

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

136 Main Street, Suite 401
New Britain, Connecticut 06051
Phone: 827-7682

August 24, 1990

Gloria Dibble Pond
Chairperson

COMMISSIONERS

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Executive Assistant

Captain Ronald P. Mikulka
Commanding Officer
Telecommunications Section
294 Colony Street
Meriden, CT 06450

RE: The Connecticut Division of State Police Notice of Intent to Modify an Exempt tower and Associated Equipment at the State Armory located on Broad Street, Hartford, Connecticut.

Dear Captain Mikulka:

At a meeting held on August 22, 1990, the Connecticut Siting Council acknowledged your notice of intent to modify an exempt tower site and associated equipment located on Broad Street, Hartford, Connecticut, pursuant to Section 16-50j-73 of the Regulations of State Agencies (RSA).

The proposed modifications are to be implemented as specified in your notice dated July 25, 1990. As proposed, the modifications are in compliance with the exception criteria specified in RSA 16-50j-72 as changes to an existing facility site that do not increase the tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary 6 decibels, and add radio frequency sending or receiving capability which increases the total radio frequency electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to Section 22a-162 of the Connecticut General Statutes.

The Council is pleased to note that the shared use of an existing tower serves the Council's long-term goal of protecting the public interest by avoiding proliferation of additional tower structures.

Please notify the Council upon completion of construction.

Very truly yours,

Gloria Dibble Pond
Chairperson

GDP/bd

4707E-5



STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC SAFETY
DIVISION OF STATE POLICE

July 25, 1990

RECEIVED

JUL 25 1990

CONNECTICUT
SITING COUNCIL

Honorable Gloria Dibble Pond
Chairperson
Connecticut Siting Council
136 Main Street, Suite 401
New Britain, Connecticut 06051

re: State Police CTS
Site No. 13.3 State Armory

Dear Chairperson Pond:

Enclosed please find an original and 20 copies of a Notice of Intent to Erect Exempt Telecommunications Tower and Associated Equipment pursuant to Council Reg. Sec. 16-50j-73 for Council review.

Sincerely,

Handwritten signature of Captain Ronald P. Mikulka in cursive.

Captain Ronald P. Mikulka
Commanding Officer
Telecommunications Section

Enclosures

RPM/dc

ORIGINAL

RECEIVED

JUL 25 1997

CONNECTICUT
SITING COUNCIL

STATE OF CONNECTICUT

SITING COUNCIL

Notice of Intent to Erect Exempt
Telecommunications Associated Equipment

Pursuant to Conn. Gen. Stat. 16-50g et seq. and Sec 16-50j-79 of the Regulations of the Connecticut Siting Council, the Connecticut Division of State Police hereby gives notice of its intent to erect exempt telecommunications associated equipment at the State Armory located on Broad Street, Hartford, CT.

The site is currently being utilized as an active telecommunications facility. The Division of State Police proposes to retain the building without change as depicted in the Site Plan Drawing O13.3-200 attached in Attachment A. Equipment on the existing building includes 6 antennas: 1 grid dish is used by the Nuclear Emergency Communications System (NECS) and 5 whip antennas used by the Office of Emergency Management (DEM). At present, the Division of State Police intends to add 1 additional antenna: 1 solid dish antenna to be used by the Division of State Police as shown in the Site Elevation Drawing O13.3-510 attached in Attachment B. After testing, the current grid dish antenna will be removed. The near term projected maximum loading specifications are listed in Attachment C. This project is part of a Division of State Police state wide effort to upgrade its equipment and implement a modern Connecticut

Telecommunications System (CTS) for Troopers and public safety, and to share tower space with other users.

The Division of State Police believes that this project is exempt from the need to obtain a Certificate of Environmental Compatibility and Public Need pursuant to Siting Council Reg. Sec. 16-50-j-72(b) for the following reasons.

1. Existing Tower Site

The proposed location is currently being utilized as a telecommunications facility and is supporting 6 antennas.

2. Site Boundaries

As depicted on the attached site plan, the boundaries of the tower site will not be extended.

3. Tower Height

The existing height of the structure will not change.

4. Noise Levels

The proposed replacement will not increase noise levels at the existing facility by six decibels or more. The only noise associated with Division of State Police equipment will be from air conditioning and stand-by power generator, when in use.

5. Radiation Power Density

The radio frequency sending or receiving capability of the facility will not increase the total radio frequency electromagnetic radiation power density measured at the tower site boundary

to or above the standard considered by the State Department of Environmental Protection (DEP).

Although the State DEP is in the process of promulgating standards, it is authorized to adopt the standards recommended by the American National Standards Institute (ANSI). The current ANSI Standard applicable to the proposed Division of State Police facility and the total radio frequency electromagnetic radiation power density calculated for the proposed tower site boundary are set forth in Attachment D.

CONCLUSION

For all the above stated reasons, the Division of State Police requests the Siting Council to rule that this notice is in compliance with the exception criteria for changes to an existing facility pursuant to Reg. Sec. 16-50j-72(b).

Dated at Meriden, CT, this 25th day of July, 1990.

by:

Captain Ronald P. Mikulka

Captain Ronald P. Mikulka
Commanding Officer
Telecommunications Section
294 Colony Street
Meriden, CT 06450
tel. (203) 238-6570

CERTIFICATION

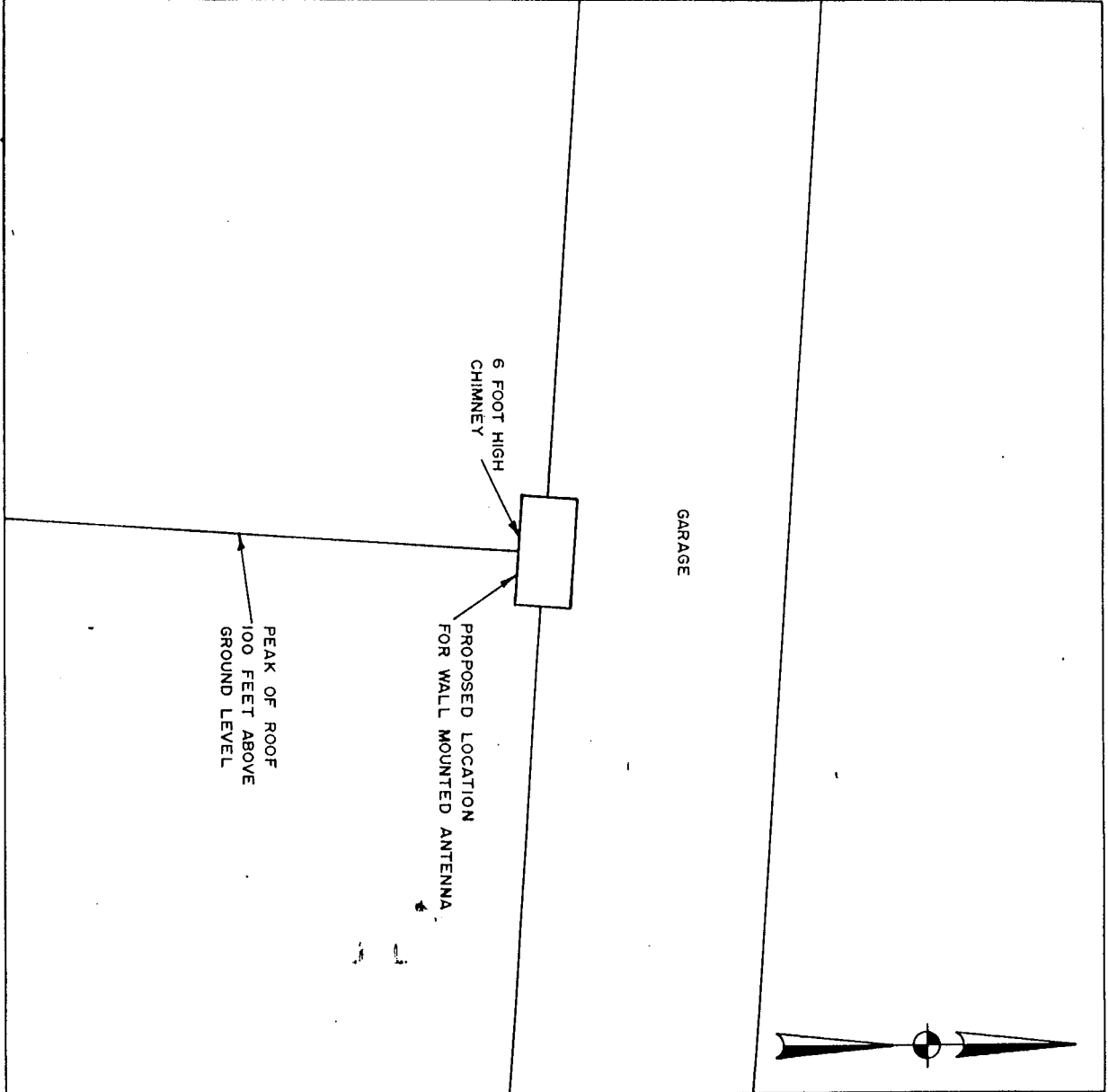
The undersigned hereby certifies that a copy of the foregoing Notice of Intent to Erect a Exempt Telecommunications Associated Equipment was mailed this 25TH day of July, 1990, to the below named elected official in Hartford, CT, pursuant to Reg. Sec. 16-50j-73:

Honorable Carrie Saxon Perry
Mayor
Municipal Building
550 Main Street
Hartford, CT 06103

by: Captain Ronald P. Mikulka

Captain Ronald P. Mikulka
Commanding Officer
Telecommunications Section
294 Colony Street
Meriden, Connecticut 06450
tel. (203) 238-6570

ATTACHMENT A

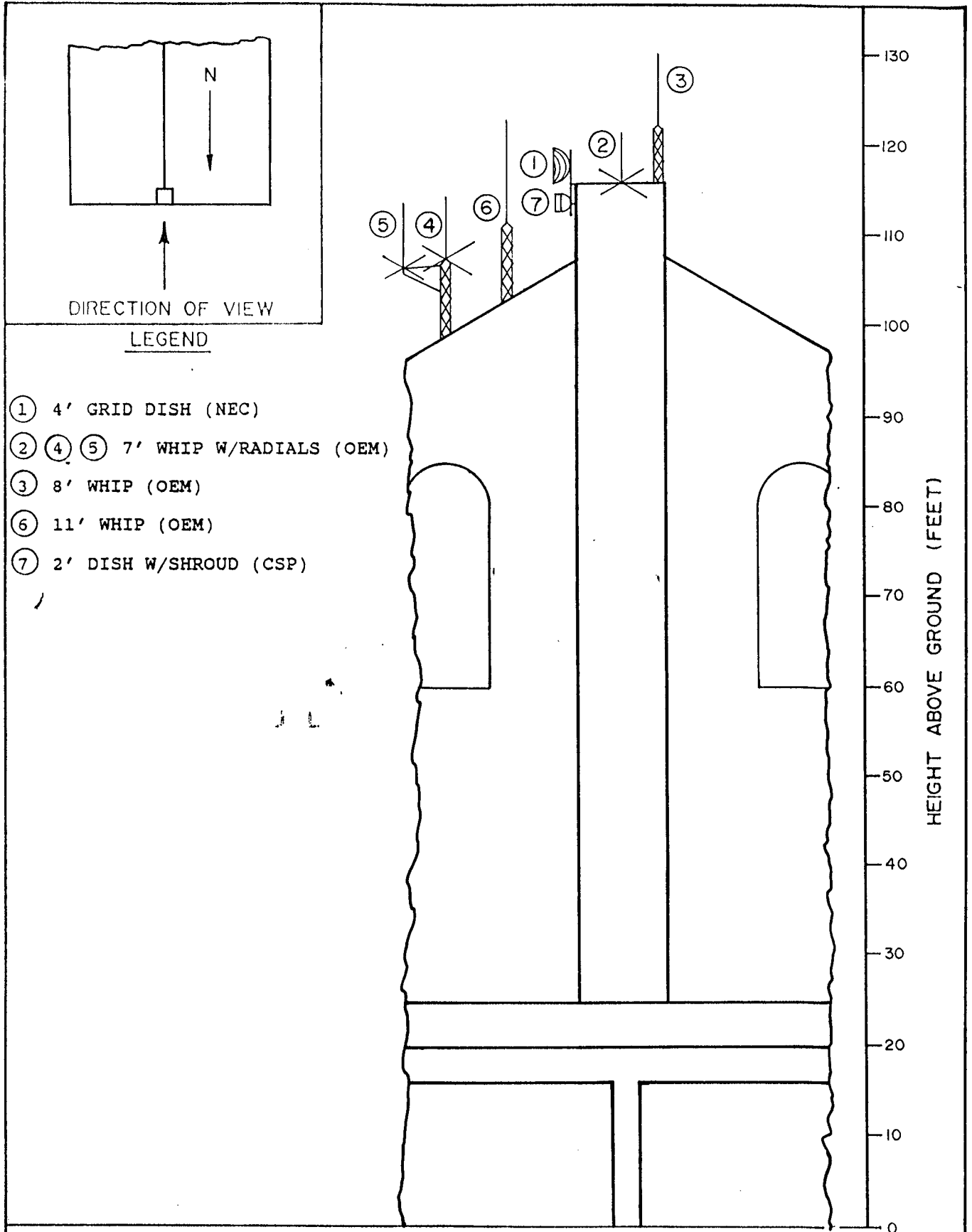


- NOTES:
1. ARROW INDICATES TRUE NORTH.
 2. ALL DIMENSIONS ARE IN FEET.

REV	DESCRIPTION	DATE	APP.
DRAWN WLF		DATE 5/4/90	
DESIGNED EHW		DATE 5-4-90	
CHECKED JCM		DATE 5/4/90	
PROJECT APPROVED		DATE 5-4-90	
APPROVED FOR			
APPROVED FOR			

		DESCRIPTION		DATE	APP.
T-CAS CORP.		HARTFORD ARMORY			
SITE		SITE PLAN			
SIZE	PROJECT	DRAWING NUMBER	REV.		
B	CTS	013.3 - 200	0		
SCALE 0 5 10 20 FEET			SHEET 1 of 1		

JOHN L. PARENTS & CO., INC.



TITLE		SITE ELEVATION		SITE		HARTFORD ARMORY		T-CAS CORP.	REV.
DESIGNED		DRAWN		CHECKED		REVISED		DRAWING NO.	
JCM cm	3/26/90	SAK	2/26/90	EHW e(hw)	3-26-90			13.3-510	

ATTACHMENT C

RADIO/ANTENNA SYSTEMS DATA

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SITE NAME:
TOWER HEIGHT:HARTFORD ARMORY
116 FEETPREPARED BY: T-CAS Corp
ON DATE: 04-04-1990

No	OPERATING FREQUENCY (MHz)	TRANSMIT POWER (WATTS)	ANTENNA				ERP (W)
			HEIGHT (FEET)	TYPE	VERTICAL SIZE (FT)	GAIN (dB)	
1	2183.200	1	118	GRID DISH	4	26.4	264
2	45.600	250	114	WHIP WITH RADIALS	7	0.0	250
3	450.000	40	122	WHIP	8	5.0	126
4	47.300	100	107	WHIP WITH RADIALS	7	0.0	100
5	50.000	0	107	WHIP WITH RADIALS	7	0.0	0
6	145.000	25	111	WHIP	11	0.0	25
7	18700.000	1	114	SOLID DISH W/SHROUD	2	39.0	4839

- NOTES: 1. TRANSMIT POWER ENTRIES SHOWN AS '5 x 25' SHOULD BE INTERPRETED AS '5 TRANSMITTERS, EACH HAVING A POWER OF 25 WATTS'.
ENTRIES OF '0' MEAN 'RECEIVE ONLY' - i.e. NO TRANSMITTER.
ALL OTHER ENTRIES REFER TO ONE TRANSMITTER WITH THE POWER SHOWN.
2. ERP (EFFECTIVE RADIATED POWER) IS THE PRODUCT OF ALL TRANSMITTER POWERS AND THE NUMERICAL VALUE OF THE GAIN (ANTILOG OF dB) RELATIVE TO A DIPOLE ANTENNA.

POWER DENSITY ANALYSIS

Sheet 1 of 3

 =====
 AT THE TOWER BASE, FOR EACH RADIO/ANTENNA SYSTEM

 SITE NAME: HARTFORD ARMORY
 TOWER HEIGHT: 116 FEET

 PREPARED BY: T-CAS Corp
 ON DATE: 04-04-1990

No	OPERATING FREQUENCY (MHz)	EIRP (WATTS)	DISTANCE TO BASE OF TOWER (FEET)	LIMIT OF SAFE EXPOSURE (MW/SQ-CM)	AT THE BASE OF THE TOWER	
					POWER DENSITY (MW/SQ-CM)	PERCENT OF SAFE LIMIT
1	2183.200	433	118	5.000	0.0000052	0.0001
2	45.600	410	118	1.000	0.0010174	0.1017
3	450.000	208	126	1.500	0.0004476	0.0298
4	47.300	164	111	1.000	0.0004601	0.0460
5	50.000	0	111	1.000	0.0000000	0.0000
6	145.000	41	117	1.000	0.0001035	0.0103
7	18700.000	7939	114	5.000	0.0000084	0.0002

TOTAL PERCENT OF SAFE LIMIT FOR ALL 7 RADIO SYSTEMS = 0.1882

- NOTES: 1. THE 'LIMITS OF SAFE EXPOSURE' ARE CALCULATED IN ACCORDANCE WITH THE SAFETY LEVELS DEFINED IN ANSI STANDARD C95.1-1982, WHICH WAS ADOPTED BY THE CONNECTICUT LEGISLATURE INTO THE CONNECTICUT GENERAL STATUTES, SECTION 22a-162, IN 1984.
2. POWER DENSITIES ARE CALCULATED IN ACCORDANCE WITH THE METHODS DEFINED IN FCC DOCUMENT 'OST BULLETIN NO. 65', OCTOBER 1985.
3. EIRP (EFFECTIVE ISOTROPICALLY RADIATED POWER) REFERENCES THE RADIATED POWER TO A POINT SOURCE, WHICH YIELDS POWERS 1.6406 TIMES HIGHER THAN ERP (SEE TABLE IN SECTION 13-F).

POWER DENSITY ANALYSIS

Sheet 2 of 3

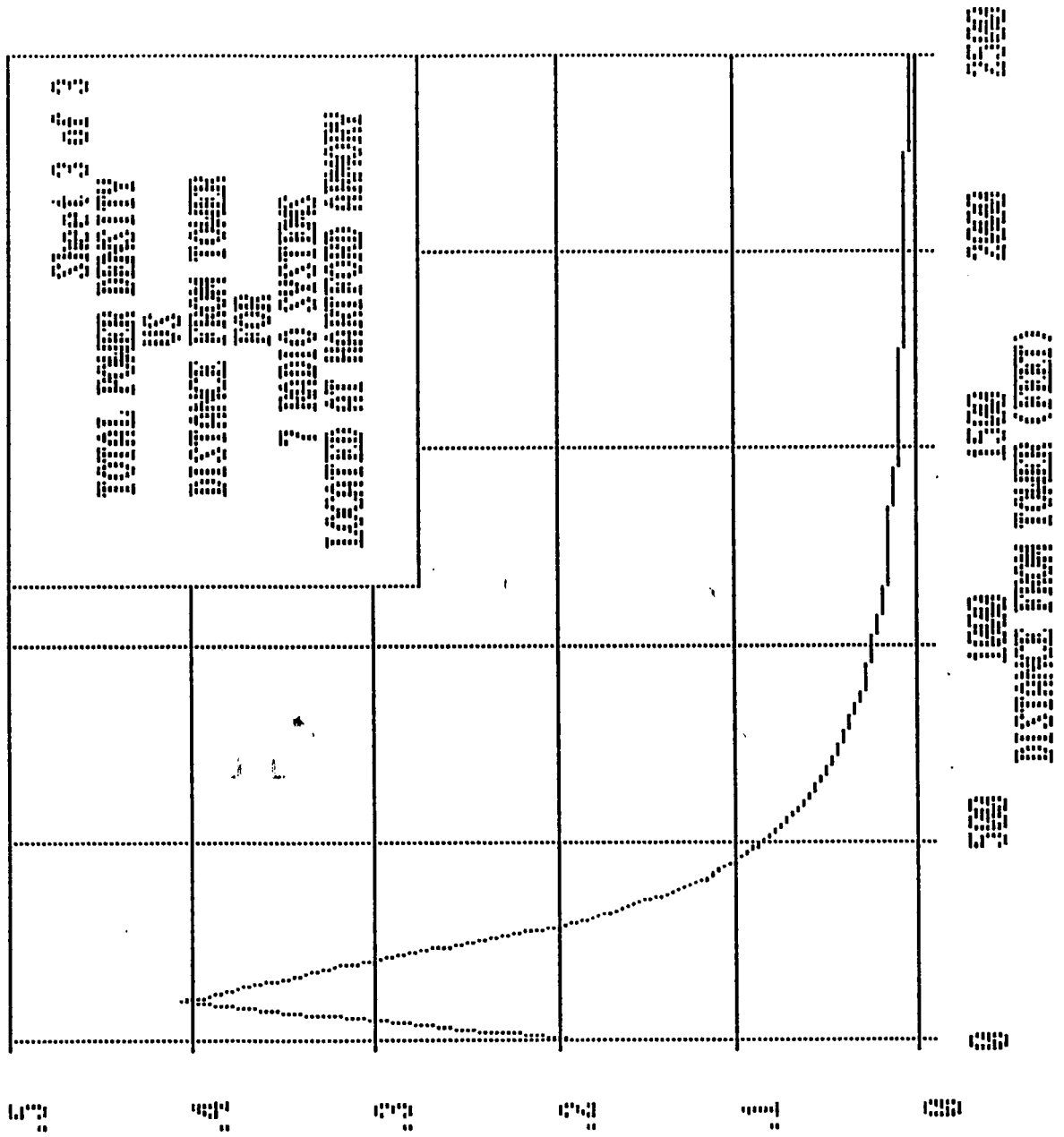
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POWER DENSITY (% OF SAFE LIMIT) vs DISTANCE FROM THE TOWER BASE

SITE NAME:	HARTFORD ARMORY	PREPARED BY:	T-CAS Corp
TOWER HEIGHT:	116 FEET	ON DATE:	04-04-1990

DISTANCE (FEET)	POWER DENSITY (% OF SAFE LIMIT)

0	0.1882
100	0.4058
200	0.3050
300	0.1823
400	0.1212
500	0.0852
600	0.0626
700	0.0477
800	0.0374
900	0.0301
1000	0.0247
1100	0.0206
1200	0.0175
1300	0.0150
1400*	0.0130
1500	0.0114
1600	0.0101
1700	0.0090
1800	0.0081
1900	0.0073
2000	0.0066
2100	0.0060
2200	0.0055
2300	0.0051
2400	0.0047
2500	0.0043



Source: Bureau of Economic Analysis, Department of Commerce, National Income and Product Accounts for the United States, Table 1.1.1, 1981 Edition.



STATE OF CONNECTICUT
CONNECTICUT HISTORICAL COMMISSION

July 19, 1990

Ms. Gloria Dibble Pond
Connecticut Siting Council
136 Main Street
Suite 401
New Britain, CT 06051

RECEIVED

JUL 25 1990

CONNECTICUT
SITING COUNCIL

SUBJECT: Microwave Antennas:
State Office Building
State Armory
Troup H
Hartford, CT

Dear Ms. Dibble Pond:

The Connecticut Historical Commission has reviewed the above-referenced projects and has determined that while they will have a visual impact on historic resources, there is no feasible or prudent alternative to the installations.

Please do not hesitate to contact Susan Chandler, CEPA Coordinator, should you have questions concerning these projects or our review.

Sincerely,

Dawn Maddox
Deputy State Historic
Preservation Officer

SRC:nlw

CC: Mr. Guy F. LaBella/Storch Associates



STATE OF CONNECTICUT
CONNECTICUT HISTORICAL COMMISSION

January 30, 1990

RECEIVED
JAN 31 1990
CONNECTICUT
SITING COUNCIL

Ms. Gloria Dibble Pond
Chairperson
Connecticut Siting Council
136 Main Street, Suite 401
New Britain, CT 06051

SUBJECT: Microwave Towers:
State Office Building
165 Capitol Avenue
Hartford, CT

Connecticut State Police Headquarters - Troop H
100 Washington Street
Hartford, CT

State Armory
360 Broad Street
Hartford, CT

Dear Ms. Pond:

The Connecticut Historical Commission has reviewed the above-referenced projects and requests additional information concerning the dimensions and appearance of these towers in order to evaluate the potential impact on existing architectural resources.

Please do not hesitate to contact Susan Chandler, the Commission's Connecticut Environmental Protection Act Coordinator, should you have questions concerning this request.

Sincerely,

Dawn Maddox
Deputy State Historic
Preservation Officer

SRC:nlw