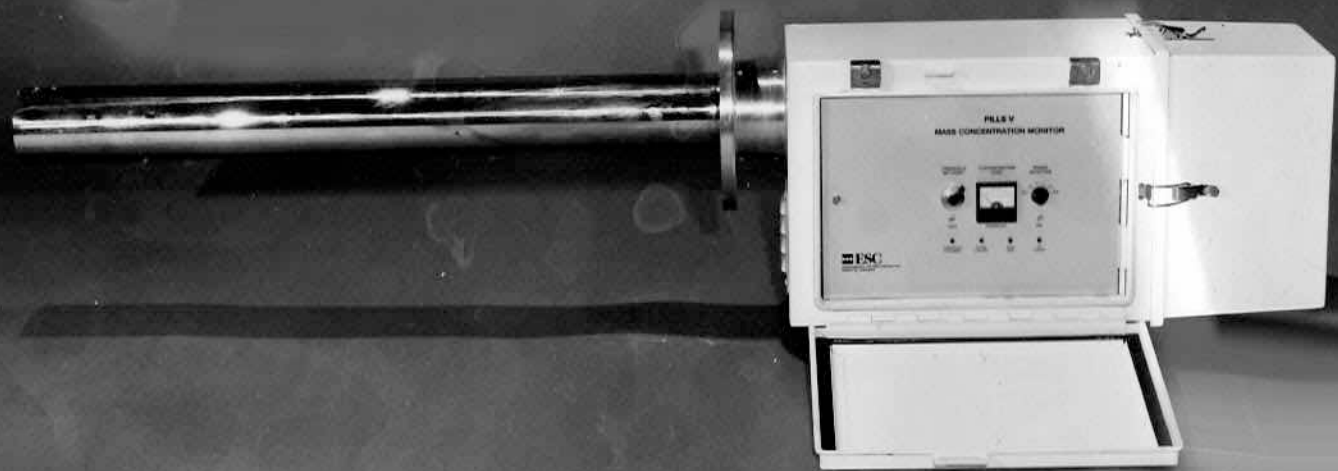


ENVIRONMENTAL SYSTEMS CORPORATION

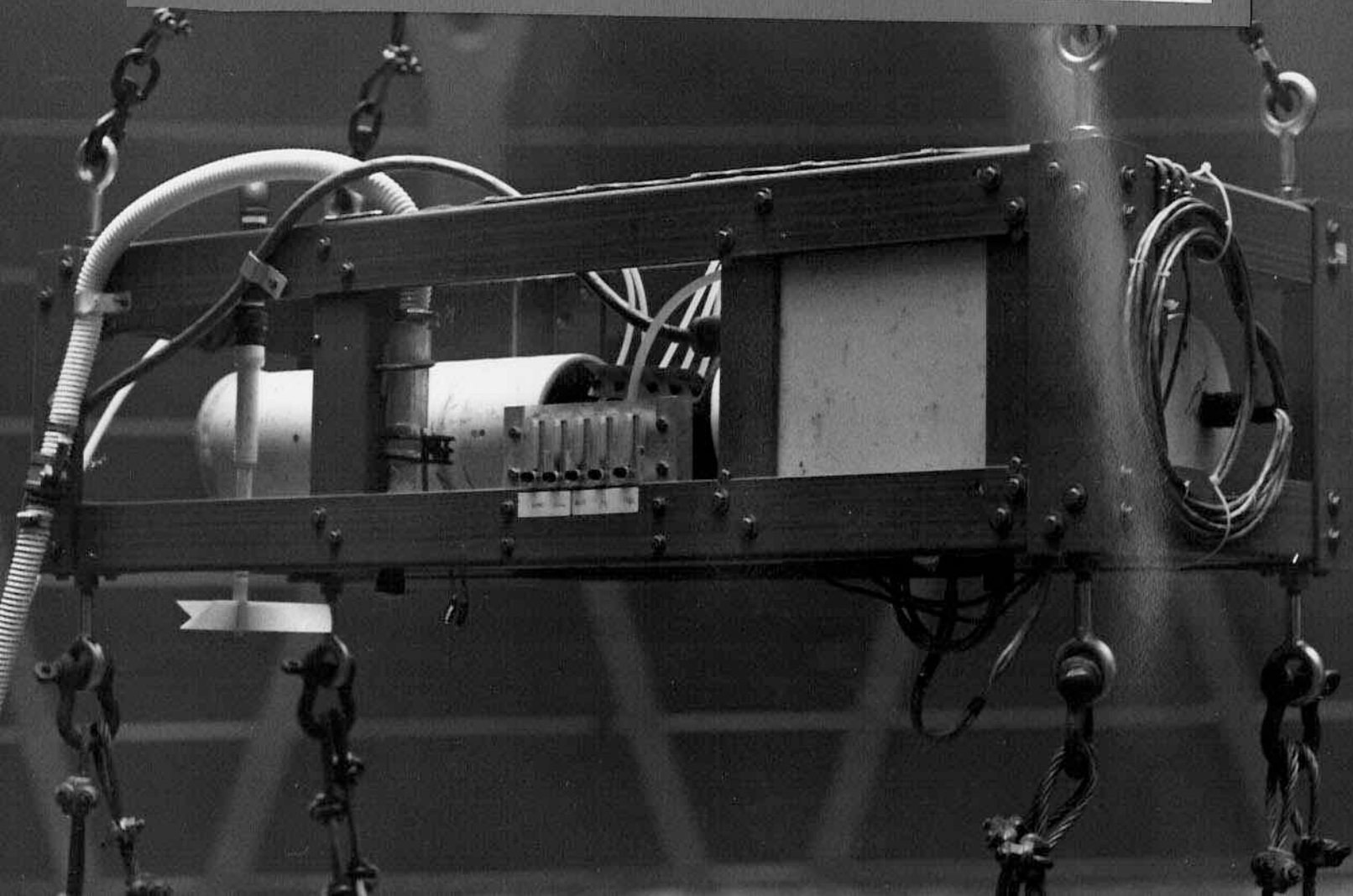
Post Office Box 2525 / Knoxville, Tennessee 37901 / (615) 573-7931

AIRBORNE PARTICLE MONITORING SYSTEM (APS)*

At the time there were no working drawings of any of the equipment that ESC manufactured. This became my responsibility.



My first job was to assemble many instruments into a carrier. Early Prototype PILLS-II-A laser particulate monitor and electronics shown.



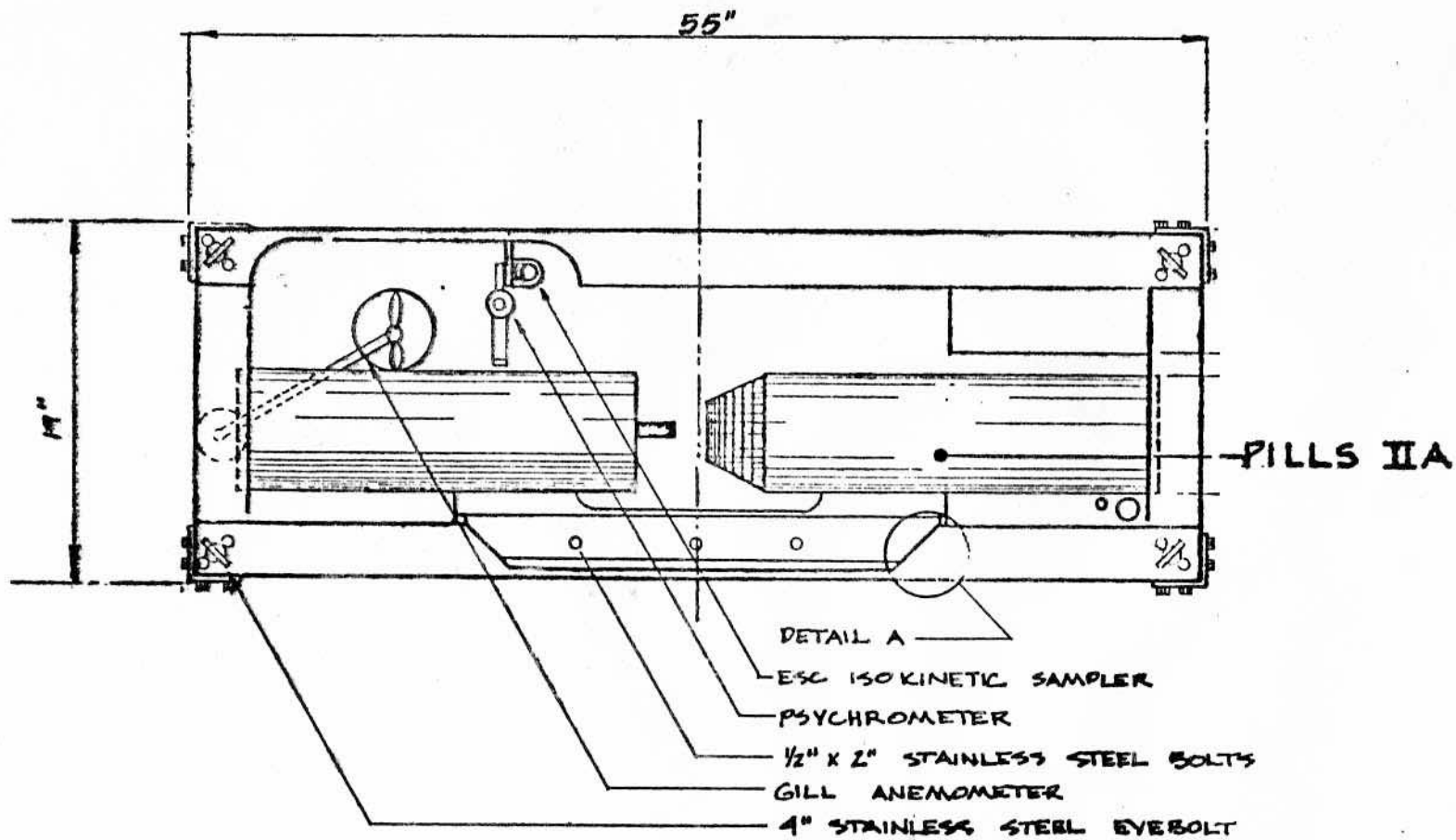
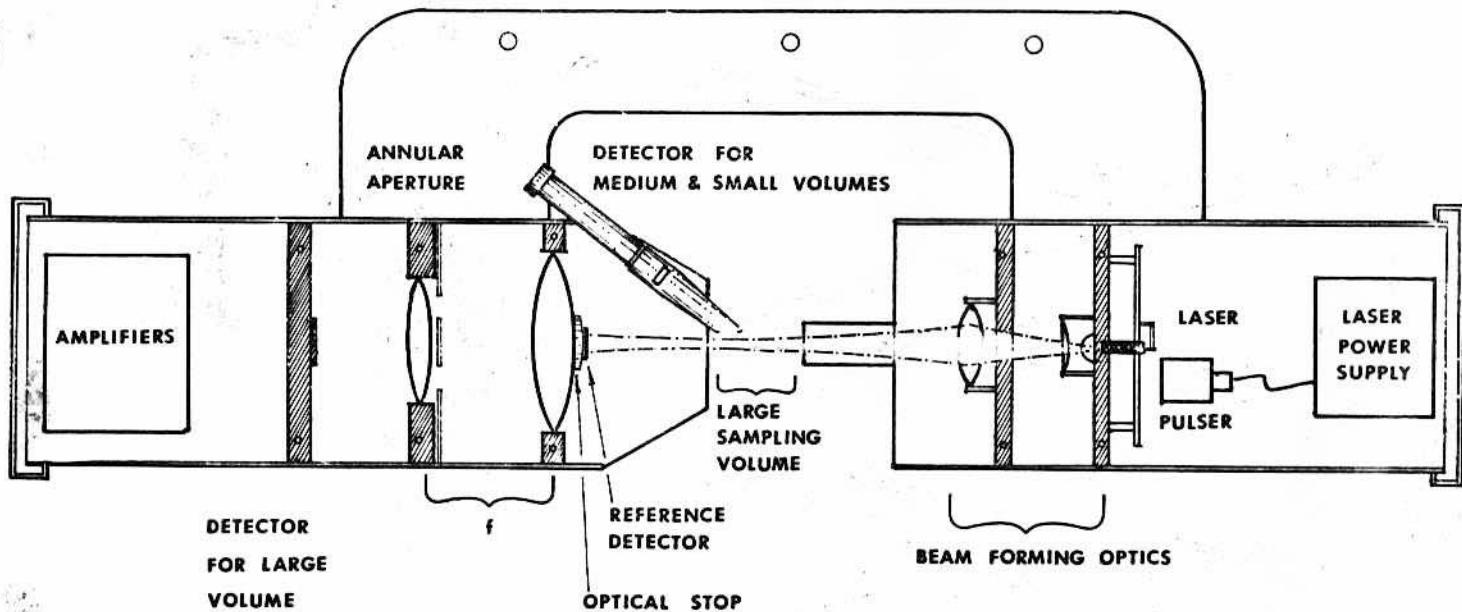


FIGURE 3
INSTRUMENTATION CARRIAGE

ENVIRONMENTAL SYSTEMS CORPORATION
POST OFFICE BOX 2525
KNOXVILLE TENNESSEE

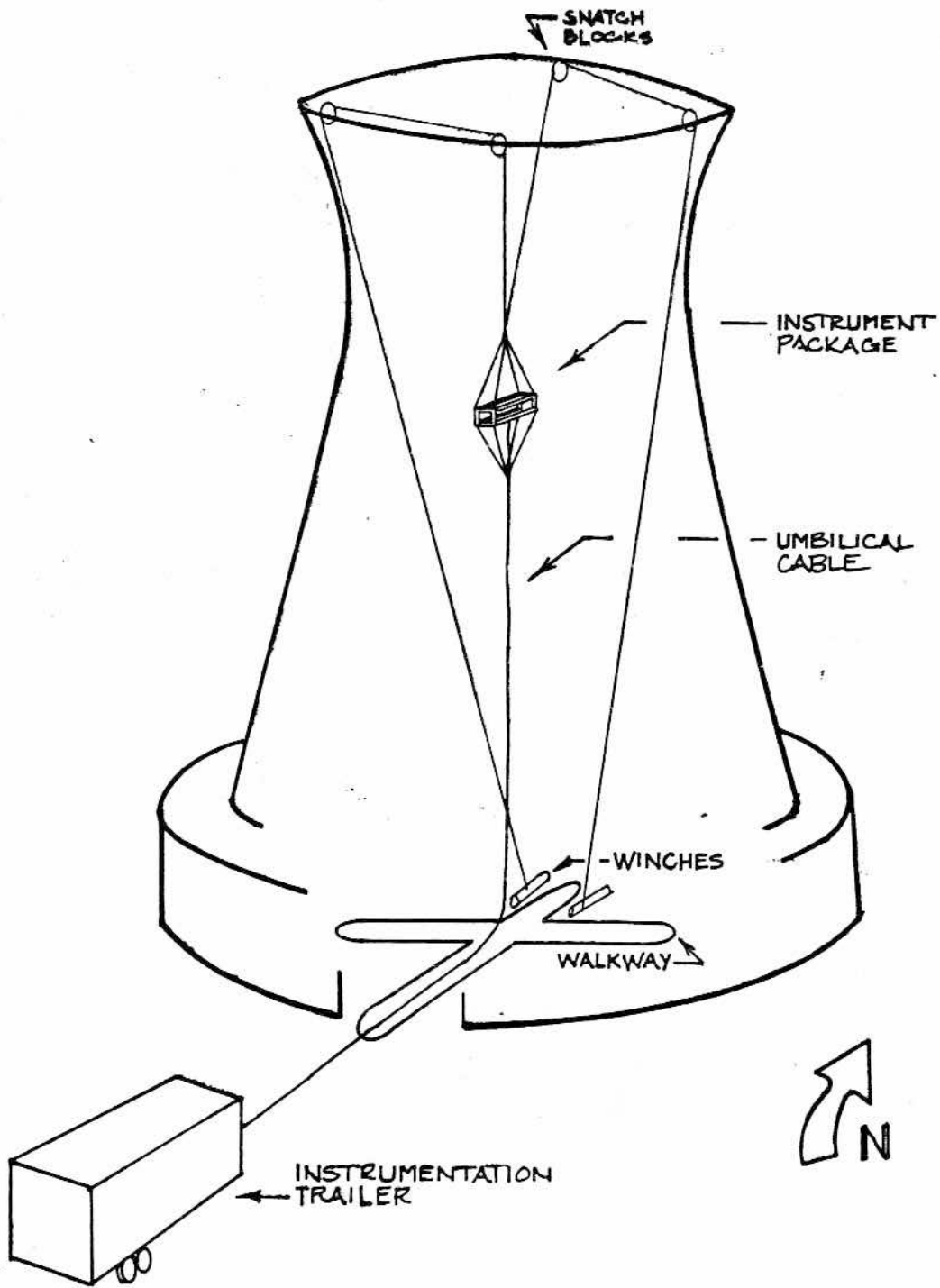
DRAWN	cc		SCALE = 1:10
APPROV			



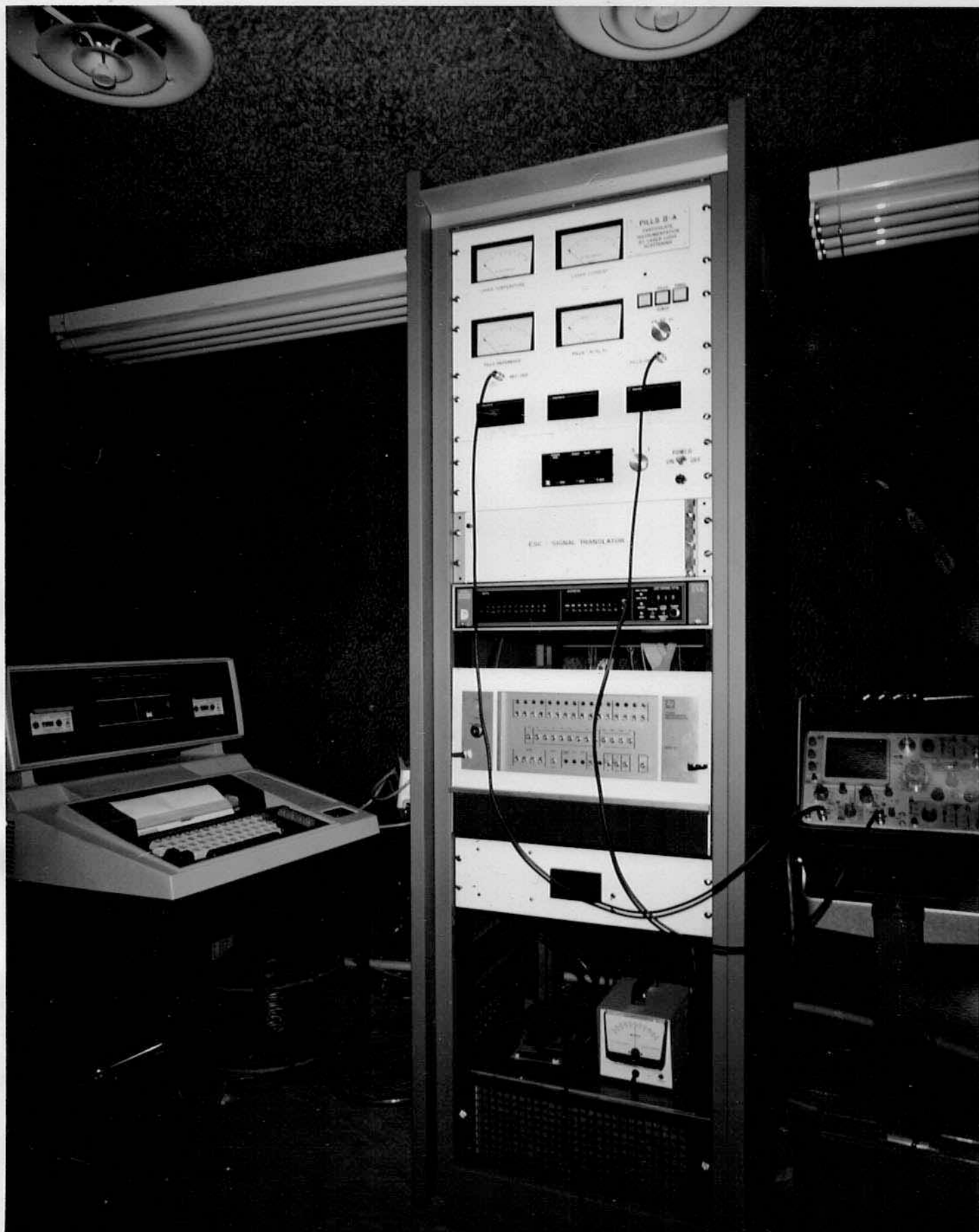
ENVIRONMENTAL SYSTEMS CORPORATION
 POST OFFICE BOX 2525
 KNOXVILLE TENNESSEE

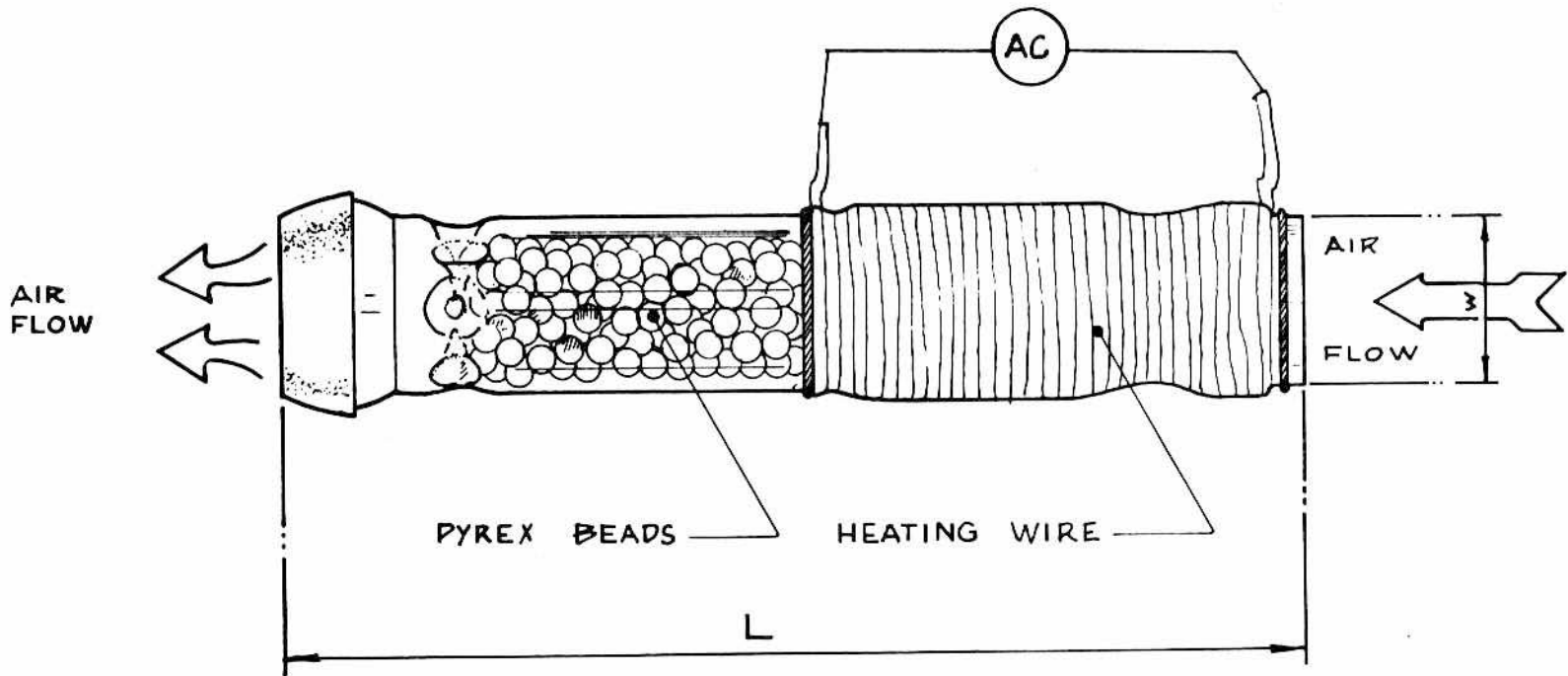
SECTION, PILLS IIA

DRAWN	CC		
APPROVD			



CHALK POINT COOLING TOWER SUSPENSION SYSTEM





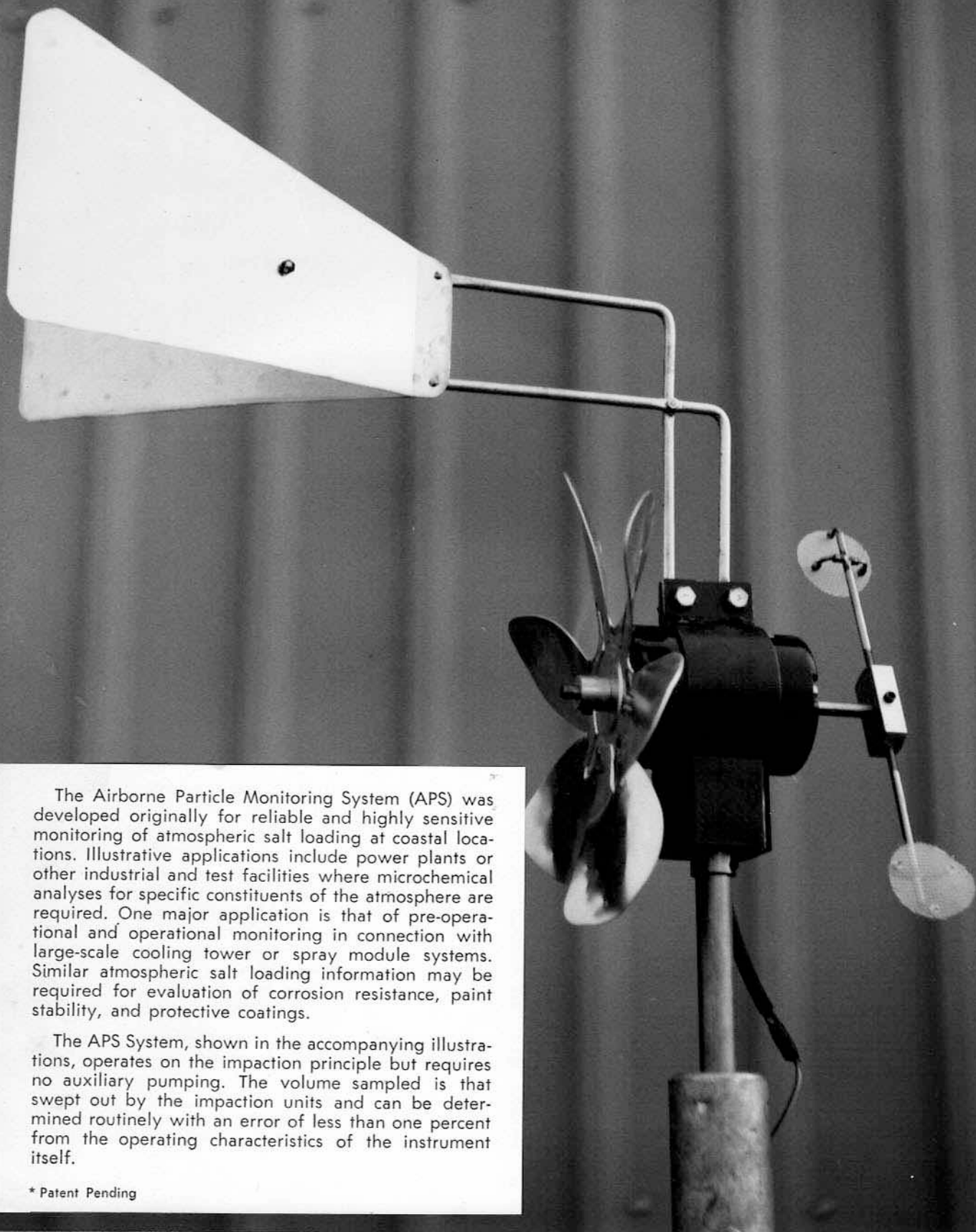
ISOKINETIC SAMPLER

ENVIRONMENTAL SYSTEMS CORPORATION
 POST OFFICE BOX 2525
 KNOXVILLE TENNESSEE

EXC ISOKINETIC TUBE

Scale: CC FULL SCALE
 7/17/70





The Airborne Particle Monitoring System (APS) was developed originally for reliable and highly sensitive monitoring of atmospheric salt loading at coastal locations. Illustrative applications include power plants or other industrial and test facilities where microchemical analyses for specific constituents of the atmosphere are required. One major application is that of pre-operational and operational monitoring in connection with large-scale cooling tower or spray module systems. Similar atmospheric salt loading information may be required for evaluation of corrosion resistance, paint stability, and protective coatings.

The APS System, shown in the accompanying illustrations, operates on the impaction principle but requires no auxiliary pumping. The volume sampled is that swept out by the impaction units and can be determined routinely with an error of less than one percent from the operating characteristics of the instrument itself.

* Patent Pending

