

TEXAS UTILITIES GENERATING COMPANY
SKYWAY TOWER • 400 NORTH OLIVE STREET, L.B. 81 • DALLAS, TEXAS 75201

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JOHN W. BECK
MANAGER-LICENSING

January 7, 1985

Director of Nuclear Reactor Regulation
Attention: Mr. B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION
DOCKET NOS. 50-445 AND 50-446
SEPARATION BETWEEN CLASS 1E CIRCUITS AND
PUBLIC ADDRESS SYSTEM SPEAKER OR AREA
RADIATION MONITORING DETECTOR WIRING,
ADDITIONAL INFORMATION

REF: (1) John W. Beck to B. J. Youngblood letter
of September 25, 1984 (TXX-4315)

Dear Sir:

Attached is a study that provides additional information to support
the submittal provided by reference (1).

Sincerely,

John W. Beck
John W. Beck

DRW:tls
Attachment

Distribution: Original + 40 copies

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SEPARATION OF CLASS 1E RACEWAY
FROM
PUBLIC ADDRESS SYSTEM SPEAKER WIRE
AND
AREA RADIATION MONITORING DETECTOR WIRE
STUDY

SPEAKER DETAILS

1.	Total number of speakers	270
2.	Total number of speakers without separation violations	143
3.	Total number of speakers with separation violations that at least maintain more than 12 inches between conduit and speaker cable	74
4.	Speakers with separation violations that do not maintain at least 12 inches between conduit and speaker cable	
	(a) Violations involving lighting system circuits (See Table I)	32
	(b) Violations involving other Class 1E System circuits (See Table II)	21

NOTE:

- (1) Lighting circuits fed from class 1E sources are routed in independent raceway systems and are not associated with other Class 1E systems.

REMOTE DETECTOR DETAILS

1.	Total number of detectors	50
2.	Total number of detectors without separation violations	30
3.	Total number of detectors with separation violations that at least maintain more than 12 inches between conduit and detector cable	16
4.	Detectors with separation violations that do not maintain at least 12 inches between conduit and detector cable	
	(a) Violations involving lighting system circuits (See Table III)	2
	(b) Violations involving other Class 1E System circuits (See Table IV)	2

NOTE:

- (1) Lighting circuits fed from class 1E sources are routed in independent raceway systems and are not associated with other Class 1E systems.

SPEAKER DETAILS
TABLE I
LIGHTING SYSTEM

<u>SPEAKER #</u>	<u>RACEWAY #</u>	<u>DISTANCE</u>
P-20	ESB1-36	8" H
P-4	ESB7-11	9" H
L-201	ESB8-10	11" V
P-24	ESB6-2	10" H
P-79	ESB10-10	10" H
P-87	ESB10-15	5" H
P-71	ESB10-15	5" H
P-65	ESB9-1	1" H
P-66	ESB10-4	0" - Touching
L-208	ESB10-8	3" H
	ESB9-2	3" H
P-85	ESB1-7	5" H
L-9	ESB2-42	7" V
P-17	ESB2-16, 18, 35	0" - Touching
L-18	ESB5-3	3" H
P-13	ESB2-25, 33	0" - Touching
L-92	EAB7-11	8" H
L-85	EAB5-2, 4, 6, 8, 10	7" H
L-135	EAB3-8	6" V
L-238	EAB3-10	4" H & 6" V
L-233	EAB4-15	6" H
L-236	EAB4-10	10" H
L-244	EAB3-6	6" V
L-240	EAB3-2	6" H & 8" V

SPEAKER DETAILS
 TABLE I
 LIGHTING SYSTEM
 (Continued)

<u>SPEAKER #</u>	<u>RACEWAY #</u>	<u>DISTANCE</u>
P-76	EAB4-2	1" H
L-239	EAB3-1	5" H & 9" V
B-19	EAB3-1	9" H
B-17	EAB2-6	7" V
L-259	EAB11-6	1" H
L-227	EAB-11, 9, 18	9" V
P-50	ECB1-8	1" H
P-79	EAB3-4	6" H
L-253	EAB4-4	1" V & 6" H

SPEAKER DETAILS
TABLE II
OTHER CLASS IE SYSTEMS

<u>SPEAKER #</u>	<u>RACEWAY #</u>	<u>DISTANCE</u>	<u>CABLE #</u>	<u>REMARKS</u>
L-84	C-13Ø13677	12" H	EØ104346	
L-84	C-12G02851	10" H	EG100615	
P-47	C-14Ø21458	7" V	EØ146392	
L-247	C-02Ø11642	3" H	EØ006960	
P-80	C-02Ø12284	7" H	EØ006962	
L-108	C-13G30413	10" H	EG131723	
WA-13	C-14Y30554	12" H	EY128284Z	
WA-13	C-14Y30553	9" H	EY128283Z	
L-158	C-04G21033	4" V & H	EG028511Z & EG028512Z	
L-156	C-14Ø19953	8" H	EØ136305Z & EØ136304	
L-161	C-14Y30536	6" V	EY128285Z & EY128282	
L-161	C-14B09362	9" V	EB128223Z	
L-161	C-14W30514	12" V	EW128197Z & EW12898Z	
L-161	C-14R16587	12" V	ER128138Z	
P-14	C-13Ø04870	2" V	AØ113522	Only Associated Circuit
L-13	C-12G03520	7" H	AG100606	Only Associated Circuit
L-13	C-13G04950	2" H	AG113523	Only Associated Circuit
L-16	C-13G12666	3" H	AG130692	Only Associated Circuit
P-23	C-14G20139	11" H	EG146149	
L-23	C-12Ø18727	10" V	EØ100823	
P-70	C-13Ø07712	7" H	EØ109798, AØ109968, EØ109960, EØ109959, EØ109966, EØ109965, EØ109967 & AØ145712	

SPEAKER DETAILS
 TABLE II
 OTHER CLASS IE SYSTEMS
 (Continued)

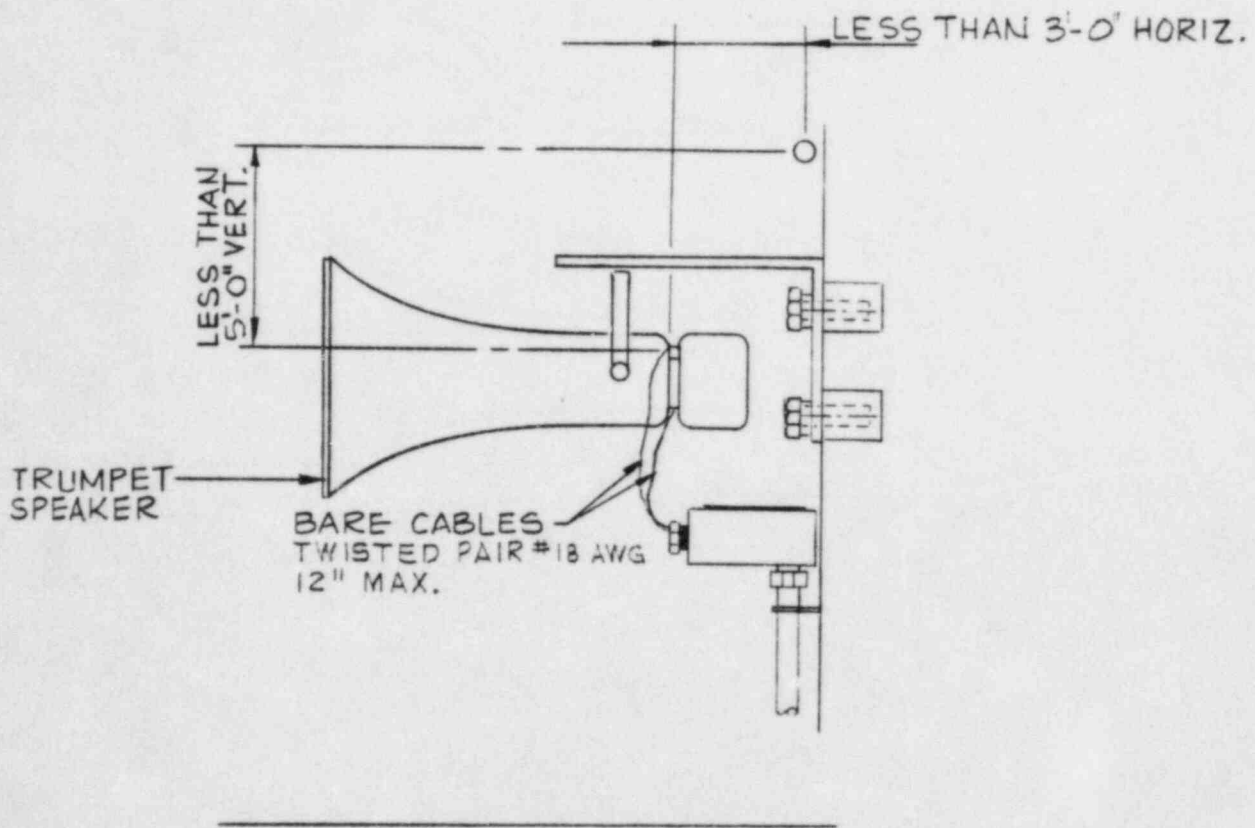
<u>SPEAKER #</u>	<u>RACEWAY #</u>	<u>DISTANCE</u>	<u>CABLE #</u>	<u>REMARKS</u>
P-64	C-13Ø07714	9" H	EØ111098, EØ111101, AØ109968, EØ109930, EØ109798, EØ109960, EØ109959, EØ109966, EØ109965, EØ109967 & AØ145712	
L-210	C-14G20188 C-13G21041	11" V 9" V	EG146168 & EG14617 EG105736	
L-173	C-24Ø11076	4" H	EØ246314 & EØ246315	
L-174	JB-2A-375Ø	6" H	EØ000945	
L-172	C-02G09821	11" H	EG000354	

REMOTE DETECTOR DETAILS
TABLE III
LIGHTING SYSTEM

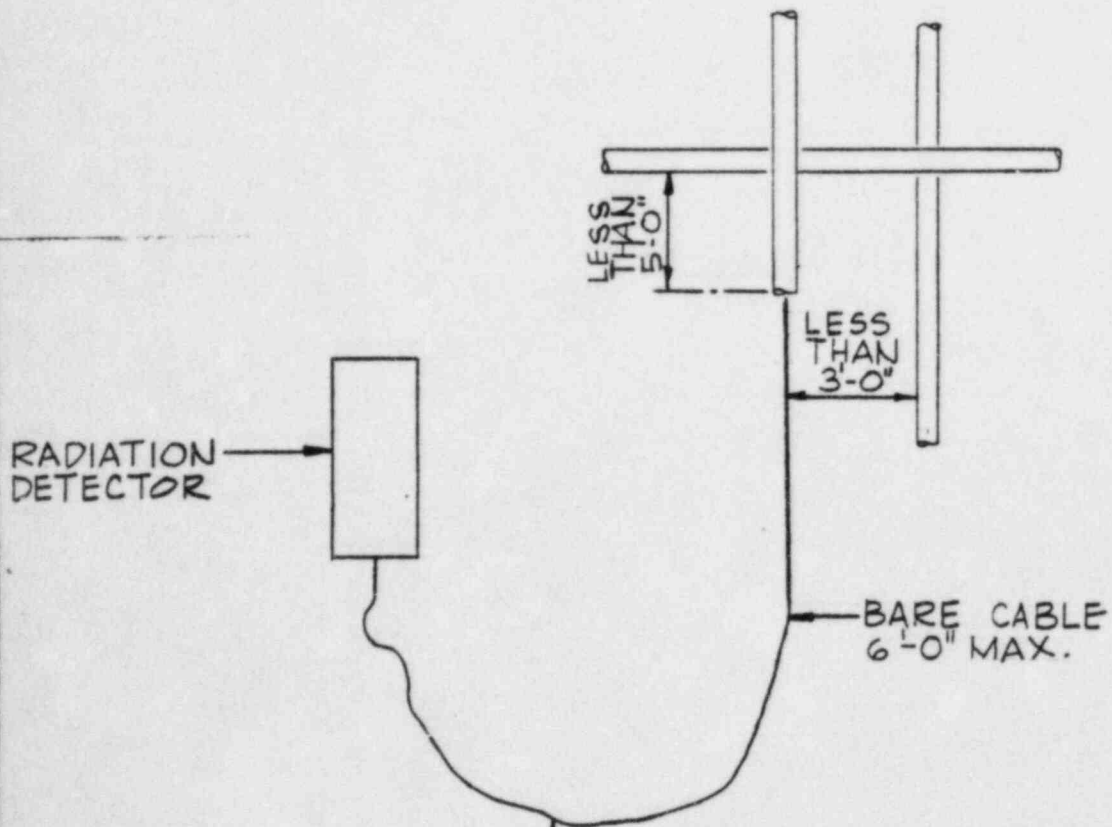
<u>SPEAKER #</u>	<u>RACEWAY #</u>	<u>DISTANCE</u>
1-RE-6292	ESB5-3	4" H
1-RE-6265A	EAB4-1	6" V

REMOTE DETECTOR DETAILS
TABLE IV
OTHER CLASS IE SYSTEMS

<u>DETECTOR #</u>	<u>RACEWAY #</u>	<u>DISTANCE</u>	<u>CABLE #</u>	<u>REMARKS</u>
1-RE-6298	C-13G12912	10" H	EG113632A	
1-RE-6299	C-14G30974	2" H	EG146151	
	C-14G20263	10" H	EG146151	
	C-14G21157	10" H	EG146218	



SPEAKER DETAIL



CABLE TYPE

- (1) GEIGER-MULLER TUBE DET. - 6/C #16 AWG
- (2) IONIZATION CHAMBER DET. - RG-59 COAX.

REMOTE DETECTOR DETAIL