and•çWBAC£,•a•total•of•22.95%•of•the•lim  
it•isĐ`•`  
`D•"



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•`Ðreached•at•the•fence•perimeter...Since•this•level•is•below•the•100%•limit•def  
ined•by•theİCommission,•the•¢WALVf•facility•is•believed•to•be•in•compliance•with  
•the•radio•frequencyİradiation•exposure•limits,•as•required•by•the•Federal•Communi  
cations•Commission...Further,•J.İL.•Brewer•Broadcasting•of•Cleveland,•¢LLCf•(ð  
-ðBBCð-

-ð)•has•posted•warning•signs•in•the•vicinity•ofİthe•tower•warning•of•potential•r  
adio•frequency•radiation•hazards•at•the•site...In•addition,•BBCİwill•reduce•the•  
power•of•the•proposed•facility•or•cease•operation,•in•cooperation•andİcoordinati  
on•with•other•tower•users,•as•necessary,•to•protect•persons•having•access•to•the  
•site,İtower•or•antenna•from•radio•frequency•radiation•in•excess•of•FCC•guidelin  
es...Based•on•theİabove•factors,•this•proposal•is•categorically•excluded•from•en  
vironmental•processing•pursuant•toİð`-ð1.1306•of•the•Commission's•rules.Ô•#`†`^`  
•`X^Tá``X^``X^``X^Tá4•``#`Ôñ~``ñæ`~~~~~  
~~~~~