

APPENDIX A

OCONEE NUCLEAR STATION  
SITE SPECIFIC INFORMATION

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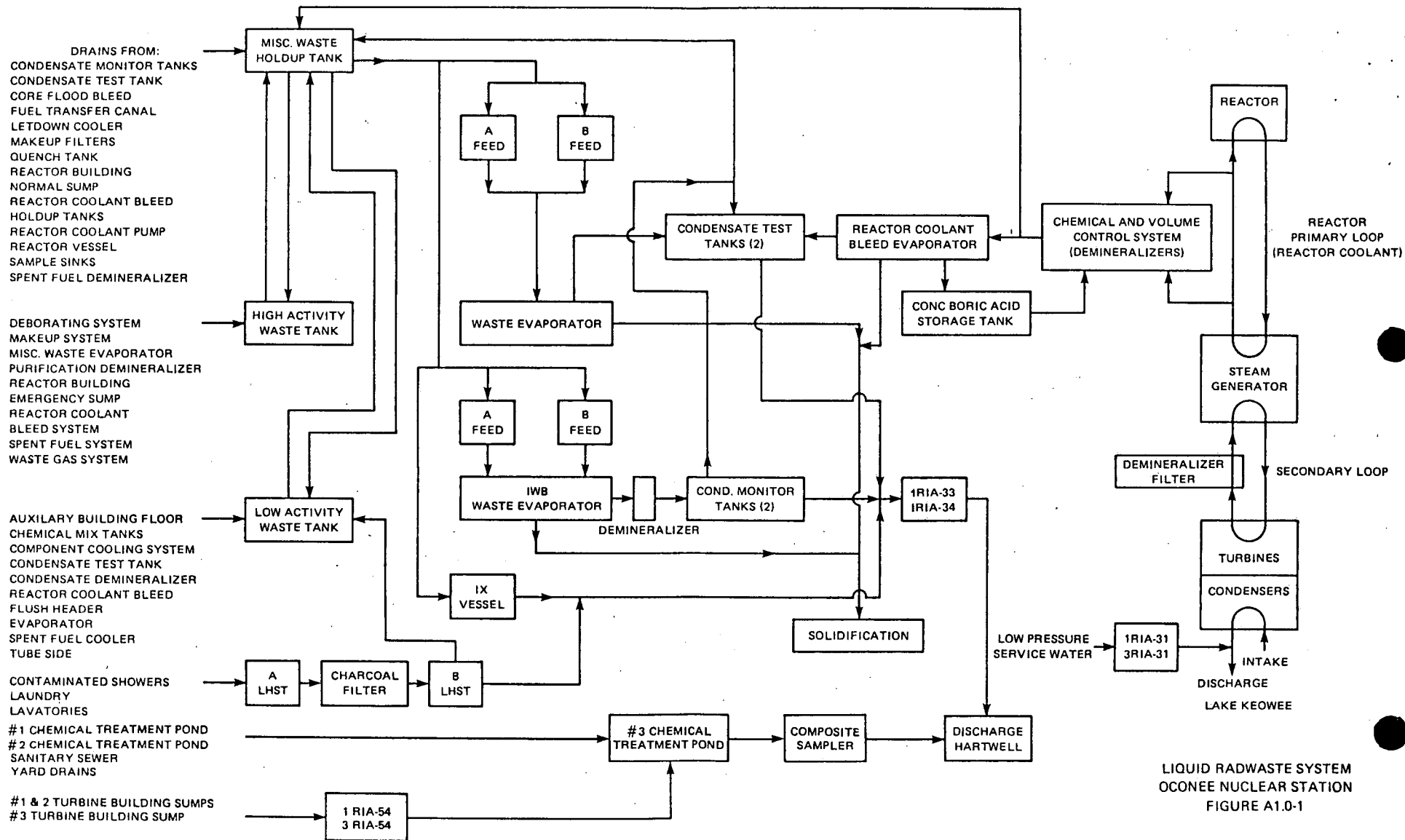
## A1.0 OCONEE NUCLEAR STATION RADWASTE SYSTEMS

### A1.1 LIQUID RADWASTE PROCESSING

The liquid radwaste system at Oconee Nuclear Station (ONS) is used to collect and treat fluid chemical and radiochemical by-products of unit operation. The systems produce effluents which can be reused in the plant or discharged in small, dilute quantities to the environment. The means of treatment vary with waste type and desired product in the various systems:

- A) Filtration - all waste sources are filtered prior to processing except from #3 Chemical Treatment Pond.
- B) Ion Exchange - ion exchange is used to remove radioactive ions from solution. Also, ion exchange is normally used in removing cations (cobalt, manganese) and anions (chloride, fluoride) from evaporator distillates in order to purify the distillates for reuse as makeup water. Distillate from the Waste Evaporator System or the RC Bleed Evaporator in the Boron Recycle System can be treated by this method, as well as MWHUT Waste.
- C) Gas Stripping - removal of gaseous radioactive fission products is accomplished in all Evaporators.
- D) Distillation - production of pure water from the waste by boiling it away from the contaminated solution which originally contained it is accomplished by both evaporators. Proper control of the process will yield water which can be reused for makeup. Polishing of this product can be achieved by ion exchange as pointed out above.
- E) Concentration - in all Evaporators, dissolved chemicals are concentrated in the lower shell as water is boiled away. In the case of the Waste Evaporator, the volume of water containing waste chemicals and radioactive cations is reduced so that the waste may be more easily and cheaply solidified and shipped for burial.

Figure A1.0-1 is a schematic representation of the liquid radwaste system at Oconee.



LIQUID RADWASTE SYSTEM  
OCONEE NUCLEAR STATION  
FIGURE A1.0-1

REDUCED FOR DRAFT VERSION ONLY

## A1.2 GASEOUS WASTE PROCESSING

The purpose of the gaseous waste disposal system is to:

- (1) Maintain a non-oxidizing cover gas of nitrogen in tanks and equipment that contain potentially radioactive gas.
- (2) Hold up radioactive gas for decay.
- (3) Release gases (radioactive or non-radioactive) to the atmosphere under controlled conditions.

During power operation of the facilities, radioactive materials released to the atmosphere in gaseous effluents include low concentrations of fission product noble gases (krypton and xenon), halogens (mostly iodines), tritium contained in water vapor and particulate material including both fission products and activated corrosion products.

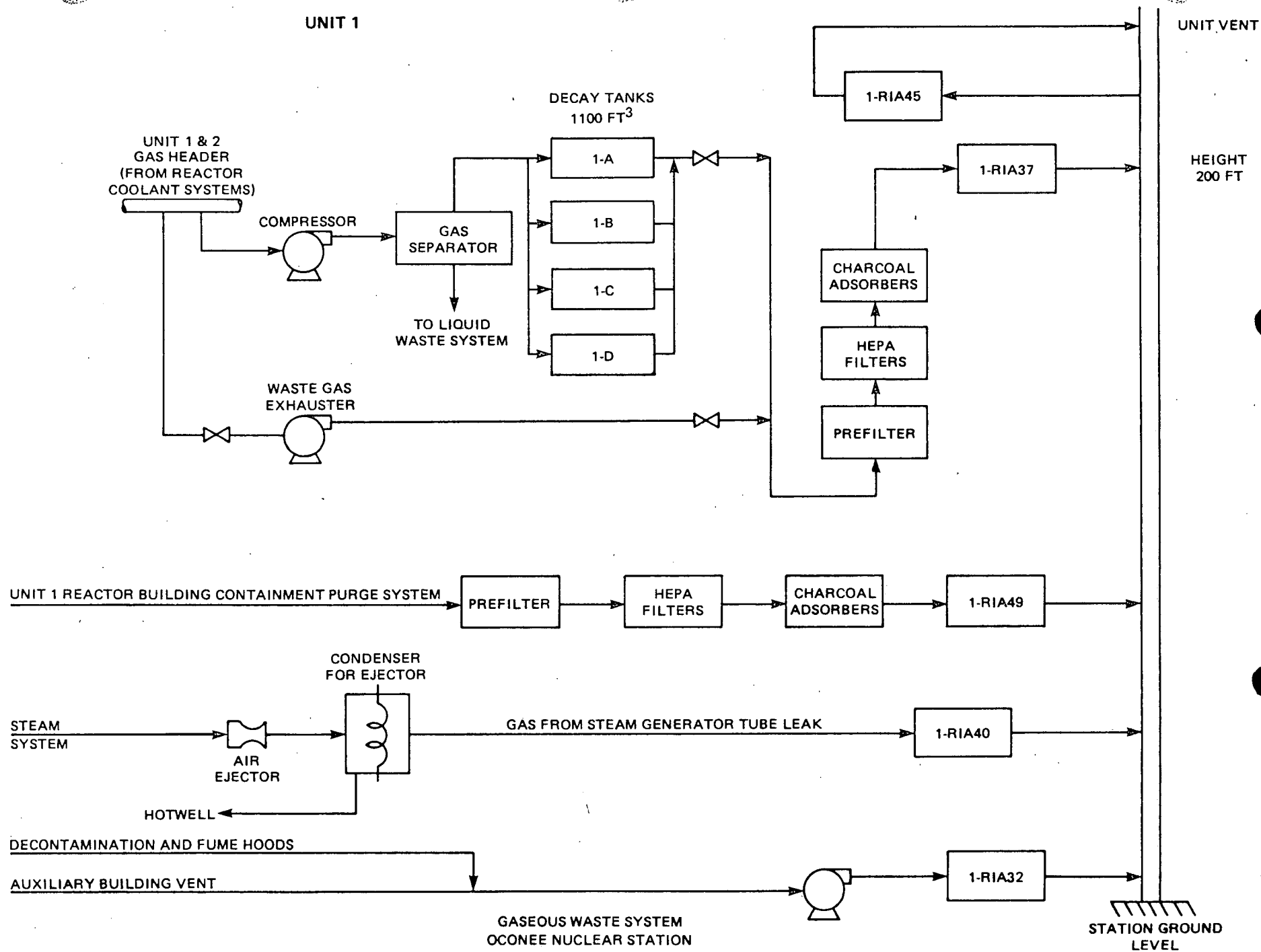
The primary source of gaseous radioactive wastes is from the degassing of the primary coolant during letdown of the cooling water into the various holding tanks. Additional sources of gaseous waste activity include the auxiliary building exhaust, spent fuel area exhaust, the discharge from the steam jet air ejectors, purging of the reactor containment building and ventilation air exhausted from the turbine building.

All components that can contain potentially radioactive gases are vented to a vent header. The vent gases are subsequently drawn from this vent header by one of three waste gas compressors or a waste gas exhauster. The waste gas compressor discharges through a waste gas separator to one of seven waste gas tanks. The waste gas tanks and the waste gas exhauster discharge to the unit vent after passing through a filter bank consisting of a prefilter, an absolute filter, and a charcoal filter.

Radioactive gases may be released inside the reactor containment building when components of the primary system are opened to the building atmosphere for operational reasons or where minor leaks occur in the primary system. Prior to access, the reactor containment atmosphere will be monitored for activity and, when necessary, purged through prefilters, high-efficiency particulate air (HEPA) filters and charcoal adsorbers and released to atmosphere through the unit vent. The purge equipment is sized for a flow rate of 50,000 cfm providing approximately 1.5 air changes per hour in the reactor building. Units 1, 2 & 3 have a separate vent stack from each reactor building.

The gaseous waste handling and treatment systems for the Oconee Nuclear Station are shown schematically in Fig. A1.0-2.

# UNIT 1



GASEOUS WASTE SYSTEM  
OCONEE NUCLEAR STATION

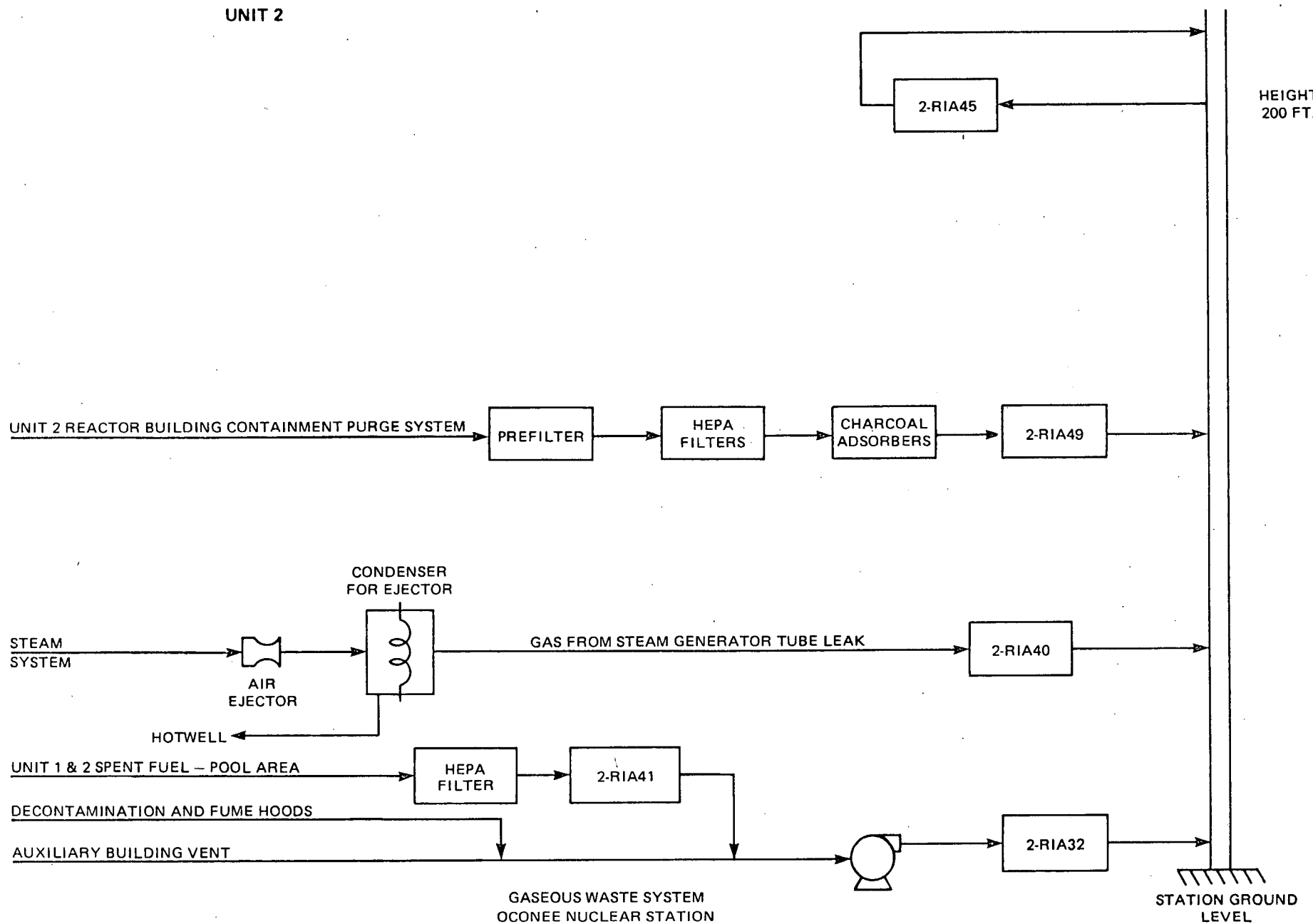
FIGURE A1.0-2

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UNIT 2

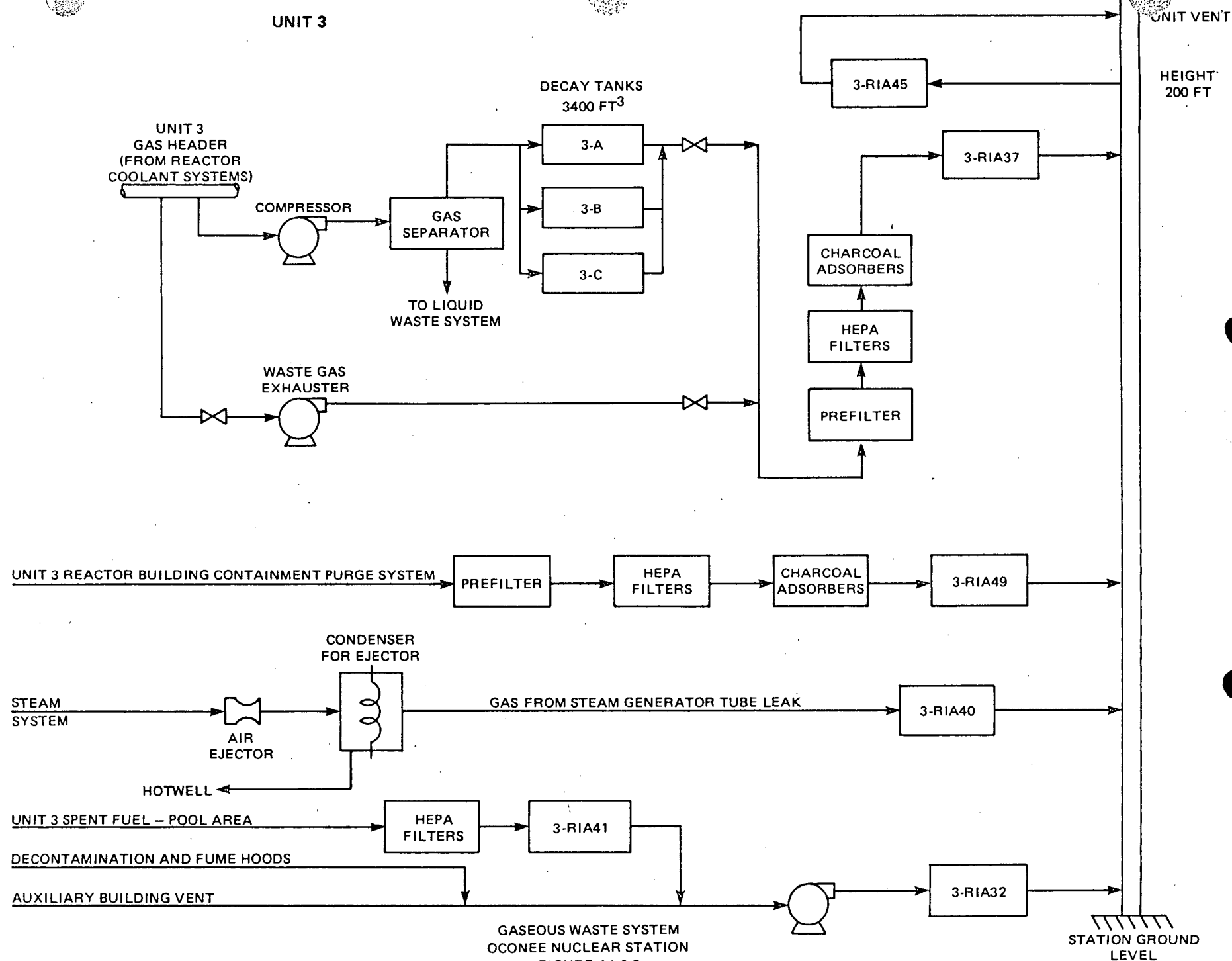
UNIT VENT

HEIGHT  
200 FT.



GASEOUS WASTE SYSTEM  
OCONEE NUCLEAR STATION  
FIGURE A1.0-2  
PAGE 2 OF 4

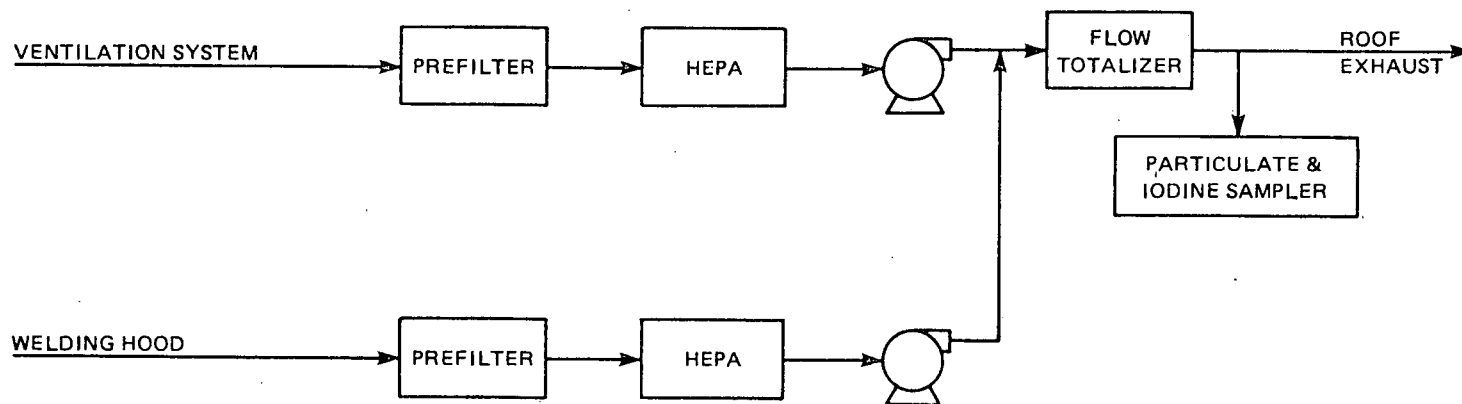
# UNIT 3



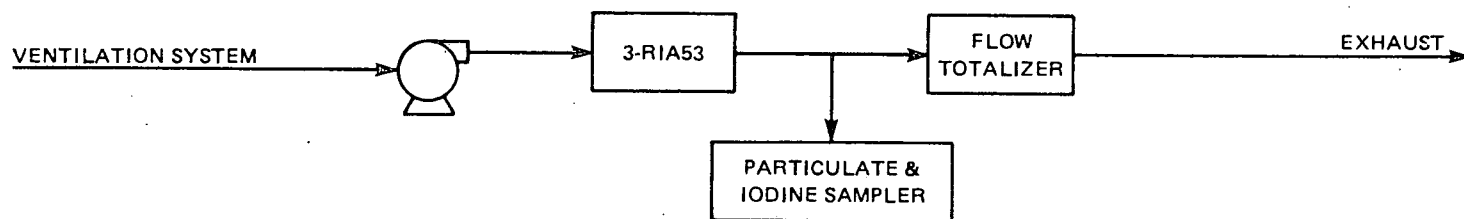
GASEOUS WASTE SYSTEM  
OCONEE NUCLEAR STATION  
FIGURE A1.0-2  
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## HOT MACHINE SHOP



## INTERIM RADWASTE FACILITY



## A2.0 RELEASE RATE CALCULATION

Generic release rate calculations are presented in Section 1.0; these calculations will be used to calculate release rates from Oconee Nuclear Station.

### A2.1 LIQUID RELEASE RATE CALCULATIONS

There are two potential release points at Oconee, the liquid radwaste effluent line to the Keowee Hydroelectric Unit Tailrace and the #3 Chemical Treatment Pond effluent line to the Keowee River.

#### A2.1.1 Liquid Radwaste Effluent Line

To simplify calculations for the liquid radwaste effluent line, it is assumed that no activity above background is present in the #3 Chemical Treatment Pond effluent. This assumption shall be confirmed by radiation monitoring measurements on the turbine building sumps and by periodic analysis of the composite sample collected at the #3 Chemical Treatment Pond discharge. For the liquid radwaste effluent line, one of the following calculations shall be performed for discharge flow, ( $f_1$  or  $f_2$ ), in gpm, depending on hydro-electric unit operation:

$$f_1 \leq 1.7E+4 \div \sum_{i=1}^n \frac{C_i}{MPC_i}$$

$$f_2 \leq 2.9E+6 \div \sum_{i=1}^n \frac{C_i}{MPC_i}$$

where:

$C_i$  = the concentration of radionuclide, 'i', in undiluted effluent as determined by laboratory analyses, in  $\mu\text{Ci/ml}$ .

$MPC_i$  = the concentration of radionuclide, 'i', from 10CFR20, Appendix B, Table II, Column 2. If radionuclide, 'i', is a dissolved noble gas, the  $MPC_i = 2.0E-4 \mu\text{Ci/ml}$ .

$F$  = the dilution flow available depending on hydroelectric unit operation, in gpm:

$F_1$  =  $1.7E+4$  gpm (based on a leakage rate of 38 cfs, the minimum flow available)

$F_2$  =  $2.9E+6$  gpm (when hydro is operating or 6600 cfs)

$\sigma$  = the recirculation factor at equilibrium is 1.0.

The liquid radwaste effluent discharge is located downstream of Keowee Hydroelectric Station, and therefore, has no reconcentration (recirculation) factor associated with it. (See Section 1.1).

#### A2.1.2 #3 Chemical Treatment Pond Effluent Line

The #3 Chemical Treatment Pond effluent is normally considered nonradioactive; that is, it is unlikely the effluent will contain measurable activity above background. It is assumed that no activity is present in the effluent until indicated by radiation monitoring measurements on the turbine building sumps and by periodic analyses of the composite sample collected at the #3 Chemical Treatment Pond. Radiation monitoring alarm/trip setpoints assure that Specification 3.9.1 is not exceeded.

#### A2.1.3 Low Pressure Service Water Effluent Line

The Low Pressure Service water effluent is normally considered nonradioactive; that is, it is unlikely the effluent will contain measurable activity above background. It is assumed that no activity is present in the effluent until indicated by radiation monitoring measurements. Radiation monitoring alarm setpoints, in conjunction with administrative controls, assure that release limits are not exceeded.

### A2.2 GASEOUS RELEASE RATE CALCULATIONS

The unit vent is the release point for waste gas decay tanks, containment building purges, the condenser air ejector, and auxiliary building ventilation. The condenser air ejector effluent is normally considered nonradioactive; that is, it is unlikely the effluent will contain measurable activity above background. It is assumed that no activity is present in the effluent until indicated by radiation monitoring measurements and by analyses of periodic samples collected on that line. Radiation monitoring alarm/trip setpoints in conjunction with administrative controls assure that release limits are not exceeded; see section on radiation monitoring setpoints.

The following calculations, when solved for flowrate, are the release rates for noble gases and for radioiodines, particulates and other radionuclides with half-lives greater than 8 days; the most conservative of release rates calculated in A2.2.1 and A2.2.2 shall control the release rates for a single release point.

#### A2.2.1 Release rate limit for noble gases:

$$\sum_i K_i [(\overline{X/Q}) \tilde{Q}_i] < 500 \text{ mrem/yr, and}$$

$$\sum_i (L_i + 1.1 M_i) [(\overline{X/Q}) \tilde{Q}_i] < 3000 \text{ mrem/yr}$$

where the terms are defined below:

#### A2.2.2 Release rate limit for all radioiodines and radioactive materials in particulate form and radionuclides other than noble gases:

$$\sum_i P_i [W \tilde{Q}_i] < 1500 \text{ mrem/yr}$$

where:

$K_i$  = The total body dose factor due to gamma emissions for each identified noble gas radionuclide, in mrem/yr per  $\mu\text{Ci}/\text{m}^3$  from Table 1.2-1.

$L_i$  = The skin dose factor due to beta emissions for each identified noble gas radionuclide, in mrem/yr per  $\mu\text{Ci}/\text{m}^3$  from Table 1.2-1.

$M_i$  = The air dose factor due to gamma emissions for each identified noble gas radionuclide, in mrad/yr per  $\mu\text{Ci}/\text{m}^3$  from Table 1.2-1 (unit conversion constant of 1.1 mrem/mrad converts air dose to skin dose).

$P_i$  = The dose parameter for radionuclides other than noble gases for the inhalation pathway, in mrem/yr per  $\mu\text{Ci}/\text{m}^3$  and for the food and ground plane pathways in  $\text{m}^2$  (mrem/yr) per  $\mu\text{Ci}/\text{sec}$  from Table 1.1-2. The dose factors are based on the critical individual organ and most restrictive age group (child or infant).

$\tilde{Q}_i$  = The release rate of radionuclides,  $i$ , in gaseous effluent from all release points at the site, in  $\mu\text{Ci}/\text{sec}$ .

$\overline{X/Q}$  =  $4.1\text{E-}7 \text{ sec}/\text{m}^3$ . The highest calculated annual average relative concentration for any area at or beyond the unrestricted area boundary.

$W$  = The highest calculated annual average dispersion parameter for estimating the dose to an individual at the controlling location:

$W = 4.5\text{E-}9 \text{ sec}/\text{m}^3$ , for the inhalation pathway. The location is the unrestricted area in the S sector.

$W = 2.5\text{E-}9 \text{ m}^{-2}$ , for the food and ground plane pathways. The location is the unrestricted area boundary in the SSW sector (nearest residence, cow, and vegetable garden)

$$\tilde{Q}_i = k_1 C_i f \div k_2 = 4.72\text{E+}2 C_i f$$

where:

$C_i$  = the concentration of radionuclide,  $i$ , in undiluted gaseous effluent, in  $\mu\text{Ci}/\text{ml}$ .

$f$  = the undiluted effluent flow, in cfm

$k_1$  = conversion factor,  $2.83\text{E+}04 \text{ ml}/\text{ft}^3$

$k_2$  = conversion factor,  $6.0\text{E+}01 \text{ sec}/\text{min}$

### A3.0 RADIATION MONITOR SETPOINTS

Using the generic calculations presented in Section 2.0, radiation monitoring setpoints are calculated for monitoring as required by the Technical Specifications.

All final effluent radiation monitors for Oconee are off-line. These monitors alarm on low flow; the minimum flow alarm level for the liquid monitors is 3 gallons per minute and for the gas monitors is 7 standard cubic feet per minute. These monitors measure the activity in the liquid or gas volume exposed to the detector and are independent of flow rate if a minimum flow rate is assured.

Radiation monitoring setpoints calculated in the following sections are expressed in activity concentrations; in reality the monitor readout is in counts per minute. The relationship between concentration and counts per minute shall be established by station procedure using the following relationship:

$$c = \frac{r}{2.22 \times 10^6 e v}$$

where:

c = the gross activity, in  $\mu\text{Ci/ml}$   
r = the count rate, in cpm  
 $2.22 \times 10^6$  = the disintegration per minute per  $\mu\text{Ci}$   
e = the counting efficiency, cpm/dpm  
v = the volume of fluid exposed to the detector, in ml.

#### A3.1 LIQUID RADIATION MONITORS

##### A3.1.1 Liquid Radwaste Effluent Line

As described in Section A2.1.1 of this manual on release rate calculations for the waste liquid effluent, the release is controlled by limiting the flow rate of effluent from the station. Although the release rate is flow rate controlled, the radiation monitor setpoint shall be set to terminate the release if the effluent activity should exceed that determined by laboratory analyses and that used to calculate the release rate.

##### A3.1.2 Turbine Building Sump Discharge Line

As described in Section A2.1.2 of this manual on release rate calculations for the turbine building sump effluent, the effluent is normally considered nonradioactive; that is, it is unlikely the effluent will contain measurable activity above background. It is assumed that no activity is present in the effluent until indicated by radiation monitoring and by routine analysis of the composite sample collected at the #3 Chemical Treatment Pond. Since the system discharges automatically, the maximum system concentration, which also is the radiation monitor setpoint, is calculated to assure compliance with release limits.

A typical setpoint is calculated as follows:

$$c \leq \frac{MPC \times F}{\sigma f} = 4.5E-6 \text{ } \mu\text{Ci/ml}$$

where:

c = the gross activity in undiluted effluent, in  $\mu\text{Ci/ml}$ .

f = the flow rate of undiluted effluent which may vary from 0-375 gpm, but is assumed to be 375 gpm.

MPC =  $1.0E-07 \text{ } \mu\text{Ci/ml}$ , the MPC for an unidentified mixture.

$\sigma$  = 1 (See Section A2.1.1)

F = the flow may vary from 38 to 6,600 cfs, but is conservatively estimated at 38 cfs ( $1.7E+4 \text{ gpm}$ ), the minimum flow available.

#### A3.1.3 Low Pressure Service Water Discharge Line

As described in Section A2.1.3 of this manual on release rate calculations for the Low Pressure Service water effluent, the effluent is normally considered nonradioactive; that is, it is unlikely the effluent will contain measurable activity above background. It is assumed that no activity is present in the effluent until indicated by radiation monitoring equipment. Since the system discharges automatically, the maximum system concentration which is also the radiation monitor setpoint, is calculated to assure compliance with release limits.

A typical monitor setpoint is calculated as follows:

$$C \leq \frac{MPC \times F}{\sigma f} = 1.16E-5 \text{ } \mu\text{Ci/ml}$$

where:

C = the gross activity in undiluted effluent, in  $\mu\text{Ci/ml}$ .

f = the flow rate of undiluted effluent which may vary from 0 to 10,500 gpm but is assumed to be 10,500 gpm.

MPC =  $1.0E-07 \text{ } \mu\text{Ci/ml}$ , the MPC for an unidentified mixture.

$\sigma$  = recirculation factor for Lake Keowee, 1.02.

F = the flow rate of the condensate cooling water is based on having seven CCW pumps in operation,  $1.24E+06 \text{ gpm}$ . Should the number of operating pumps decrease, the setpoint must be recalculated.

### A3.2 GAS MONITORS

The following equation shall be used to calculate noble gas radiation monitor set-points based on Xe-133:

$$K(\overline{X/Q})\tilde{Q}_i < 500 \text{ (See Section A2.2.1)}$$

$$\tilde{Q}_i = 4.72E+2 C_i f \text{ (See Section A2.2.2)}$$

$$C_i < 8.79E+3/f$$

where:

C = the gross activity in undiluted effluent, in  $\mu\text{Ci/ml}$

f = the flow from the tank or building and varies for various release sources, in cfm

K = from Table 1.2-1 for Xe-133,  $2.94E+2$  mrem/yr per  $\mu\text{Ci/m}^3$

$\overline{X/Q}$  =  $4.1E-7$  sec/ $\text{m}^3$ , as defined in section A2.2.2.

#### A3.2.1 Unit Vent

As stated in Section A2.2, the unit vent is the release point for waste gas decay tanks, containment building purges, the condenser air ejector, and auxiliary building ventilation. Since all of these releases are through the unit vent, the radiation monitor on the unit vent may be used to assure that station release limits are not exceeded. Depending on the stack flow, a typical radiation monitor setpoint may be calculated as follows:

$$C < 8.79E+3/f = 9.25E-2 \mu\text{Ci/ml}$$

where:

f = 45,000 cfm (auxiliary building) + 50,000 cfm (containment purge) = 95,000 cfm

or may be:

$$C < 8.79E+3/f = 1.95E-1 \mu\text{Ci/ml}$$

where:

f = 45,000 cfm (auxiliary building ventilation)

#### A3.2.2 Interim Radwaste Building Ventilation Exhaust

Ventilation exhaust from the Interim Radwaste Building is not released through the unit vent and is considered a separate release point. This exhaust is normally considered non-radioactive; that is, it is possible but unlikely that the

effluent will contain measurable activity above background. Since the exhaust is continuous, a maximum concentration of gases in the exhaust, which also is the radiation monitor setpoint, is calculated to assure compliance with release limits. A typical radiation monitor setpoint may be calculated as follows:

$$C < 8.79E+3/f = 5.98E-1 \mu\text{Ci/ml}$$

where:

$$f = 1.47E+04 \text{ cfm}$$

#### A3.2.3 Hot Machine Shop Building Ventilation Exhaust

Ventilation exhaust from the Hot Machine Shop is not released through the unit vent and is considered to be a separate release point. This filtered exhaust is sampled and analyzed for particulates and radioiodines to assure that the effluent released has not exceeded station release limits. Since it is assumed that no noble gases will be generated by machine shop work, no provision for monitoring noble gas releases are provided.

#### A3.2.4 Contaminated Oil Burning In Auxiliary Boiler

Contaminated oil is burned in the auxiliary boiler which is not released through the unit vent and is considered a separate release point. The contaminated oil is filtered, mixed, and sampled to determine the total activity to be released and the allowable release (burn) rate.

By Technical Specification, releases from the auxiliary boiler from incineration of contaminated oil must meet the instantaneous release rate for iodines and particulates given in Section A2.2.2. Also, the total dose due to these releases must be less than 0.1% of the allowable yearly dose from particulate gaseous effluents.

Doses from incineration of contaminated oil are calculated for all organs and all pathways using the models provided in Section 3.1.2.2 of this manual and the GASPAR computer program. Doses are calculated quarterly at a minimum.

All the activity in the contaminated oil is assumed to be released during incineration and the total is added to the station's quarterly and annual release records.



#### A4.0 DOSE CALCULATIONS

##### A4.1 FREQUENCY OF CALCULATIONS

Dose contributions to the maximum individual shall be calculated at least every 31 days, quarterly, semiannually, and annually (or as required by Technical Specifications) using the methodology in the generic information sections. This methodology shall also be used for any special reports. Dose projections may be performed using simplified dose estimates.

Fuel cycle dose calculations shall be performed annually or as required by special reports. Dose contributions shall be calculated using the methodology in the appropriate generic information sections.

##### A4.2 DOSE MODELS FOR MAXIMUM EXPOSED INDIVIDUAL

###### A4.2.1 Liquid Effluents

For dose contributions from liquid radioactive effluent releases, it is assumed that the maximum exposed individual is an adult who consumes fish caught in the discharge area and drinks water from the nearest downstream water supply.

###### A4.2.2 Gaseous Effluents

###### A4.2.2.1 Noble Gases

For dose contributions from exposure to beta and gamma radiations from noble gases, it is assumed that the maximum exposed individual is an adult on the site boundary in each meteorological sector.

###### A4.2.2.2 Radioiodines, Particulates, and Other Radionuclides with $T_{1/2} > 8$ days

For dose contributions from radioiodines, particulates, and other radionuclides; it is assumed that the maximum exposed individual is an infant who breathes the air and consumes milk from the nearest goat or cow in each meteorological sector.

##### A4.3 SIMPLIFIED DOSE ESTIMATES

###### A4.3.1 Liquid Effluents

For dose estimates, a simplified calculation using the assumptions presented in Section A4.2.1 and operational source term data is presented below. Dose calculations used to evaluate Appendix I to 10CFR50 compliance indicate that the maximum exposed individual is an adult who consumes fish caught in the discharge area and that 90% of the dose is from Cesium-134 and Cesium-137.

$$D_{WB} = 6.38E+5 \sum_{\ell=1}^m (F_{\ell})(T_{\ell}) (C_{Cs-134} + 0.59 C_{Cs-137})$$

where:

$$6.38\text{E}+05 = 1.14\text{E}+05 (U_{aw} / D_w + U_{af} BF_i) DF_{ait} \quad (1.10)$$

where:

$$1.14\text{E}+05 = 10^6 \text{pCi}/\mu\text{Ci} \times 10^3 \text{ml}/\text{kg} \div 8760 \text{ hr}/\text{yr}$$

$U_{aw}$  = 730 kg/yr, adult water consumption

$D_w$  = 27.5, dilution factor from the near field area to the potable water intake.

$U_{af}$  = 21 kg/yr, adult fish consumption

$BF_i$  = 2.00E+03, bioaccumulation factor for Cesium (Table 3.1-1)

$DF_{ait}$  = 1.21E-04, adult, total body, ingestion dose factor (Table 3.1-2)

1.10 = factor derived from the assumption that 90% of dose is from Cs-134 and Cs-137 or  $100\% \div 90\% = 1.10$

where:

$$F_l = \frac{f\sigma}{F + f}$$

$f$  = liquid radwaste flow, in gpm

$\sigma$  = recirculation factor at equilibrium, 1.0

$F$  = dilution flow, in gpm

and where:

$T_l$  = the length of time, in hours, over which  $C_{\text{Cs-134}}$ ,  $C_{\text{Cs-137}}$ , and  $F_l$  are averaged

$C_{\text{Cs-134}}$  = the average concentration of Cs-134 in undiluted effluent, in  $\mu\text{Ci}/\text{ml}$ , during the time period considered.

$C_{\text{Cs-137}}$  = the average concentration of Cs-137 in undiluted effluent, in  $\mu\text{Ci}/\text{ml}$ , during the time period considered.

0.59 = the ratio of the adult total body ingestion dose factors for Cs-134 and Cs-137 or  $7.14\text{E}-05 \div 1.21\text{E}-04 = 0.59$

#### A4.3.2 Gaseous Effluents

Meteorological data is provided in Table A4.0-1 and A4.0-2.

##### A4.3.2.1 Noble Gases

For dose estimates, simplified dose estimates using the assumptions in A4.2.2.1 and operational source term data is presented below. These calculations further assume that the annual average dispersion parameter is used and that Xenon-133 contributes 45% of the dose.

$$D_y = 4.59\text{E}-12 [\tilde{Q}]_{\text{Xe-133}} \quad (2.22)$$

$$D_{\beta} = 1.36E-11 [\tilde{Q}]_{\text{Xe-133}} (2.22)$$

where:

$4.59E-12 = (3.17E-8) (353) (X/Q)$ , derived from equation presented in Section 3.1.2.1.

$1.36E-11 = (3.17E-8) (1050) (X/Q)$ , derived from equation presented in Section 3.1.2.1.

$[\tilde{Q}]_{\text{Xe-133}}$  = the total Xenon-133 activity released in  $\mu\text{Ci}$

$X/Q = 4.1E-07 \text{ sec/m}^3$ , as defined in Section A2.2.2

2.22 = factor derived from the assumption that 45% of the dose is contributed by Xe-133

A4.3.2.2. Radioiodines, Particulates, and Other Radionuclides with  $T_{1/2} > 8 \text{ Days}$

For dose estimates, simplified dose estimates using the assumptions in A4.2.2.2 and operational source term data is presented below. These calculations further assume that the annual average dispersion/deposition parameter is used and that 95% of the dose is from Iodine-131 concentrated in cow's milk. The simplified dose estimate to the thyroid of an infant is:

$$D = 1.67E+04w (\tilde{Q})_{\text{I-131}} (1.05)$$

where:

$w = 5.8E-10 (D/Q)$  for food and ground plane pathway, in  $\text{m}^{-2}$  from Table A4.0-2 for the location of the nearest real cow (ESE @ 2.8 miles).

$(\tilde{Q})_{\text{I-131}}$  = the total Iodine-131 activity released in  $\mu\text{Ci}$ .

$1.67E+04 = (3.17E-08) R^C [D/Q]$  with the appropriate substitutions for cow's milk in the grass-cow-milk-pathway factor,  $R_i [D/Q]$ , for Iodine-131. See Section 3.1.2.2.

1.05 = factor derived from the assumption that 95% of the dose is contributed by I-131.

#### A4.3 FUEL CYCLE CALCULATIONS

These calculations shall be performed using models presented in generic information Section 3.3

TABLE A4.0-1

OCONEE NUCLEAR STATION  
(1 of 1)

DISPERSION PARAMETER (X/Q) FOR LONG TERM RELEASES > 500 HR/YR OR > 125 HR/QTR

Sector	Distance to the control location, in miles									
	0-0.5*	0.5-1.0*	1.0-1.5	1.5-2.0	2.0-2.5	2.5-3.0	3.0-3.5	3.5-4.0	4.0-4.5	4.5-5.0
N			6.5E-8	4.8E-8	4.7E-8	4.7E-8	4.7E-8	6.3E-8	5.9E-8	5.6E-8
NNE			1.1E-7	9.3E-8	8.7E-8	8.9E-8	9.2E-8	9.2E-8	7.2E-8	5.9E-8
NE			7.5E-8	7.2E-8	6.8E-8	5.8E-8	6.1E-8	6.4E-8	6.0E-8	5.7E-8
ENE			6.0E-8	6.4E-8	5.9E-8	6.1E-8	5.7E-8	5.7E-8	5.6E-8	5.6E-8
E			4.1E-8	3.7E-8	5.7E-8	4.8E-8	5.2E-8	4.9E-8	4.7E-8	4.5E-8
ESE			3.0E-8	4.0E-8	6.7E-8	5.8E-8	4.3E-8	5.3E-8	4.9E-8	4.7E-8
SE			2.8E-8	2.8E-8	6.0E-8	5.1E-8	4.1E-8	3.7E-8	3.8E-8	3.8E-8
SSE			2.3E-7	2.0E-7	3.2E-7	2.5E-7	3.7E-7	2.9E-7	2.7E-7	2.5E-7
S			2.6E-7	3.0E-7	2.1E-7	2.1E-7	3.6E-7	4.1E-7	3.7E-7	3.6E-7
SSW			3.2E-7	3.1E-7	2.9E-7	2.7E-7	2.0E-7	1.7E-7	1.7E-7	1.7E-7
SW			7.3E-8	7.1E-8	7.1E-8	5.9E-8	3.9E-8	4.4E-8	4.5E-8	4.5E-8
WSW			5.3E-8	5.2E-8	5.3E-8	4.2E-8	4.8E-8	4.3E-8	4.2E-8	4.2E-8
W			2.7E-8	3.2E-8	3.7E-8	3.7E-8	3.9E-8	3.9E-8	3.7E-8	3.6E-8
WNW			2.3E-8	2.5E-8	3.5E-8	3.5E-8	3.3E-8	3.2E-8	3.0E-8	2.9E-8
NW			3.2E-8	3.7E-8	3.1E-8	3.3E-8	3.0E-8	3.1E-8	2.9E-8	2.8E-8
NNW			6.8E-8	7.7E-8	8.3E-8	7.7E-8	7.8E-8	6.5E-8	6.3E-8	6.2E-8

\* Inside Exclusion Area Boundary (EAB)

TABLE A4.0-2

OCONEE NUCLEAR STATION  
(1 of 1)

DEPOSITION PARAMETER (D/Q) FOR LONG TERM RELEASES > 500 HR/YR OR > 125 HR/QTR

Sector	Distance to the control location, in miles									
	<u>0-0.5*</u>	<u>0.5-1.0*</u>	<u>1.0-1.5</u>	<u>1.5-2.0</u>	<u>2.0-2.5</u>	<u>2.5-3.0</u>	<u>3.0-3.5</u>	<u>3.5-4.0</u>	<u>4.0-4.5</u>	<u>4.5-5.0</u>
N			2.4E-9	1.4E-9	8.7E-10	6.0E-10	4.7E-10	3.6E-10	2.8E-10	2.3E-10
NNE			4.1E-9	2.2E-9	1.4E-9	9.6E-10	7.4E-10	5.7E-10	4.4E-10	3.6E-10
NE			2.7E-9	1.5E-9	9.7E-10	6.6E-10	5.0E-10	3.9E-10	3.1E-10	2.5E-10
ENE			1.5E-9	8.4E-10	5.4E-10	3.7E-10	2.8E-10	2.2E-10	1.7E-10	1.4E-10
E			1.6E-9	8.7E-10	5.6E-10	3.9E-10	3.0E-10	2.3E-10	1.8E-10	1.5E-10
ESE			1.3E-9	7.0E-10	4.5E-10	3.0E-10	2.3E-10	1.8E-10	1.4E-10	1.1E-10
SE			8.0E-10	4.4E-10	2.9E-10	2.0E-10	1.5E-10	1.2E-10	8.9E-11	7.3E-11
SSE			2.7E-9	1.6E-9	1.1E-9	7.5E-10	6.0E-10	4.6E-10	3.6E-10	3.0E-10
S			4.5E-9	2.6E-9	1.7E-9	1.2E-9	9.0E-10	7.0E-10	5.5E-10	4.5E-10
SSW			4.3E-9	2.5E-9	1.6E-9	1.1E-9	8.5E-10	6.5E-10	5.0E-10	4.2E-10
SW			1.4E-9	8.4E-10	5.5E-10	3.9E-10	3.0E-10	2.3E-10	1.8E-10	1.5E-10
WSW			1.6E-9	9.1E-10	6.0E-10	4.1E-10	3.2E-10	2.5E-10	1.9E-10	1.6E-10
W			1.4E-9	7.9E-10	5.1E-10	3.6E-10	2.7E-10	2.1E-10	1.6E-10	1.3E-10
WNW			7.7E-10	4.4E-10	2.9E-10	2.0E-10	1.5E-10	1.2E-10	9.2E-11	7.4E-11
NW			1.1E-9	5.9E-10	3.8E-10	2.6E-10	2.0E-10	1.6E-10	1.2E-10	9.9E-11
NNW			1.9E-9	1.0E-9	6.6E-10	4.5E-10	3.5E-10	2.7E-10	2.1E-10	1.7E-10

\* Inside Exclusion Area Boundary (EAB)

TABLE A4.0-3

OCONEE NUCLEAR STATION  
Adult A<sub>4</sub> DOSE PARAMETERS

RADIONUCLIDE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
1 H A 3	0.0	5.44E-01	5.44E-01	5.44E-01	5.44E-01	5.44E-01	5.44E-01
11 NA 24	4.12E+02	4.12E+02	4.12E+02	4.12E+02	4.12E+02	4.12E+02	4.12E+02
24 CR 51	0.0	0.0	1.28E+00	7.66E-01	2.82E-01	1.70E+00	3.22E+02
25 MN 54	0.0	4.39E+03	8.38E+02	0.0	1.31E+03	0.0	1.34E+04
25 MN 56	0.0	1.10E+02	1.96E+01	0.0	1.40E+02	0.0	3.53E+03
25 FE 55	6.67E+02	1.07E+02	1.07E+02	0.0	0.0	2.57E+02	2.64E+02
26 FE 59	1.05E+03	2.47E+03	9.48E+02	0.0	0.0	6.91E+02	8.24E+03
27 CO 58	0.0	9.14E+01	2.05E+02	0.0	0.0	0.0	1.85E+03
27 CO 60	0.0	2.63E+02	5.79E+02	0.0	0.0	0.0	4.93E+03
28 NI 63M	3.15E+04	1.06E+03	1.06E+03	0.0	0.0	0.0	4.56E+02
28 NI 65	1.24E+02	1.66E+01	7.59E+00	0.0	0.0	0.0	4.22E+02
29 CU 64	0.0	1.02E+01	4.80E+00	0.0	2.58E+01	0.0	8.71E+02
30 ZN 65M	2.32E+04	7.38E+04	3.33E+04	0.0	4.93E+04	0.0	4.65E+04
30 ZN 69	4.93E+01	9.44E+01	6.56E+00	0.0	6.13E+01	0.0	1.42E+01
35 BR 83	0.0	0.0	4.05E+01	0.0	0.0	0.0	5.84E+01
35 BR 84	0.0	0.0	5.25E+01	0.0	0.0	0.0	4.12E-04
35 BR 85	0.0	0.0	2.16E+00	0.0	0.0	0.0	0.0
37 RH 86M	0.0	1.01E+05	4.71E+04	0.0	0.0	0.0	1.99E+04
37 RH 88	0.0	2.90E+02	1.54E+02	0.0	0.0	0.0	4.01E-00
37 RH 89	0.0	1.92E+02	1.35E+02	0.0	0.0	0.0	1.12E-11
38 SR 89	2.31E+04	0.0	6.62E+02	0.0	0.0	0.0	3.70E+03
38 SR 90	2.87E+05	0.0	7.71E+04	0.0	0.0	0.0	1.64E+04
38 SR 91	4.24E+02	0.0	1.71E+01	0.0	0.0	0.0	2.02E+03
38 SR 92	1.61E+02	0.0	6.96E+00	0.0	0.0	0.0	3.19E+03
39 Y 90	6.05E-01	0.0	1.62E-02	0.0	0.0	0.0	6.41E+03
39 Y 91	5.72E-03	0.0	2.21E-04	0.0	0.0	0.0	1.68E-02
39 Y 92	8.87E+00	0.0	2.37E-01	0.0	0.0	0.0	4.88E+03
39 Y 93	5.31E-02	0.0	1.55E-03	0.0	0.0	0.0	9.31E+02
40 ZR 95	1.69E-01	0.0	4.65E-03	0.0	0.0	0.0	5.34E+03
40 ZR 97	3.32E-01	1.07E-01	7.21E-02	0.0	1.67E-01	0.0	3.38E+02
41 NB 95	1.84E-02	3.70E-03	1.69E-03	0.0	5.59E-03	0.0	1.15E+03
42 MO 99	4.47E+02	2.49E+02	1.34E+02	0.0	2.46E+02	0.0	1.51E+06
43 TC 99	0.0	1.16E+02	2.21E+01	0.0	2.63E+02	0.0	2.69E+02
43 TC 101	9.62E-03	2.72E-02	3.46E-01	0.0	4.13E-01	1.33E-02	1.61E+01
44 RU 103	9.89E-03	1.43E-02	1.40E-01	0.0	2.57E-01	7.28E-03	4.28E-14
44 RU 105M	4.49E+00	0.0	2.15E+00	0.0	1.98E+01	0.0	5.82E+02
44 RU 106	4.15E-01	0.0	1.64E-01	0.0	5.37E+00	0.0	2.54E+02
47 AG 108M	7.42E+01	0.0	9.38E+00	0.0	1.43E+02	0.0	4.80E+03
52 TE 125	1.37E+00	1.56E+00	7.50E-01	0.0	2.48E+00	0.0	5.15E+02
52 TE 127	2.52E+03	9.33E+02	3.45E+02	7.74E+02	1.95E+04	0.0	1.03E+04
52 TE 129	6.50E+02	3.29E+03	7.93E+02	1.66E+03	2.64E+04	0.0	2.18E+04
52 TE 131	1.10E+02	4.19E+03	2.29E+01	7.63E+01	4.36E+02	0.0	8.34E+03
52 TE 133	3.02E+01	1.13E+02	7.15E+03	3.32E+03	4.61E+02	0.0	5.54E+04
52 TE 135	1.66E+03	1.13E+02	6.77E+00	2.32E+03	8.23E+05	0.0	2.28E+01
52 TE 137	1.89E+01	7.91E+00	5.98E+00	1.26E+03	8.29E+01	0.0	8.07E+04
52 TE 139	1.42E+03	1.57E+03	1.47E+03	1.73E+03	1.51E+04	0.0	2.68E+00
53 I 130M	2.94E+01	8.68E+01	3.43E+01	7.36E+03	1.35E+02	0.0	7.48E+01
53 I 131	1.62E+02	2.32E+02	1.33E+02	7.59E+04	1.97E+02	0.0	6.11E+01
53 I 132	7.90E+00	2.11E+01	7.40E+00	7.40E+02	3.37E+01	0.0	3.97E+00
53 I 133	5.53E+01	9.62E+01	2.93E+01	1.41E+04	1.68E+02	0.0	8.64E+01
53 I 134	4.13E+00	1.12E+01	4.01E+00	1.94E+02	1.78E+01	0.0	9.77E-03
53 I 135	1.72E+01	4.52E+01	1.67E+01	2.98E+03	7.24E+01	0.0	5.10E+01
55 CS 134	2.98E+05	7.02E+05	5.80E+05	0.0	2.29E+05	7.62E+04	1.24E+04
55 CS 136	3.12E+04	1.23E+05	8.86E+04	0.0	9.85E+04	9.39E+03	1.40E+04
55 CS 137	3.82E+05	5.02E+05	3.42E+05	0.0	1.77E+05	5.80E+04	1.01E+04
55 CS 138	2.64E+02	5.22E+02	2.59E+02	0.0	3.84E+02	3.79E+01	2.23E-03

56 BA 139	1.22E+00	8.71E-04	3.58E-02	0.0	8.16E-04	4.94E-04	2.17E+00
56 BA 141	5.94E-01	4.49E-04	2.00E-02	0.0	4.17E-04	2.55E-04	2.80E-10
56 BA 142	2.68E-01	2.76E-04	1.69E-02	0.0	2.33E-04	1.56E-04	3.78E-19
57 LA 140	1.57E-01	7.92E-02	2.02E-02	0.0	0.0	0.0	5.82E+03
57 LA 142	8.05E-03	3.66E-03	9.12E-04	0.0	0.0	0.0	2.67E+01
58 CE 141	5.07E-02	3.43E-02	3.89E-03	0.0	1.59E-02	0.0	1.31E+02
58 CE 143M	8.94E-03	6.61E+00	7.32E+04	0.0	2.91E-03	0.0	2.47E+02
58 CF 144	2.65E+00	1.11E+00	1.42E-01	0.0	6.56E-01	0.0	8.94E+02
59 PR 143	5.79E-01	2.32E-01	2.87E-02	0.0	1.34E-01	0.0	2.53E+03
59 PR 144	1.89E-03	7.86E-04	4.62E-05	0.0	4.43E-04	0.0	2.72E-10
60 ND 147	3.95E-01	4.57E-01	2.74E-02	0.0	2.67E-01	0.0	2.19E+03
74 W 187	2.96E+02	2.40E+02	8.66E+01	0.0	0.0	0.0	8.11E+04
93 NP 239	3.21E-02	3.16E-03	1.74E-03	0.0	8.84E-03	0.0	6.47E+02

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TABLE WILL BE 3 PAGES AFTER TYPING

## A5.0 RADIOLOGICAL ENVIRONMENTAL MONITORING

The radiological environmental monitoring program shall be conducted in accordance with Technical Specification 4.11.

The monitoring program locations and analyses are given in Tables A5.0-1 through A5.0-3 and Figure A5.0-1.

Site specific characteristics make ground water sampling, special low-level I-131 analyses on drinking water, and food product sampling unnecessary. Ground water recharge is from precipitation and the ground water gradient is toward the effluent discharge area; therefore, contamination of ground water from liquid effluents is highly improbable. Special low level I-131 analyses in drinking water will not be performed routinely since the expected I-131 dose from this pathway is less than 1 mrem/year. Food products will not be sampled since lake water irrigation of crops is not practiced in the vicinity.

The laboratory performing the radiological environmental analyses shall participate in an interlaboratory comparison program which has been approved by the NRC. This program is the Environmental Protection Agency's (EPA's) Environmental Radioactivity Laboratory Intercomparison Studies (Crosscheck) Program, our participation code is CP.

TABLE A5.0-1  
(1 of 1)

OCONEE RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS

(TLD LOCATIONS)

SAMPLING LOCATION DESCRIPTION *			SAMPLING LOCATION DESCRIPTION *		
020	SITE BOUNDARY	(0.2 MILES N)	040	4-5 MILE RADIUS	(4.5 MILES E)
021	SITE BOUNDARY	(0.2 MILES NNE)	041	4-5 MILE RADIUS	(4.0 MILES ESE)
022	SITE BOUNDARY	(0.5 MILES NE)	042	4-5 MILE RADIUS	(5.0 MILES SE)
023	SITE BOUNDARY	(0.9 MILES ENE)	043	4-5 MILE RADIUS	(4.0 MILES SSE)
024	SITE BOUNDARY	(0.8 MILES E)	044	4-5 MILE RADIUS	(4.0 MILES S)
025	SITE BOUNDARY	(0.6 MILES ESE)	045	4-5 MILE RADIUS	(5.0 MILES SSW)
026	SITE BOUNDARY	(0.3 MILES SE)	046	4-5 MILE RADIUS	(4.5 MILES SW)
027	SITE BOUNDARY	(0.3 MILES SSE)	047	4-5 MILE RADIUS	(4.0 MILES WSW)
028	SITE BOUNDARY	(0.5 MILES S)	048	4-5 MILE RADIUS	(4.0 MILES W)
029	SITE BOUNDARY	(0.6 MILES SSW)	049	4-5 MILE RADIUS	(4.0 MILES WNW)
030	SITE BOUNDARY	(0.4 MILES SW)	050	4-5 MILE RADIUS	(4.0 MILES NW)
031	SITE BOUNDARY	(0.2 MILES WSW)	051	4-5 MILE RADIUS	(4.5 MILES NNW)
032	SITE BOUNDARY	(0.2 MILES W)	052	SPECIAL INTEREST	(12.0 MILES ENE)
033	SITE BOUNDARY	(0.2 MILES WNW)	053	SPECIAL INTEREST	(11.0 MILES E)
034	SITE BOUNDARY	(0.2 MILES NW)	054	SPECIAL INTEREST	(9.5 MILES ESE)
035	SITE BOUNDARY	(0.1 MILES NNW)	055	SPECIAL INTEREST	(9.5 MILES SSE)
036	4-5 MILE RADIUS	(4.0 MILES N)	056	SPECIAL INTEREST	(8.5 MILES SSW)
037	4-5 MILE RADIUS	(4.5 MILES NNE)	057	SPECIAL INTEREST	(9.0 MILES SW)
038	4-5 MILE RADIUS	(4.0 MILES NE)	058	SPECIAL INTEREST	(10.0 MILES WSW)
039	4-5 MILE RADIUS	(4.0 MILES ENE)	059	SPECIAL INTEREST	(9.0 MILES NW)

\* All sampling locations are collected quarterly



TABLE A5.0-2  
(1 of 1)

OCONEE RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS  
(OTHER SAMPLING LOCATIONS)

CODE:

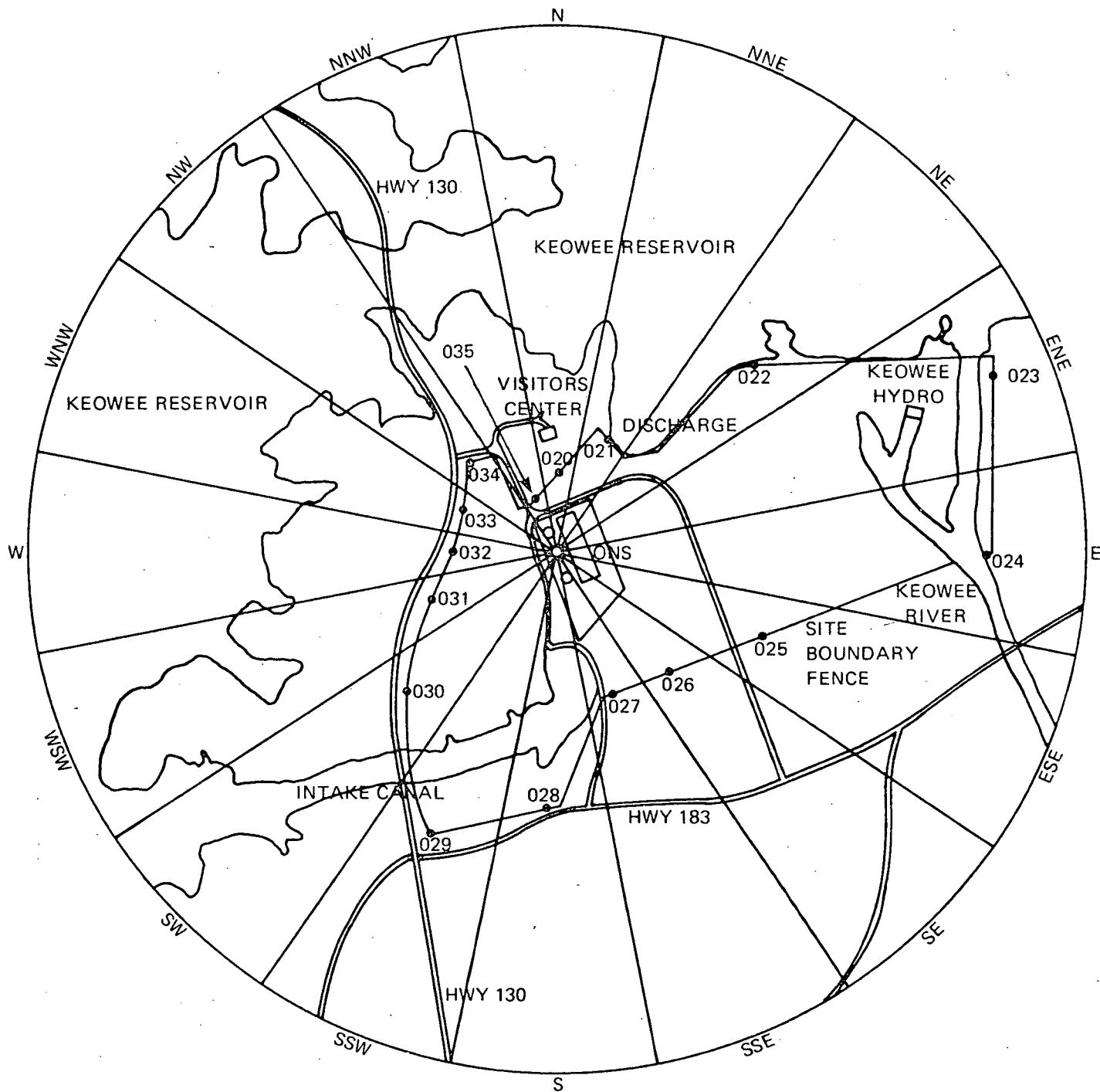
W - Weekly  
SM - Semimonthly  
M - Monthly      SA - Semiannually

SAMPLING LOCATION DESCRIPTION		Air Radioiodines and Particulates	Surface Water	Drinking Water	Shoreline Sediment	Milk	Fish	Broadleaf Vegetation
028	Site Boundary (0.5 miles S)							M
060	New Greenville Water Intake Rd. (2.5 miles NNE)	W						
061	Old Hwy. 183 (1.5 miles SSW)	W						
062	Lake Kewoee/Hydro Intake (0.7 mile ENE) (CONTROL)		M					
063	Lake Hartwell - Hwy 183 Bridge (0.8 mile ESE) (000.7)		M					SA
064	Seneca (6.7 miles SW) (004.1) (CONTROL)			M				SA
065	Clemson (8.1 miles SSE) (006.1)			M				
066	Anderson (19.0 miles SSE) (012) (CONTROL FOR MILK ONLY)			M		SM		
067	Lawrence Ramsey Bridge, Hwy 27 (4.2 miles SSE) (005.2)				SA			
068	High Falls County Park (2.0 miles W) (CONTROL)				SA			
069	Powell Residence (4.5 miles WNW) (002.1)					SM		
070	(Deleted)							
071	Clemson Dairy (10.3 miles SSE) (006.3)					SM		
072	Hwy 130 (1.7 miles S)	W						
073	Tamassee Dar School (9.0 miles NW) (CONTROL)	W						M
074	Keowee Kee Resort (1.7 miles NNW)	W						

TABLE A5.0-3  
(1 of 1)

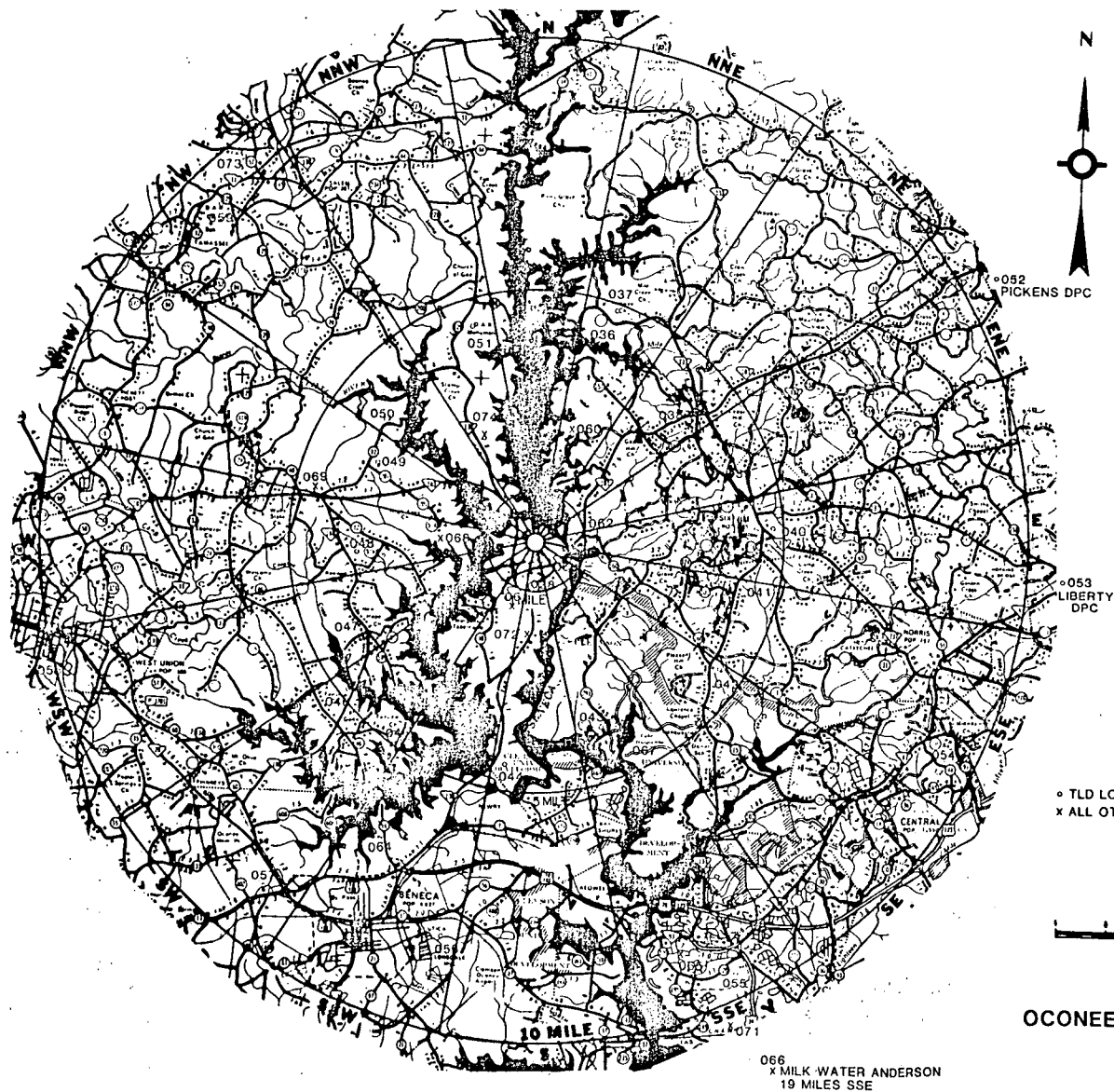
OCONEE RADIOLOGICAL MONITORING PROGRAM ANALYSES

<u>SAMPLE MEDIUM</u>	<u>ANALYSIS SCHEDULE</u>	<u>ANALYSES</u>				
		<u>GAMMA ISOTOPIC</u>	<u>TRITIUM</u>	<u>LOW LEVEL I-131</u>	<u>GROSS BETA</u>	<u>TLD</u>
1. Air Radioiodine and Particulates	Weekly	X				
2. Direct Radiation	Quarterly					X
3. Surface Water	Monthly Quarterly Composite	X	X			
4. Drinking Water	Monthly Quarterly Composite	X	X		X	
5. Shoreline Sediment	Semiannually	X				
6. Milk	Semimonthly	X		X		
7. Fish	Semiannually	X				
8. Broadleaf Vegetation	Monthly		X			



● TLD LOCATIONS

RADIOLOGICAL MONITORING  
PROGRAM LOCATIONS  
OCONEE NUCLEAR STATION  
FIGURE A5.0-1  
(2 OF 2)



**LEGEND**

CITIES & TOWNS	ROADS	RAILROADS	WATER	TOPOGRAPHY	OTHER
City	Interstate	Class 1	Major Waterway	Contour	Spot Elevation
Town	State	Class 2	Minor Waterway	Spot Elevation	Spot Elevation
Village	County	Class 3	Stream	Spot Elevation	Spot Elevation
Hamlet	Local	Class 4	Drainage	Spot Elevation	Spot Elevation
Unincorporated	Unimproved	Class 5	Wetland	Spot Elevation	Spot Elevation
		Class 6	Swamp	Spot Elevation	Spot Elevation
		Class 7	Marsh	Spot Elevation	Spot Elevation
		Class 8	Shrubland	Spot Elevation	Spot Elevation
		Class 9	Forest	Spot Elevation	Spot Elevation
		Class 10	Barren	Spot Elevation	Spot Elevation
		Class 11	Water	Spot Elevation	Spot Elevation
		Class 12	Water	Spot Elevation	Spot Elevation
		Class 13	Water	Spot Elevation	Spot Elevation
		Class 14	Water	Spot Elevation	Spot Elevation
		Class 15	Water	Spot Elevation	Spot Elevation
		Class 16	Water	Spot Elevation	Spot Elevation
		Class 17	Water	Spot Elevation	Spot Elevation
		Class 18	Water	Spot Elevation	Spot Elevation
		Class 19	Water	Spot Elevation	Spot Elevation
		Class 20	Water	Spot Elevation	Spot Elevation
		Class 21	Water	Spot Elevation	Spot Elevation
		Class 22	Water	Spot Elevation	Spot Elevation
		Class 23	Water	Spot Elevation	Spot Elevation
		Class 24	Water	Spot Elevation	Spot Elevation
		Class 25	Water	Spot Elevation	Spot Elevation
		Class 26	Water	Spot Elevation	Spot Elevation
		Class 27	Water	Spot Elevation	Spot Elevation
		Class 28	Water	Spot Elevation	Spot Elevation
		Class 29	Water	Spot Elevation	Spot Elevation
		Class 30	Water	Spot Elevation	Spot Elevation
		Class 31	Water	Spot Elevation	Spot Elevation
		Class 32	Water	Spot Elevation	Spot Elevation
		Class 33	Water	Spot Elevation	Spot Elevation
		Class 34	Water	Spot Elevation	Spot Elevation
		Class 35	Water	Spot Elevation	Spot Elevation
		Class 36	Water	Spot Elevation	Spot Elevation
		Class 37	Water	Spot Elevation	Spot Elevation
		Class 38	Water	Spot Elevation	Spot Elevation
		Class 39	Water	Spot Elevation	Spot Elevation
		Class 40	Water	Spot Elevation	Spot Elevation
		Class 41	Water	Spot Elevation	Spot Elevation
		Class 42	Water	Spot Elevation	Spot Elevation
		Class 43	Water	Spot Elevation	Spot Elevation
		Class 44	Water	Spot Elevation	Spot Elevation
		Class 45	Water	Spot Elevation	Spot Elevation
		Class 46	Water	Spot Elevation	Spot Elevation
		Class 47	Water	Spot Elevation	Spot Elevation
		Class 48	Water	Spot Elevation	Spot Elevation
		Class 49	Water	Spot Elevation	Spot Elevation
		Class 50	Water	Spot Elevation	Spot Elevation
		Class 51	Water	Spot Elevation	Spot Elevation
		Class 52	Water	Spot Elevation	Spot Elevation
		Class 53	Water	Spot Elevation	Spot Elevation
		Class 54	Water	Spot Elevation	Spot Elevation
		Class 55	Water	Spot Elevation	Spot Elevation
		Class 56	Water	Spot Elevation	Spot Elevation
		Class 57	Water	Spot Elevation	Spot Elevation
		Class 58	Water	Spot Elevation	Spot Elevation
		Class 59	Water	Spot Elevation	Spot Elevation
		Class 60	Water	Spot Elevation	Spot Elevation
		Class 61	Water	Spot Elevation	Spot Elevation
		Class 62	Water	Spot Elevation	Spot Elevation
		Class 63	Water	Spot Elevation	Spot Elevation
		Class 64	Water	Spot Elevation	Spot Elevation
		Class 65	Water	Spot Elevation	Spot Elevation
		Class 66	Water	Spot Elevation	Spot Elevation
		Class 67	Water	Spot Elevation	Spot Elevation
		Class 68	Water	Spot Elevation	Spot Elevation
		Class 69	Water	Spot Elevation	Spot Elevation
		Class 70	Water	Spot Elevation	Spot Elevation
		Class 71	Water	Spot Elevation	Spot Elevation
		Class 72	Water	Spot Elevation	Spot Elevation
		Class 73	Water	Spot Elevation	Spot Elevation
		Class 74	Water	Spot Elevation	Spot Elevation
		Class 75	Water	Spot Elevation	Spot Elevation
		Class 76	Water	Spot Elevation	Spot Elevation
		Class 77	Water	Spot Elevation	Spot Elevation
		Class 78	Water	Spot Elevation	Spot Elevation
		Class 79	Water	Spot Elevation	Spot Elevation
		Class 80	Water	Spot Elevation	Spot Elevation
		Class 81	Water	Spot Elevation	Spot Elevation
		Class 82	Water	Spot Elevation	Spot Elevation
		Class 83	Water	Spot Elevation	Spot Elevation
		Class 84	Water	Spot Elevation	Spot Elevation
		Class 85	Water	Spot Elevation	Spot Elevation
		Class 86	Water	Spot Elevation	Spot Elevation
		Class 87	Water	Spot Elevation	Spot Elevation
		Class 88	Water	Spot Elevation	Spot Elevation
		Class 89	Water	Spot Elevation	Spot Elevation
		Class 90	Water	Spot Elevation	Spot Elevation
		Class 91	Water	Spot Elevation	Spot Elevation
		Class 92	Water	Spot Elevation	Spot Elevation
		Class 93	Water	Spot Elevation	Spot Elevation
		Class 94	Water	Spot Elevation	Spot Elevation
		Class 95	Water	Spot Elevation	Spot Elevation
		Class 96	Water	Spot Elevation	Spot Elevation
		Class 97	Water	Spot Elevation	Spot Elevation
		Class 98	Water	Spot Elevation	Spot Elevation
		Class 99	Water	Spot Elevation	Spot Elevation
		Class 100	Water	Spot Elevation	Spot Elevation

• TLD LOCATIONS  
x ALL OTHER LOCATIONS

SCALE OF MILES

FIGURE A5.0-1  
(1 OF 2)  
OCONEE NUCLEAR STATION

REDUCED FOR DRAFT VERSION

ORIGINAL RED LETTERING ON BLACK BACKGROUND