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**Pacific Northwest Laboratory
Operated for the U.S. Department of Energy
by Battelle Memorial Institute**



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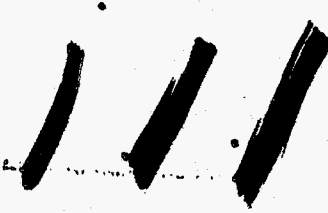
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JEB/mj

200 TECHNICAL DIVISION
PROCESS SECTION CHIEF

J. B. WORK

J. B. Work

This letter will itemize the miscellaneous equipment and supplies not previously specified which should be ordered to equip the 234-5 Chemical Development Laboratory. Equipment currently carried in store stock is not included in this list. The vendor is given only to identify the item or as a suggested source of supply. It will be satisfactory to obtain any item from other vendors if equivalent equipment is thereby obtained.

CHEMICAL DEVELOPMENT LABORATORY
SPECIFICATION NUMBER 234-5 (SUPPLEMENT D)

234-5 PROJECT

No. 23

D. D. Strala
Design Engineering Division

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October 22, 1948

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MAY 22 1956

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By *Dr. Hanson, 3-25-92*
1-20-92, 6-PR-2
By Authority of *CH Henager*

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- 11 E. 2 MD Strala - 234-5 111a
- 13 JR Creason
- 14 ER Wilson
- 15 WI Farnode - 700 111a
- 16 AB Greeninger - CH Greager
- 17 EH Beaton - JB Work
- 18 T Prudlow - B Weidenbaum
- 19 CH Gross - WK MacCreedy - RB Bell
- 20 HM Farnor - RF Baynour
- 21 ABC, Harford Operations Office,
- Attn: JC Soblemmer, Mgr.
- 22-17 D & C 111a
- 23-22 700 111a
- 23-300 111a
- 24 Plan
- 25 Follow

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<u>QTY. NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>	<u>VENDOR & CMT. NO.</u>
1	2	Hot Plates, three heat, 6" dia. plate, 600-300-150 watts	Arthur H. Thomas #6170
	1	Gas Motor, Sargent Wet Test Motor	Arthur H. Thomas #2822
	1	Stirring Apparatus consisting of Support, Rod, Motor & Reducing Gears	Arthur H. Thomas #9238
	1	Vacuum Tester, high frequency, 115 V AC	Fisher Scientific #1-179
	1	Stokes McLeod Gage, portable, indicating, 1-500 micron range with lowest calibrated reading 1/10 micron	F. J. Stokes Machine Co.
6	1	Stokes McLeod Gage as above, but with 1-5000 micron range	F. J. Stokes Machine Co.
7	1	Microammeter, portable, range 0-100 mv. with accuracy to 0.1 mv.	Leeds & Northrup
8	1	Vacuum Pump, Hypervac-20 mounted with 1/2 HP, 115/230 V motor	Distillation Products Item # 5900
9	2 Gal.	Oil for Hypervac Pump	Fisher - #1-118
10	2 Lb.	Celvacene - Heavy	Distillation Products #8130
11	1	Model 1392 Combination Duo-Seal Mechanical Pump & Diffusion Pump. Diffusion pump to be water-cooled & for operation on 110 V AC; complete with recommended pump oils.	Wm. Welch Scientific Co.
12	1	Hydrogen Ion Meter, laboratory type, Beckman Model C	Central Scientific #21075
13	3 Ea.	Calomel & Glass Electrodes for Beckman Model G Meter	Central Scientific #21076
14	1 Set	Bosker & Adapter, 0.5 gal. for use on Beckman Model G	Central Scientific #21082 A
15	1	Balance, specific gravity, Westphal	Central Scientific #7600
16	1	Oil Diffusion Pump, Type MB-200 Metal Booster Pump	Distillation Products
17	1	Barometer, Mercurial with scale range 600 to 800 mm. filled with redistilled mercury	Cenco 76890

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<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>	<u>VENDOR & CAT. NO.</u>
18	1	Mounting for barometer	Cenco 76893
19	1	Portable flow testing kit, Fisher & Porter wide range laboratory kit with three Fig. 735-III metal fitted Flowrator meters.	Fisher & Porter Illustration 25
20	2	Stirrers, Aero-Mix, compressed air-driven	Central Scientific #18862
21	2	Balances, Triple Beam, Metric	Cenco 3620
22	2	Attachment Weights for Balance	Cenco 3622 A
23	1	Balance, Agate-Bearing trip scale, single beam, metric	Cenco 3561
24	1 Set	Weights, Metric Tall Form, Class I Largest valve 2000 grams, smallest valve 1 gram	Cenco 9125 E
25	1	Constant temperature Water Bath, electrically heated & controlled	Cenco 97100
26	1	Magnifier, Tripod	Cenco 60010
27	1	Mortar, Agate, 50 mm. diam.	Central Scientific #17350 B
28	1	Mortar, Agate, 100 mm. diam.	Central Scientific #17381 E
29	2	Mortar, Porcelain, Coors	Central Scientific #17381 C
30	12	Ground Glass Joints, full length complete 24/40	Corning 6540
31	1	Spectrophotometer, Beckman photo- electric, Model Du	National Technical Laboratories, 2500
32	6	Absorption Cells, one cm. square	National Technical Laboratories, 2310-C10
33	1	Research Microscope, Model CTAV	Bausch & Lomb 31-21-88-08
34	1	Spherical Microscope Lamp	Bausch & Lomb 31-33-73-61
35	1	Stereo Polarizer Equipment	B & L 31-57-50-11
36	1	Whipple Micrometer Disc	B & L 31-16-13

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<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>	<u>VENDOR & CAT. NO.</u>
37	1	Potentiometer Indicator, double range, portable	Leeds & Northrup No. 8657-C
38	1	Potentiometer. Type K-2	Leeds & Northrup No. 7592
39	1	Galvanometer for use with K-2 potentiometer	Leeds & Northrup No. 2420-b
40	1	Standard Cell for use with K-2 potentiometer	Leeds & Northrup No. 7308
41	1	Burrell Wrist Action Shaker A75-775 Size C, complete with clamps	Burrell Technical Supply Co., Pittsburgh, Pa.
42	1	Variac, Type V-5HE	General Radio Co.
43	1	Variac, Type V-5HEE	" " "
44	1	Variac, Type V-10HE	" " "
45	1	Variac, Type V-10HEE	" " "
46	1	Variac, Type 50-B	" " "
47	1	Multimeter for test purposes (Volt-ohm meter), Simpson model 260 or later improved model.	Simpson Electric Co.
48	1	Hot Plate, Multiple Unit, improved type, for 115 & 230 volts, top surface 12-1/4" x 12-1/4"	Scientific Supplies Co., No. 33920, Type 12
49	1	Stopclock, electric SM-60	Standard Electric Co.
50	1	Refractometer, Abbe, improved, Bausch & Lomb	Scientific Supplies Co., No. 55610
51	1	Voltmeter, triple range, 150-15-13 volts	Scientific Supplies Co., No. 26928
52	1	Ammeter, triple range, 30-3-1.5 amperes	Scientific Supplies Co., No. 26940
53	1	Calorimeter, Parr, double valve, with alloy oxygen bomb, Adiabatic Jacket & Stirring Motor	Fisher Scientific 4-351
54	2	Slide rules, log log Duplex Decitrig, 10 inch	Kouffel & Esser Co. NS. 4081-3
55	1	Slide rule same as above but 20 inch	K & E No. 4081-5
56	1 Pt.	Buffer Solution, Conc. 7.00 pH	Central Scientific No. 21072

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