ear of report	Beem/Bey	-	Activity	nataa
	Room/Bay		Activity	notes
1957	OA413		Vibration testing equipment	Moved from Bldg 294, Squier
1957	07413			
	OA334	1958	High temperature firing - lead and cadmium	Ceramics Laboratory
	0,1001	1000	oxides	canopy hood
			Spraying glazes and etching with hydrogen	spray booth
			fluoride and ceramic mists	
			Ceramics heating furnace-zirconium oxide	canopy hood
	OA334-330	1969		Electronic Parts and Materials; 1 hood
	0/1004 000	1000		
	OA338	1958	Cleaning rubber mills with toluene	Expoloratory Research
	0,1000	1000	Inner Room:	
			Shaping pyrophilite test samples	Ultra High Pressure and Temperature laboratory
		1969	Mixing, molding, and curing epoxy, polyester,	Plastics Shop, Fabrications Branch
		1000	and polyurethane compounds including	
			toluene diisocyanate and numerous solvents	
			Power sanding of cured epoxy and polyester	
			resins and wood 1-2 hrs per day	
			Wrapping fiberglass material coated with	Canopy hood
			uncured resins on molds in a lathe	
1955	1st floor		Ozalid reproduction	Reproduction Branch
1000			ammonia vapors	Machines exhaust ventilated
		1957	Developing blueprints, photostats	Local exhaust ventilation
		1007		
	1B108A	1958	Carpenter Shop; woodworking	
	TDTUOA	1900		
1955	1B114		Spray painting and cleaning of typewriters	Exhaust ventilated spray booth
			machining	
			arc and acetylene welding	Local exhaust ventilation to be installed for welding ops
		1958	Carpenter Shop; woodworking	
	1B136	1958	Repair of small equipment used in	Reproduction Department
ľ			reproduction area; use of oils and	
			Stoddard solvent	
			Ozalid reproduction using ammonia; 3 large and	
		1	1 small machine	

Year of report	Room/Bay		Activity	notes
			Carbon-arc photography exposure in isolated	
			darkroom generating nitrogren oxides	
	1B138	1958	Preparing chemicals for developing, printing, and	
			enlarging film using standard photographic	
			chemicals	
			Developing and printing film	
			Xerography using diethyl ether and acetone	
			Carbon arc sensitizing generating nitrogen	
			oxides	
	1B140	1958	Developing, printing, and drying film using	
	10140	1000	standard photographic chemicals	
			standard photographic chemicals	
	1B142	1958	Developing, printing, and drying film using	
	10142	1900	standard photographic chemicals	
			standaru protograpnic chemicais	
	40005	4050	Or new printing	
	1B205	1958	Spray painting	with 1B208/series of 3 spray booths
		1969	Spray painting small items 6-8 hrs per day	Paint Shops, Fabrication Branch
	1B207	1958	Sandblasting	Enclosed cabinet
	1B208	1958	Spray painting	
		1969	Spray painting small items 6-8 hrs per day	Paint Shops, Fabrication Branch
	1B211	1958	Making plastic casts from epoxy resins and	Materials Branch, Plastics and Elastomers Section,
			isocyanate foam in fume hood	Reinforced Plastics Laboratory
			Laying up laminates	Hood
			Spraying plastic fibers on form	
			Curing oven	
		1969	Plasma flame spraying of metal and ceramic	Fabrications Branch, Technical Spt. Activity, Welding shop
			materials up to 8 hrs per day	,, ,,,,,,,,,,,,,,,,,,,,,,,,,
	1B302	1958	Sheetmetal shop	Engineering Facilities Division, Shop Branch
	12002	1000	Grinding welds and sanding	
		1	Acetylene, arc, and heliarc welding	
		_	Oxyacetylene brazing and soldering	2 canopy hoods
		-	Forging metal	Enclosed hood
		-		
	10200	1059	Machining using ails and grasses	
	1B308	1958	Machining using oils and greases	
			Arc, heliarc, and acetylene welding on steel	

ear of report	Room/Bay		Activity	notes
			and aluminum	
			Acetylene soldering and brazing	
	1B312	1969		Integrated Electronics; 2 hoods
	1B316		Industrial X-Ray equipment	
		1958	Reproduction of engineering prints	Reproduction department
			ammonia and photographic chemicals	
	2C127A	1958	Preparing magenetic materials and growing	Exploratory Research "E"
			crystals using iron oxide, yttrium dust	fume hood
	2C127B	1958	High vacuum evaporating metals	Exploratory Research "E"
	201210	1000	Cleaning parts and equipment using acetone	
	00400	4070		
	2C129	1972	2 electron microscopes (RAD)	
		1958	preparing screens for electron microscopes	Exploratory Research "E"
			using ethylene chloride, methyl alcohol,	
			dioxane, ethyl bromide	
	2C131	1972	5 X-Ray diffraction units (RAD)	
		1958	Grinding powder samples for X-Ray diffraction	Exploratory Research "E"
			using magnetic oxides dusts, ethyl acetate,	
1955	2C133		standard laboratory chemicals	1 hood
		1957	Misc lab operations	Component department
			Carbon arc spectrograph operation	Exploratory Research "E"
			using silicon and germanium	
		1958	Darkroom development of arc	Exploratory Research "E"
			spectrograph films using standard	
			photographic chemicals	
1955	2C135		Standard laboratory chemicals	1 hood
			hydrofluoric and other acids	
		1957	Misc lab operations	Component department
		1958	Preparing phase microscope slides using	hood
		1000	laboratory reagents	
1955	2C143		Standard lab chemicals	Power Source Branch
1900	20143			3 hoods
		1059	Charging bottorios	
		1958	Charging batteries	Special Purpose battery branch

Year of report	Room/Bay		Activity	notes
				3 hoods
	2C201		R&D - ammonia and chlorine	Special Purpose battery branch, R&D of gas activated batteries
			Electroplating lead oxides on nicke;	
		1969		Power Sources; 1 hood
1955	2C203		Machining	oils
1955	2C205	196	69	Power Sources Branch
				1 hood not in operation; 1 hood in operation
1955	2C207		Battery development of all types	Power Sources Branch
			Standard lab chemical reagents	
		1958	Developing and testing electrical systems	Special Purpose Battery Branch
			Testing solar batteries by infrared lamps	
		1969		Power Sources; 1 hood not in operation
	2C211	1969	Helium-neon laser	Electronic Components Laboratory
	2C311	1958	Finish lapping; gold, silver, and aluminum	Piezo Electric Crystal Branch
	20011	1000	plating; sealing of crystals in helium filled	vacuum coating process
			containers; soldering	
	2C313	1969	Helium-neon laser in support of	Electronic Components Laboratory
	20010	1000	X-Ray diffraction studies	
	2C313B	1969	2 helium-neon lasers; in-house constructed ruby	Electronic Components Laboratory
	200100	1000	laser and mercury ion laser - in storage;	
			CO2 laser just arrived	
	2C315	1958	Frequency testing of crystals	Piezo Electric Crystal Branch
	2D125	1958	Crystal growing with boron	Glass Blowing Shop
			Glass blowing and heating using an	
			acetylene torch	
	2D127	1972	X-Ray diffraction unit	
		1958	Growing single crystals of semiconductors	Enclosed vacuum system
			using silica, boron, and germanium	
	2D128A	1972	1 Electron microscope	
4055	0.000			
1955	2D129A			1 hood

ear of report	Room/Bay		Activity	notes
		1957	Misc lab operations	Component department
1955	2D129B			1 hood
		1957	Misc lab operations	Component department
		1958	Gas etch semiconductors using hydrogen,	fume hood with gas handling system enclosed
			fluorine, and laboratory reagents	
	2D130	1958	Darkroom developing using standard	
			photographic chemicals	
	2D133A	1958	Machining metals using cutting and coolant oils	
			Acetylene welding	
	2D133B	1957	Misc lab operations	Component department
		1958	Cutting, grinding, and polishing wafers	Hoods
			using ferrites and other dusts	
	2D134	1972	2 X-Ray diffraction units	
1955	2D135A	1955	Standard laboratory chemicals	
		1957	Misc lab operations	Component department
		1958	Surface area measurements of particles using	Closed system handling of gases
			nitrogen, sulfur dioxide, hydrogen bromide,	
			krypton, helium, and mercury	
1955	2D135B		Cutting, grinding, and polishing	Crystal Chemistry and Physics Branch
			metal and artificial abrasive dusts	exhaust ventilation to be connected to equipment
		1957	Misc lab operations	Component department
		1958	Surface area measurements of particles using	Closed system handling of gases
			nitrogen, sulfur dioxide, hydrogen bromide,	
			krypton, helium, and mercury	
1955	2D137		Standard laboratory chemicals	1 hood
			mercury	
		1957	Misc lab operations	Component department
		1958	Growing crystals using potassium-cobalt	Closed system handling of gases
			cyanide	
			Chemical reactions using laboratory reagents	fume hood
			and potassium-cobalt cyanide	
	2D139	1958	Preparing semiconductors using cadmium	Enclosed system for handling materials
			sulfide and selenides	
			Use of laboratory reagents to prepare chemicals	Fume hood

Year of report	Room/Bay		Activity	notes
1955	2D140		Battery development of all types	Power Sources Branch
			Standard lab chemical reagents	
		1969		Power Sources; 1 hood
	2D200	1969		Power Sources; 1 hood
	2D207	1969		Power Sources; 1 hood
1957	2D210		Misc lab operations	Power Sources Division
	2D215	1958	Making quartz tubes	Component Research Dept
			Glass Blowing shop	
	2D301	1969	Neodymiun-YAG -operational and not in use	Electronic Components Laboratory
	20001	1000	2 in-house erbium lasers; 1 inoperable erbium	
			laser	
	2D303	1969	5 laboratory constructed CO2 lasers; inoperable	Electronic Components Laboratory
	20303	1909	krypton laser; active helium-neon laser	
			Riypton laser, active helium-heon laser	
	2D304	1969	hydrogen, nitrogen, methane laser	Electronic Components Laboratory
	20304	1909	nydrogen, mitrogen, methane laser	
	2D306	1969	helium-neon laser	Piezoelectric crystal and circuitry Branch
	20300	1909		Electronic Components Laboratory
	2D307	1969	2 erbium lasers; neodymium laser; ruby	Electronic Components Laboratory
	20307	1909	pulsed laser; helium-neon laser	
			pulsed laser, nelium-neon laser	
	2D309	1972	3 X-Ray diffraction units	
	20309			D'anna - Ela atria Orazatel Deserat
		1958	Single sawing of quartz crystals	Piezo - Electric Crystal Branch
			Making quartz disks	
			Lapping disks	
			Solvent containing equipment- perchloroethylene	
			and Stoddard's solvent	
	2D310	1972	1 X-Ray diffraction unit	
		1969	erbium laser	Electronic Components Laboratory
	2D312	1958	Finish lapping; gold, silver, and aluminum	Piezo Electric Crystal Branch
			plating; sealing of crystals in helium filled	vacuum coating process
			containers; soldering	
	2D313A	1969	CO2 laser; helium-neon laser	Electronic Components Laboratory

ear of report	Room/Bay		Activity	notes
	2D314	1958	Frequency testing of crystals	Piezo Electric Crystal Branch
	3C141	1957	Misc lab operations	Power Sources Division
		1969		Power Sources; 1 hood
	00140	4050	Only designs and teating	Or many and all her them. Descent
	3C143	1958	Cell design and testing	Commercial battery Branch
			Compounding inorganic electrolytes and	Hoods
			sealing cells; investigating components of	
			cells	
			Spot welding	
			Light machining of metal	
1955	3C201		Misc lab operations	Power Source Branch
1900	30201	1958	Cell design and testing	Commercial battery Branch
		1920	Compounding inorganic electrolytes and	
				Hoods
			sealing cells; investigating components of	
			cells	
			Spot welding	
			Light machining of metal	
1955	3C203		Misc lab operations	Power Source Branch
	00200			1 hood
		1958	Cell design and testing	Commercial battery Branch
			Compounding inorganic electrolytes and	Hoods
			sealing cells; investigating components of	
			cells	
			Spot welding	
			Light machining of metal	
	3C205	1969		Power Sources ; 2 hoods
	3D140	1958	Chemical analyses using standard chemicals	Power Services Division, Commercial Battery Branch
			Mixing, handling, and storing chemicals	4 booths
			manganese, ammonium, and zinc chloride	
			Ball milling chemicals	
		1969	Refractive index studies of electrolytes; argon	Power Sources System Branch
			laser	
1955	3D141		Miscellaneous lab operations Standard laboratory chemicals	Power Sources Branch Exhaust ventilated fume hoods; air conditioned room
1555				

ear of report	Room/Bay		Activity	notes
	3D200	1969		Power Sources; 2 hoods
1955	3D202		Sampling area	Power Sources Branch
		1957	Misc lab operations	
		1969		Power Sources; 1 hood
	3D203	1969		Power Sources; 1 hood
	3D303	1969	Carbon dioxide laser	Electronic components Laboratory
	02000	1000		
	3D414	1969	gallium-arsenide laser	Avionics Laboratory
	30414	1303	in laser obstacle avoidance techniques	
			helium-neon laser for optical alignment and	
		-	demonstration	
		-	demonstration	
1955	4C109A		Standard lab chemicals	Dhatagraphia Branch
1955	4C109A		Standard lab chemicals	Photographic Branch
				2 hoods
4055	101000			Dhatawark's David
1955	4C109B			Photographic Branch
				1 hood
		1958	Vacuum coating plates using selenium metal	vacuum coating machine /fume hood
			Chemical analysis	Fume hood
	4C110			
	4C111	1958	Testing ion exchange resins	
	4C115	1958	Darkrooms for experimental development	Applied Physics Division, Photographic Branch
			and printing using standard photographic	
			chemicals	
	4C117	1958	Darkrooms for experimental development	Applied Physics Division, Photographic Branch
			and printing using standard photographic	
			chemicals	
	4C119	1958	Darkrooms for experimental development	Applied Physics Division, Photographic Branch
			and printing using standard photographic	
			chemicals	
	4C120	1958	Darkrooms for experimental development	Applied Physics Division, Photographic Branch

Year of report	Room/Bay		Activity	notes
			chemicals	
1955	4C129A		Ferric chloride etching solution	Components and Materials Branch
			Organic solvents; standard lab chemicals	2 hoods
		1957	Carbon-arc sensitizing	
	4C129/4D130	1991	Class 10 Clean Room	Electronic Technology Devices Laboratory
			see main report section 2.2.2.2.9	
1955	4C131		Standard lab chemicals; fungi;	1 hood
			fungicide	
		1958	Transferring cultures including	Mycology laboratory, materials branch
			nonpathogenic fungi	
		1969		Integrated electronics; 1 hood
1955	4C143		Mixing magnetic powders	Components and Materials Branch
				Metal dusts; small quantities; mechanical general ventilation
1955	4C201		Standard lab chemicals	Components and Materials Branch
				7 hoods
		1958	Ultrasonic cleaning of parts	Chemical Research Unit, Materials Branch, Elastomer section
			Chemical distillation, evaporation, and	5 fume hoods
			reflux using acids, alkali solvents, ammonia	
			Storage of corrosive chemicals	fume hood
		1969		Electronic Parts and Materials; 3 hoods
1957	4C203		Misc lab chemicals	hood
		1969		Electronic Parts and Materials; 3 hoods
	10017	4000		
	4C317	1969	Gallium-arsenide pulsed laser and several	Electronic components laboratory
			smaller gallium-arsenide lasers	
	4C319	1969	Helium-neon laser	Display Techniques Team; Information Acquisition Technical Area
	40010	1303		
	4C327	1969	Krypton laser; argon laser; helium-neon laser	Display Techniques Team; Information Acquisition Technical Area
	10021	1000	argon laser being installed	
			Xeonon arc lamp used to study response of film	
			to high intensity light; produced ozone	
1955	4D13		Paint Spray Booth	Spray paint booth exhaust ventilated through water curtain
	4D107	1958	Light machining of metal	
1955	4D108		miscellaneous operations	Photographic Branch

Year of report	Room/Bay		Activity	notes
				Standard laboratory chemicals
				Exhaust ventilated laboratory fume hoods
1955	4D110		Standard laboratory chemicals	Photographic Branch
			Hydrofluoric acid and other acids	1 hood
		1958	Chemical analysis	
1955	4D114		Standard lab chemicals	Photographic Branch
			mercury compounds	1 hood
	4D114-4	1958	Chemical analysis	Fume hood
	4D114-5	1958	Chemical analysis	Fume hood
	4D116/4D120	1991	Class 1000 Cleanroom	Electronic Technology Devices Laboratory
			see section 2.2.2.2.9 of main report	
	4D130	1958	Treating metal for adhesion and	Electrocoating unit
			corrosion resistance using chromate and	Fume hood
			phosphate solutions and their mists	
		1958	Electroplating test pieces	Fume hood
1955	4D132	1955	Coatings and adhesives laboratory	Components and Materials Branch
			Experimental plating metal parts	Variety of plating solutions and mists
			Drying parts	Enclosed ventilated oven; thinner vapors
				Exhaust ventilated fume hoods
		1957	Spray application of laquers and resins	Spray paint booth
			Degreasing parts in portable degreaser	Natural ventilation
			using perchloroethylene	
		1958	Spray painting of test panels	Spray booth
			Paint mixing	
			Paint roller mill	
			Degreasing parts using perchloroethylene	
			Dip Cleaning of glassware using xylene,	Electrocoating Unit, Materials Branch
			ethyl acetate, toluene, naptha, and	
			mineral spirits	
	4D134	1958	Paint drying and baking	Electrocoating Unit, Materials Branch

Year of report	Room/Bay		Activity	notes
1955			-	
1955	4D201			Components and Materials Branch
	4D202		Misc Lab chemicals	Components and Materials Branch
		1969		Electronic Parts and Materials; 4 hood
		1991	Printed Circuit Board Facility	Electronic Technology and Devices Laboratory
			21 open surface tanks; 3 hoods	see Tabel E-2, AEHA IH Study No. 55-61-0268-91
	4D213	1969		Electronic Parts and Materials; 1 hood
	4D214A	1972	2 X-Ray diffraction units	
		1969		Electronic Parts and Materials; 1 hood
	4D312A	1969	2 cyanide lasers	Electronic components laboratory
	4D327	1969	helium-neon laser	Information Acquisition Technical Area, Display Techniques Team
	4D404A	1969	6 helium-neon lasers	Communications and Automatic Data Processing Laboratory
			Experimental communications link to Coles Lab	
			using helium-neon laser	
	Sub-Station	1958	Testing 150KW diesel engine auxiliary power	
			generating unit	