May 23, 2000

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Cordially,

Sharon Colley
Callaway Plant
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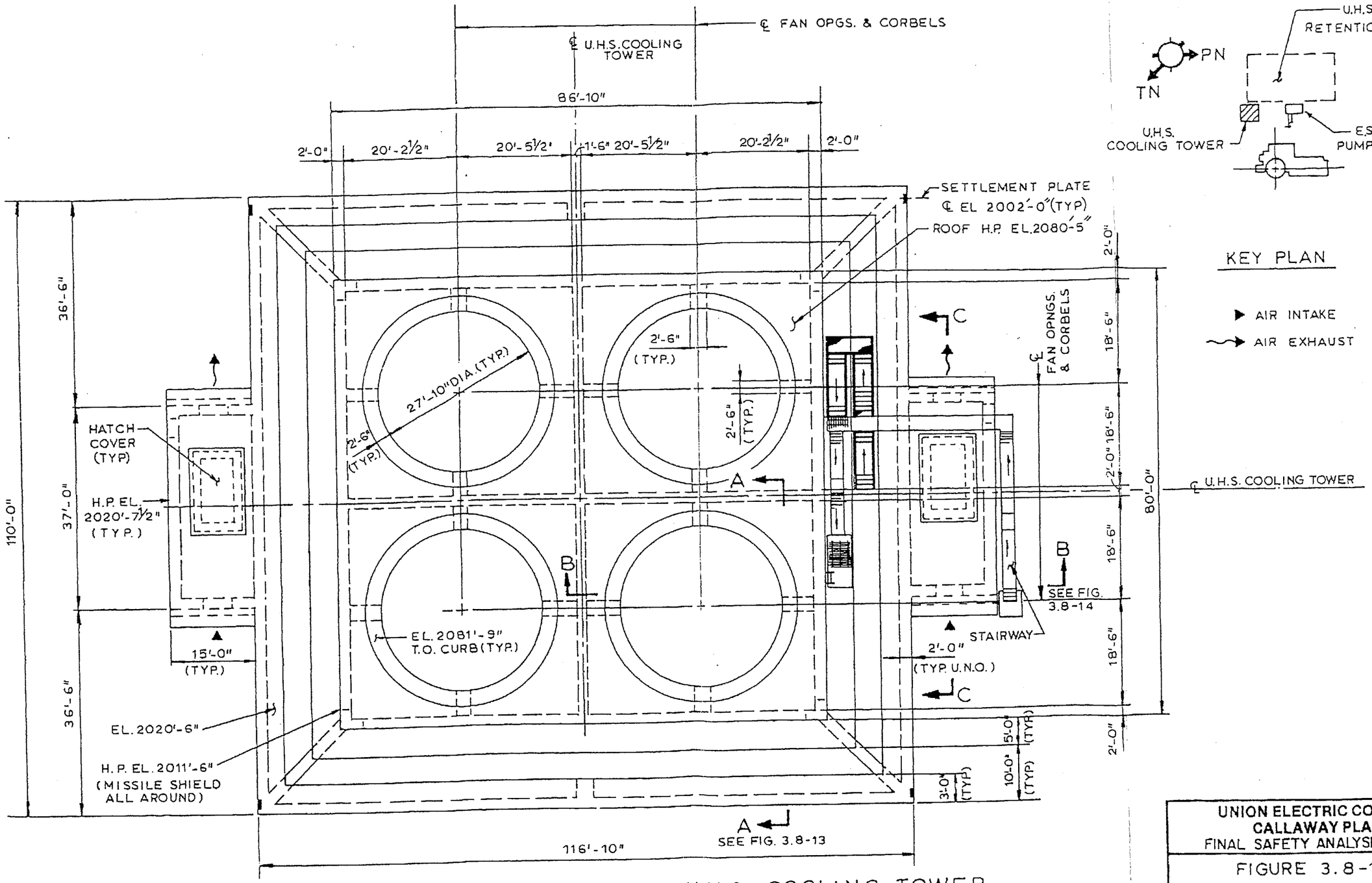
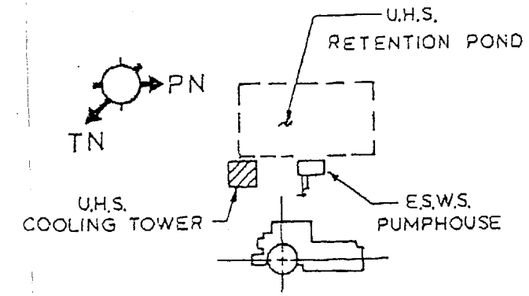


PLAN VIEW – U.H.S. COOLING TOWER



KEY PLAN

▶ AIR INTAKE

⇝ AIR EXHAUST

REV OL-11
5/00

UNION ELECTRIC COMPANY
CALLAWAY PLANT
FINAL SAFETY ANALYSIS REPORT

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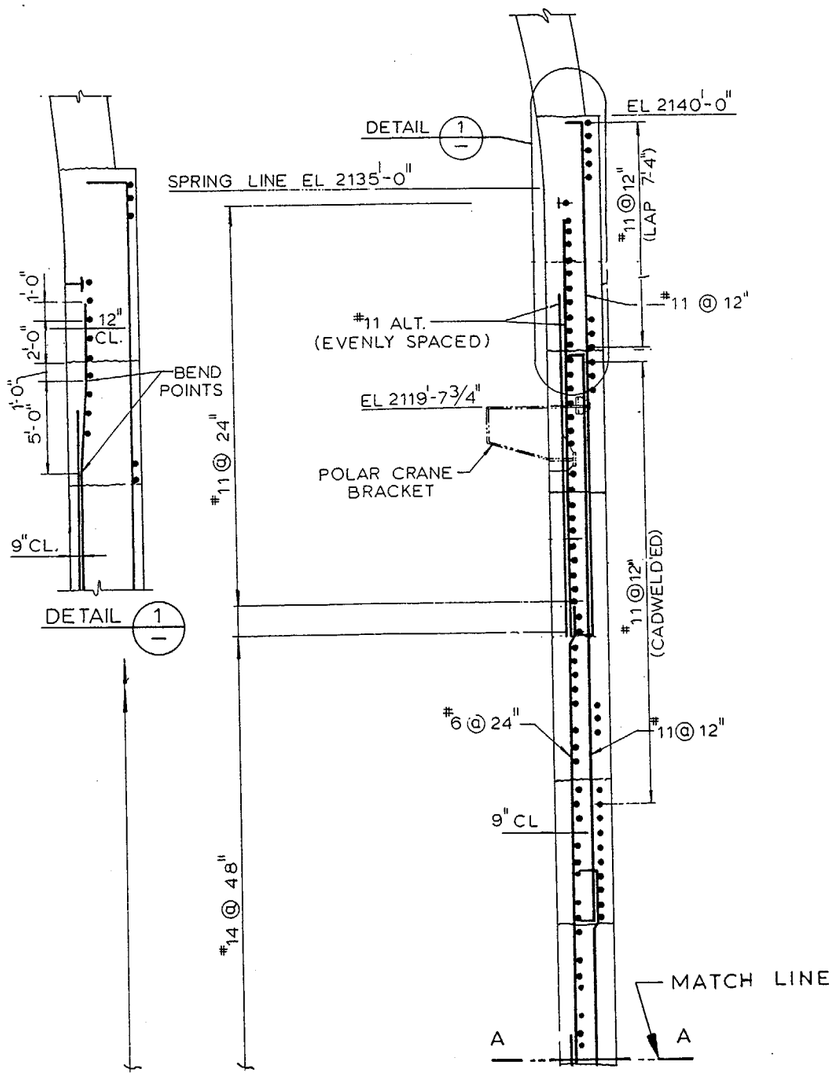
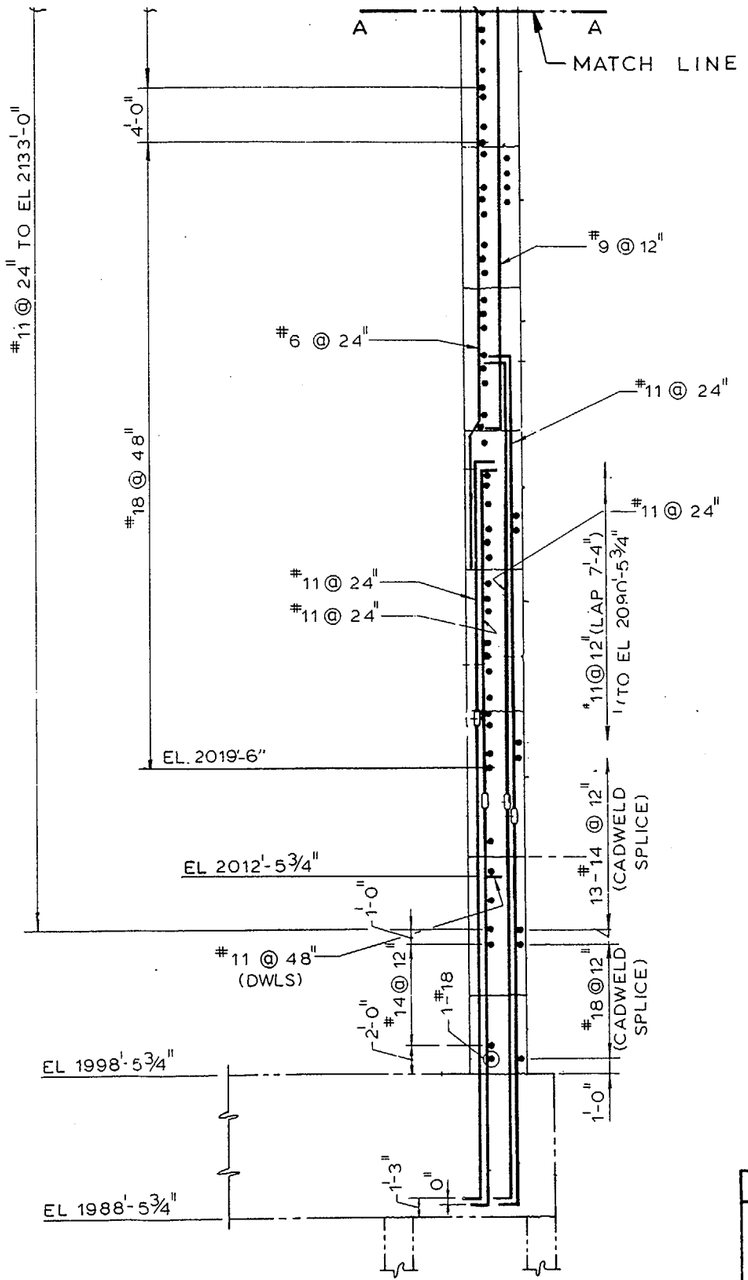
18.2-9 OL-5
18.2-10 OL-5
18.2-11 OL-5
18.2-12 OL-5
18.2-13 OL-5
18.2-14 OL-5
18.2-15 OL-5
18.2-16 OL-5
18.2-17 OL-5
18.2-18 OL-5
18.2-19 OL-5
18.2-20 OL-5
18.2-21 OL-5
18.2-22 OL-5
18.2-23 OL-5
18.2-24 OL-8
18.2-25 OL-9
18.2-26 OL-5
18.2-27 OL-5
18.2-28 OL-5
18.2-29 OL-5
18.2-30 OL-5
18.2-31 OL-6
18.2-32 OL-5
18.2-33 OL-5
18.2-34 OL-5
18.2-35 OL-5
18.2-36 OL-5
18.2-37 OL-5
18.2-38 OL-5
18.2-39 OL-5
18.2-40 OL-9
18.2-41 OL-5
18.2-42 OL-5
18.2-43 OL-5
18.2-44 OL-5
18.2-45 OL-10
18.2-46 OL-11
18.2-47 OL-5
18.2-48 OL-5
18.2-49 OL-5
18.2-50 OL-5
18.2-51 OL-5
18.2-52 OL-5
18.2-53 OL-5
18.2-54 OL-5





TYPICAL WALL ELEVATION

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CALLAWAY PLANT

FIGURE 3.8-12

REACTOR BUILDING SHELL REINFORCING

Standard Plant

TABLE 16.11-5 (Sheet 2)

b. Iodine Sampler	1	At all times	43
c. Particulate Sampler	1	At all times	43
d. Radwaste Building Vent Flow Rate	N/A	N/A	N/A
e. Particulate and Radioiodine Sampler Flow Rate Monitor	1	At all times	39
4. Laundry Decontamination Faciliy Dryer Exhaust			
a. Particulate Monitor	1	When the dryers are operating	47
b. Particulate Monitor Flow Rate Meter	1	When the dryers are operating	47
c. Dryer Exhaust Ventilation Flow Rate	NA	NA	NA

TABLE 16.11-5 (Sheet 3)

ACTION STATEMENTS

ACTION 38 - With the number of low range channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, the contents of the tank(s) may be released to the environment for up to 14 days provided that prior to initiating the release:

a. At least two independent samples of the tank's contents are analyzed, and

b. At least two technically qualified members of the facility staff independently verify the release rate calculations and discharge valve lineup.

Otherwise, suspend release of radioactive effluents via this pathway.

ACTION 39 - With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, effluent releases via this pathway may continue provided the flow rate is estimated based on fan status and operating curves or actual measurements at least once per 4 hours.

ACTION 40 - With the number of low range channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, effluent releases via this pathway may continue for up to 30 days provided grab samples are taken at least once per 12 hours and these samples are analyzed for radioactivity within 24 hours.

ACTION 41 - MODES 1, 2, 3, and 4:
With the number of channels OPERABLE one less than required by the Minimum Channels OPERABLE requirement, restore the affected channel to OPERABLE status within 4 hours. If the inoperable channel is not restored within 4 hours or with no channels OPERABLE, immediately suspend the release of radioactive effluents via this pathway.

During CORE ALTERATIONS or movement of irradiated fuel within the containment:
With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, restore the affected channel to OPERABLE status within 4 hours. If the inoperable channel is not restored within 4 hours or with no channels OPERABLE, immediately suspend the release of radioactive effluents via this pathway, or suspend CORE ALTERATIONS and suspend movement of irradiated fuel assemblies within containment.

ACTION 42 - Deleted.

ACTION 43 - With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, effluent releases via the affected pathway may continue for up to 30 days provided samples are continuously collected with auxiliary sampling equipment as required in Table 16.11-4.

ACTION 44 - Deleted.

TABLE 16.11-5 (Sheet 4)

ACTION 45 - Flow rate for this system shall be based on fan status and operating curves or actual measurements.

ACTION 46 - For midrange and high range channels only - with the number of OPERABLE channels less than required by the Minimum Channels OPERABLE requirement, take the action specified in Section 16.3.3.4, ACTION C.

ACTION 47 - With the number of channels OPERABLE less than required by the Minumum Channels OPERABLE requirement, immediately suspend the release of radioactivite effluents via this pathway.

TABLE 16.11-6

RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

INSTRUMENT	CHANNEL CHECK	SOURCE CHECK	CHANNEL CALIBRATION	CHANNEL OPERATIONAL TEST	MODES FOR WHICH SURVEILLANCE IS REQUIRED
1. Unit Vent System					
a. Noble Gas Activity Monitor - Providing Alarm (GT-RE-21)	D	M	R(3)	Q(2)	At all times
b. Iodine Sampler	W	N.A.	N.A.	N.A.	At all times
c. Particulate Sampler	W	N.A.	N.A.	N.A.	At all times
d. Unit Vent Flow Rate	N.A.	N.A.	R(4)	Q	At all times
e. Particulate and Radioiodine Sampler Flow Rate Monitor	D	N.A.	R	Q	At all times
2. Containment Purge System					
a. Noble Gas Activity Monitor - Providing Alarm and Automatic Termination of Release (GT-RE-22, GT-RE-33)	N.A.	P	N.A.	N.A.	MODES 1,2,3,4 and during CORE ALTERATIONS or movement of irradiated fuel within the containment
b. Iodine Sampler	W	N.A.	N.A.	N.A.	MODES 1,2,3,4 and during CORE ALTERATIONS or movement of irradiated fuel within the containment
c. Particulate Sampler	W	N.A.	N.A.	N.A.	MODES 1,2,3,4 and during CORE ALTERATIONS or movement of irradiated fuel within the containment
d. Containment Purge Ventilation Flow Rate	N.A.	N.A.	R(4)	N.A.	MODES 1,2,3,4 and during CORE ALTERATIONS or movement of irradiated fuel within the containment
e. Particulate and Radioiodine Sampler Flow Rate Monitor	D	N.A.	R	N.A.	MODES 1,2,3,4 and during CORE ALTERATIONS or movement of irradiated fuel within the containment
3. Radwaste Building Vent System					
a. Noble Gas Activity Monitor - Providing Alarm and Automatic Termination of Release (GH-RE-10)	D,P	M,P	R(3)	Q(1)	At all times
b. Iodine Sampler	W	N.A.	N.A.	N.A.	At all times
c. Particulate Sampler	W	N.A.	N.A.	N.A.	At all times