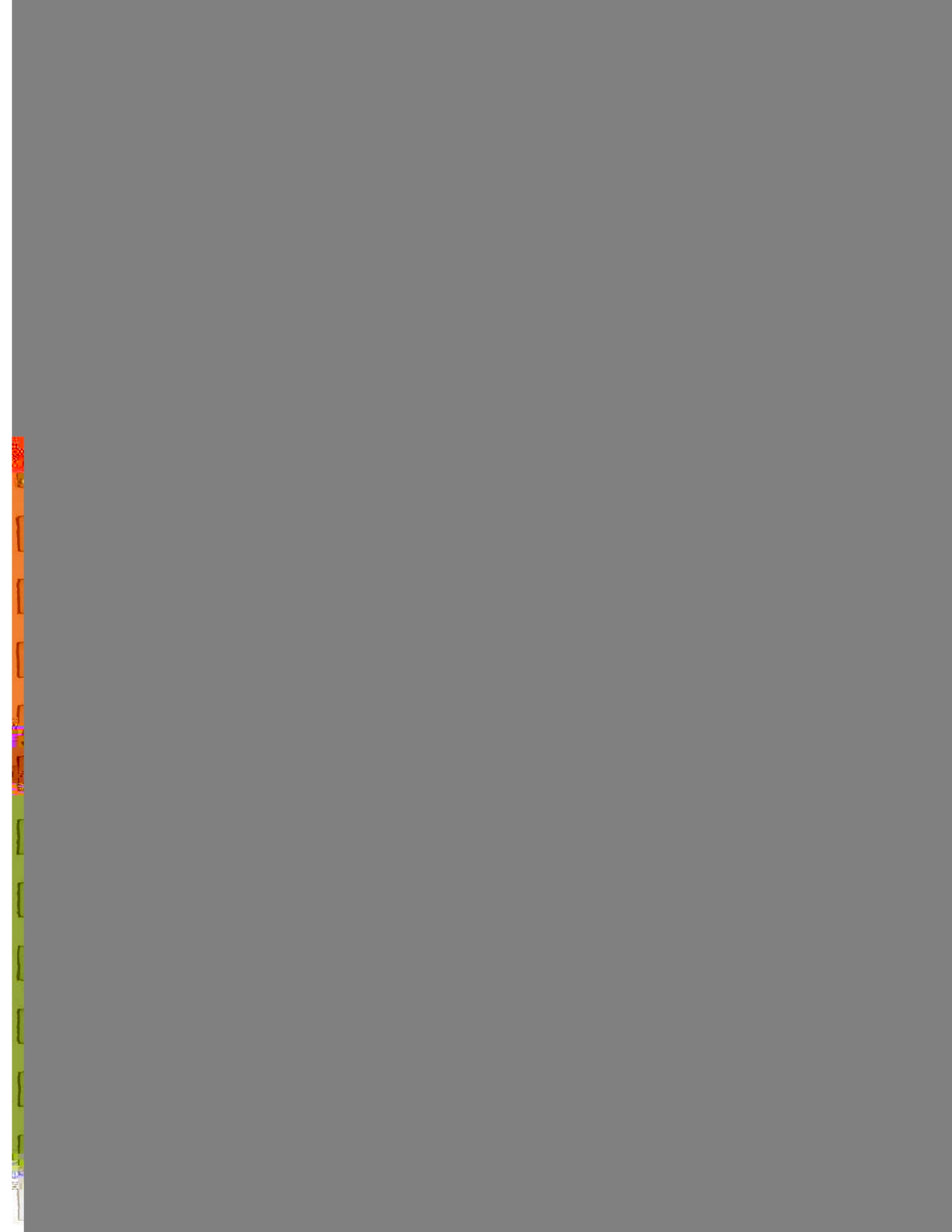
Fig. 3.4. The Arrangement of Gears for the Gear Concept.



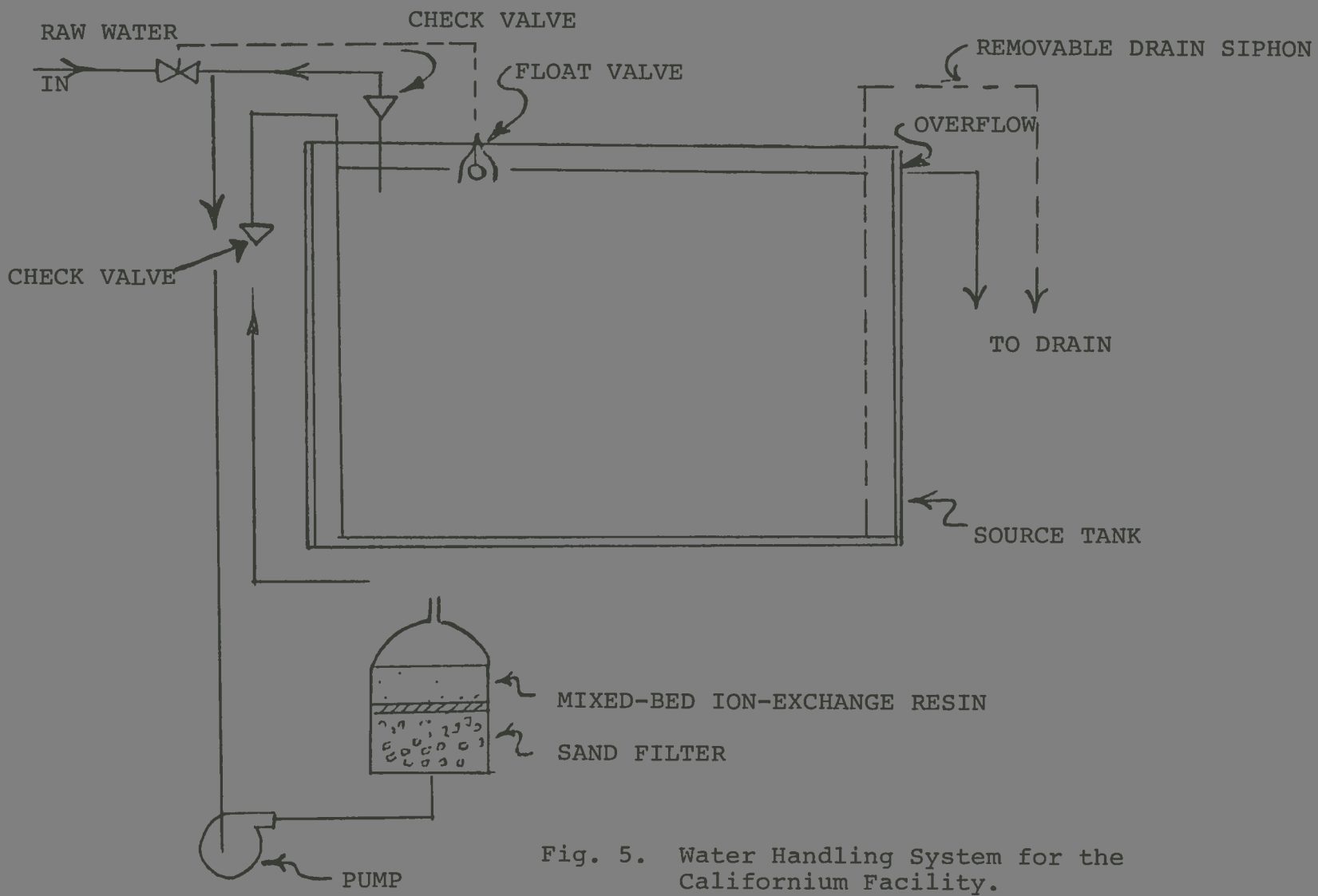



Fig. 5. Water Handling System for the Californium Facility.

# Appendix 2

# Instructions for Using CASK

| Card No. | FORMAT | VARIABLE | DESCRIPTION |
|---|---|---|---|
| 1 | E15.3 | SCI | Source strength in Curies |
| 1 | F10.3 | EMAX | Energy of gamma in "MeV" |
| 1 | F10.3 | XMUSO | Linear attenuation coefficient for source material($cm^{-1}$) |
| 1 | F10.3 | DMWL | Maximum dose rate desired at shield surface in mrem/hr |
| 1 | F10.3 | RAD | Radius of spherical source (cm) |
| 2 | F10.3 | XAB | Mass energy transfer coefficient for air or tissue at source energy in $cm^2/g$ |
| 2 | 3F10.3 | A1,A2, A3 | Taylor's dose buildup factors A2 has sign changed in the program |
| 2 | F10.3 | XMU | Linear attenuation coefficient for shield material $\mu_\ell$($cm^{-1}$) |
| 3 | F10.3 | XO | Initial "crude" guess for shield thickness (cm) |
| 3 | I6 | KPRIN | KPRIN=-1, Index for controlling detailed printout: to suppress printout |