

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-------|-------------------------------|--------|--------------------------------|--|
| | AAC | Actinide Analytical Chemistry | | | Not in Builder TA 03-0029 Only |
| P | | | CVD | Confinement Vessel Disposition | |
| P | | | HCE | Hot Cell Enclosure | |
| P | | | OVEN | Oven | |
| P | | | RMS | Radiation Monitoring System | Includes neutron and gamma detection system. |
| P | | | SD | BG Sphere | |
| | ACHEM | Analytical Chemistry | | | Not in Builder |
| P | | | CSPEC | Plasma/Mass Spectrometry | |
| P | | | R5 | Radiochemistry | |
| P | | | SMPPRP | Sample Preparation | |
| P | | | SOLA | Solids Analysis | |
| P | | | SOLCHM | Solution Chemistry | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|--------------------|--------|--|-------------------------------|
| | AO | Assembly Operation | | | Not in Builder |
| P | | | BRUSH | Brushing | |
| P | | | CLNOP | Cleaning Operations | |
| P | | | CRIMP | Tube Crimping | |
| P | | | DOWNDR | Downdraft Room Operations | |
| P | | | ECM | Electro Chemical Marking | |
| P | | | EVB | Evacuation and Bake Out | |
| P | | | FDENSE | Final Density | |
| P | | | FMASS | Final Mass, Volume Displacement System | |
| P | | | GPE | Grinding/Polishing/Etching | |
| P | | | INERT | Inert Storage | |
| P | | | LAZMK | Laser Marking | |
| P | | | LAZSMP | Laser Sampling | |
| P | | | LEAKS | Leak Testing System | |
| P | | | PTEST | Pressure Proof | |
| P | | | SBPREP | Sample Bottle Preparation System | |
| P | | | SUBLT | Sub Assembly Leak Testing | |
| P | | | ULTRAC | Ultrasonic Cleaning | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|------|------------------|--------|---|-------------------------------|
| | AQCL | Aqueous Chloride | | | Not in Builder |
| P | | | AMDO | Americium Oxide Dry Operations | |
| P | | | AQCLTP | Aqueous Chloride Transfer Piping | |
| P | | | CALCL | Calcination AQCL | |
| P | | | CLEAR | Chloride liquid effluent actinide recovery line | |
| P | | | CRUSH | Crushing | |
| P | | | DISSCL | Dissolution AQCL | |
| P | | | HYDCL | Hydroxide Precipitation -EXCEL | |
| P | | | IXCL | Ion Exchange AQCL | |
| P | | | OHCL | Hydroxide Precipitation -CLEAR | |
| P | | | OXCL | Oxalate Precipitation AQCL | |
| P | | | SX | Solvent Extraction | |
| | AQN | Aqueous Nitrate | | | Not in Builder |
| P | | | 400FRN | 400 Wing Forensics | |
| P | | | ATDIS | Dissolution ATLAS | |
| P | | | ATLIX | Ion Exchange ATLAS | |
| P | | | CALAT | Calcination ATLAS | |
| P | | | CASDIS | Cascade Dissolvers | |
| P | | | CF | Cementation | |
| P | | | EDDIS | Dissolution AQN | |
| P | | | EV | Evaporation | |
| P | | | HD | Nitrate Dissolution | |
| P | | | HNO3P | Nitric Acid Process Solutions | |
| P | | | NARS | Nitric Acid Recovery | |
| P | | | PMO | Pu Metal Oxidation AQN | |
| P | | | RESIN | IX Resins for Weapons Grade | |
| P | | | RFXCAL | Calcination AQN | |
| P | | | RFXIX | Ion Exchange RFX | |
| P | | | RFXOXP | Oxalate Precipitation AQN | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-------|--|--------|--|-------------------------------|
| | ARIES | Advanced Recovery and Integrated Extraction System | | | Not in Builder |
| P | | | ACONV | Aries Conveyor | |
| P | | | APC | Aries Pit Cutter | |
| P | | | CONCAN | Packaging: Convenience Can Welder | |
| P | | | DMO2 | Direct Metal Oxidation 2 | |
| P | | | DMO3 | Direct Metal Oxidation 3 | |
| P | | | ELDE | Electrolytic Decontamination | |
| P | | | HEUOPS | Electrolytic Decontamination, Uranium size reduction, Oxidation, and packaging | |
| P | | | ILMS | In-Line Material Storage | |
| P | | | INCAN | Packaging: Inner Can Welder | |
| P | | | NDAPDC | Non-Destructive Analysis | |
| P | | | OUTCAN | Packaging: Outer Can Welder | |
| P | | | PITD | PIT Disassembly | |
| P | | | PSF | Parts Sanitization Furnace | |
| P | | | RBLATH | Robotic Lathe | |
| P | | | RIPS | Robotic Integrated Packaging System | |
| | ASR | Aqueous Scrap Recovery | | | Not in Builder |
| P | | | BLML | Ball Milling ASR | |
| P | | | CALC | Calcination ASR | |
| P | | | DISS | Dissolution ASR | |
| P | | | HSVV | Heat Source Vessels and Vents | |
| P | | | HYDPRE | Hydroxide Precipitation ASR | |
| P | | | IX | Ion Exchange ASR | |
| P | | | OXPRE | Oxalate Precipitation ASR | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|------|----------|--------|--------------------|---|
| | BLDG | Building | | | |
| R | | | BSMNT | Basement | A20 Basement Construction A2020 Basement Walls A202001 Basement Wall Construction A202002 Moisture Protection A202003 Basement Wall Insulation A202090 Other Basement Walls See FOUND for basement floor. |
| R | | | BSTR | Building Structure | RLUOB Only Used to encompass entire building structural components. B20 Exterior Enclosure |
| R | | | CEILNG | Ceilings | C30 Interior Finishes C3030 Ceiling Finishes C303001 Acoustical Ceiling Tiles & Panels C303002 Gypsum Wallboard Ceiling Finishes C303003 Plaster Ceiling Finishes C303004 Wood Ceilings C303005 Suspension Systems C303006 Metal Strip Ceilings C303090 Other Ceiling & Ceiling Finishes C3040 Int Coatings / Special Finishes C304004 Metal Finishes |
| R | | | CONF | Confinement | Confinement used only for radiological barrier and marine doors. C10 Interior Construction C1020 Interior Doors C102090 Other Interior Specialty Doors (used for radiological and marine doors) C1030 Specialties C103090 Other Interior Specialties (use for radiological barriers other than doors) |
| R | | | COSTOR | Controlled Storage | C103001 Compartments, Cubicles & Toilet Partitions Storage area for like ML1 parts. |

| | | | | | |
|---|--|--|--------|--------------------|--|
| R | | | EXTENC | Exterior Enclosure | <p>B20 Exterior Enclosure (Use this when applicable to an entire building)</p> <p>B2010 Exterior Walls</p> <p>B201001 Exterior Closure (including siding)</p> <p>B201002 Exterior Wall Backup Construction</p> <p>B201003 Insulation & Vapor Retarder</p> <p>B201004 Parapets</p> <p>B201005 Exterior Louvers & Screens</p> <p>B201006 Balcony Walls & Handrails</p> <p>B201007 Exterior Soffits</p> <p>B201008 Flashing</p> <p>B201009 Exterior Painting and Special Coatings</p> <p>B201010 Exterior Joint Sealant</p> <p>B201011 Sun Control Devices</p> <p>B201012 Screen Walls</p> <p>B201090 Other Exterior Walls</p> <p>B2020 Exterior Windows</p> <p>B202001 Windows</p> <p>B202002 Storefronts</p> <p>B202003 Curtain Walls</p> <p>B2030 Exterior Doors</p> <p>B203001 Solid Doors</p> <p>B203002 Glazed Doors</p> <p>B203004 Overhead and Roll-Up Doors</p> <p>B203005 Hangar Doors</p> <p>B203006 Blast Resistant Doors</p> <p>B203007 Gates</p> <p>B203090 Other Exterior Specialty Doors – Use this for security doors</p> <p>B203091 Other Exterior Personnel Doors</p> <p>Door hardware, e.g. latches and releases, "Assessed as part of door"</p> <p>F10 Special Construction</p> <p>F1010 Special Structures</p> <p>F101001 Metal Building Systems</p> <p>F101002 Exterior Utility Buildings - Put security/guard towers under SEC/PIDAS</p> <p>F101003 Air-Supported Structures</p> <p>F101090 Other Special Construction</p> <p>(Use CONF System when radiological barrier)</p> |
|---|--|--|--------|--------------------|--|

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|--------|--------|---------------------------|---|
| P | | | FIRING | Firing Lanes | Not in Builder Fixed targets, moveable target mechanisms, berm bullet traps |
| R | | | FIXLDR | Affixed Ladders | B20 Exterior Enclosure B2010 Exterior Walls B201001 Exterior Closure (includes exterior ladders) C10 Interior Construction C1030 Specialties C103090 Other Interior Specialties (includes interior ladders) This Sys is for ladders permanently affixed to the building structure. |
| R | | | FLOORC | Floors, Construction | B10 Superstructure B1010 Floor Construction B101001 Structural Frame B101003 Floor Decks and Slabs B101004 Inclined and Stepped Floors B101005 Balcony Construction B101006 Ramps B101007 Floor Raceway Systems B101090 Other Floor Construction |
| R | | | FLOPIN | Floors, Interior Finishes | C30 Interior Finishes C3020 Floor Finishes C302001 Tile Floor Finishes C302002 Terrazzo Floor Finishes C302003 Wood Flooring C302004 Resilient Floor Finishes C302005 Carpeting C302006 Masonry & Stone Flooring C302008 Stair Finishes C302009 Floor Toppings and Traffic Membranes C302010 Hardeners and Sealers C302011 Raised Access Flooring C302090 Other Flooring & Floor Finishes |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|--------|---------|-------------|--|
| R | | | FOUND | Foundations | A10 Foundations A1010 Standard Foundations A101001 Wall Foundations A101002 Column Foundations & Pile Caps A101090 Other Standard Foundations A1020 Special Foundations A102001 Pile Foundations A102090 Other Special Foundations A1030 Slab On Grade A103001 Standard Slab on Grade A103003 Trenches A103004 Pits and Bases A103090 Other Slab on Grade A20 Basement Construction A2010 Basement Excavation A201001 Excavation For Basements Use this for basement floors |
| R | | | FURNISH | Furnishings | E20 Furnishings E2010 Fixed Furnishings E201001 Fixed Artwork E201002 Window Treatments E201003 Seating (Fixed) E201004 Fixed Interior Landscaping E201090 Other Fixed Interior Furnishings E2020 Moveable Furnishings E202001 Moveable Art Work E202002 Modular Prefabricated Furniture E202003 Freestanding Furniture E202004 Rugs & Accessories E202005 Moveable Multiple Seating E202006 Moveable Interior Landscaping E202090 Other Moveable Furnishings |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|--------|--------|-----------------------|--|
| R | | | INTCON | Interior Construction | B10 Superstructure B1030 Wall Construction B103002 Structural Interior Walls C10 Interior Construction Use when Entire Building Interior C1010 Partitions C101001 Fixed Partitions C101002 Demountable Partitions C101003 Retractable Partitions C101004 Interior Guardrails & Screens C101005 Interior Windows C101006 Glazed Partitions & Storefronts C1020 Interior Doors C102001 Standard Interior Doors C102002 Glazed Interior Doors C102004 Sliding & Folding Doors C102005 Interior Overhead Doors C102006 Interior Gates – Use this for security doors and turnstiles C102090 Other Interior Specialty Doors (used for radiological and marine doors under CONF System) C102091 Other Interior Personnel Doors – Use for cipher lockset, with key pad, and Door Frame, Hardware, Motor, Signage, Surface, Window Glass. Door hardware, e.g. latches and releases, “Assessed as part of door” C30 Interior Finishes C3010 Wall Finishes C301001 Concrete Wall Finishes C301003 Gypsum Wallboard Finishes C301004 Tile & Terrazzo Wall Finishes C301005 Wall Coverings C301006 Acoustical Panels Adhered To Walls C301090 Other Wall Finishes (Use CONF System when radiological barrier) (Fire doors under FP/FBP) |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|--------|--------|--------------------------|---|
| R | | | INTFIN | Interior Finishes | C30 Interior Finishes C3040 Int Coatings / Special Finishes C304001 General Requirements C304002 Concrete Finishes C304003 Concrete Masonry Finishes C304004 Metal Finishes C304005 Interior Wood Finishes C304006 Gypsum Wallboard Finishes C304007 Special Coatings On Walls Wall finishes under Sys INTCON. |
| R | | | KITCHN | Kitchen Equipment | E10 Equipment E1090 Other Equipment E109002 Food Service Equipment Examples: Walk-in freezer, commercial grills, large ice makers, dishwashers, etc. |
| P | | | LAB | Laboratory Equipment | E10 Equipment E1020 Institutional Equipment E102003 Laboratory Equipment (Calorimeter, fume hood, with countertop & base, complex, incl. fixtures, sterilizer, Mass Spectrometer, and ovens. Fume hood exhaust scrubbers will be assessed as part of the fume hood. Fume hood exhaust fans are under VNT/EXH. E1090 Other Equipment E109090 Other Specialized Fixed and Moveable Equipment Examples: Incubators, Refrigerators for Specimens, radiation generating devices other than medical or security x-ray equipment. |
| R | | | LDRY | Laundry | E10 Equipment E1010 Commercial Equipment E101004 Laundry Equipment |
| R | | | MISC | Miscellaneous | E1020 Institutional Equipment E102001 Miscellaneous Common Fixed & Moveable Equipment |
| R | | | NSB | Nuclear Support Building | TA55 only F10 Special Construction F1010 Special Structures F101090 Other Special Construction |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|--------|--------|--|--|
| R | | | ROOF | Roofing | B30 Roofing B3010 Roof Coverings B301001 Steep Slope Roof Systems B301002 Low Slope Roof Systems B301003 Roof Insulation & Fill B301004 Flashings & Trim B301005 Gutters & Downspouts B301006 Roof Openings and Supports B301090 Other Roofing D20 Plumbing D2040 Rain Water Drainage D204002 Roof Drains D204003 Rainwater Drainage Equipment D204090 Other Rain Water Drainage System |
| R | | | ROOFC | Roof Construction | B10 Superstructure B1020 Roof Construction B102001 Structural Frame B102003 Roof Decks and Slabs B102004 Canopies B102090 Other Roof Construction |
| R | | | STAIRS | Stairs | C20 Stairs C2010 Stair Construction C201001 Interior and Exterior Stairs C201002 Fire Escape Stairs C201090 Stair Handrails, Guardrails and Accessories C30 Interior Finishes C3020 Floor Finishes C302008 Stair Finishes |
| R | | | WCFD | Laboratory Walls, Floors, Ceilings and Doors | PF4 only Not in Builder |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|-----------------------|-------|---|--|
| | CGS | Compressed Gas Supply | | | D20 Plumbing D2090 Other Plumbing Systems Regardless of system, no safety or relief valves will be assessed by Builder. |
| R | | | AR | Argon Gas | D209090 Other Special Plumbing Systems |
| R | | | AR100 | Argon Gas (100 PSI) | D209090 Other Special Plumbing Systems |
| R | | | CA | Compressed Air | D209005 Compressed Air System – Non Breathing Air (Use this for large compressed air systems including dryers. Do not include compressors for boilers burner systems. For systems supplying solely HVAC system as found in office or training buildings use the instrument air compressors found under HVAC System.) |
| R | | | CG | Calibration Gas | Includes many different types of certified gases used to “calibrate” respective detectors/analyzers/etc. D209090 Other Special Plumbing Systems |
| R | | | CH4 | Methane Gas | D209090 Other Special Plumbing Systems |
| P | | | CL2 | Chlorine Gas | D209090 Other Special Plumbing Systems |
| P | | | CLDEL | Chlorine Gas Delivery | D209090 Other Special Plumbing Systems |
| P | | | CLDET | Chlorine Gas Detection | D209090 Other Special Plumbing Systems |
| R | | | CO2 | Carbon Dioxide Gas | D209090 Other Special Plumbing Systems |
| R | | | H2 | Hydrogen Gas | D209090 Other Special Plumbing Systems |
| P | | | HGAS | TRU Waste Headspace Gas Analysis System | D209090 Other Special Plumbing Systems |
| R | | | H2S | Hydrogen Sulfide | D209090 Other Special Plumbing Systems |
| R | | | HE | Helium Gas | D209090 Other Special Plumbing Systems |
| R | | | IAS | Instrument Air System | D209090 Other Special Plumbing Systems |
| R | | | LAR | Liquid Argon (cryogenic) | D209090 Other Special Plumbing Systems |
| R | | | LN2 | Liquid Nitrogen (cryogenic) | D209090 Other Special Plumbing Systems |
| R | | | MULTI | Gas Bottled System | D209090 Other Special Plumbing Systems |
| R | | | N2 | Nitrogen Gas | D209090 Other Special Plumbing Systems |
| R | | | N2100 | Nitrogen Gas (100 PSI +/-) | D209090 Other Special Plumbing Systems |
| R | | | N2H2 | Nitrogen/ 6% Hydrogen | D209090 Other Special Plumbing Systems |
| R | | | O2 | Oxygen Gas | D209090 Other Special Plumbing Systems |
| R | | | P10 | P10 Gas | D209090 Other Special Plumbing Systems |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|------|----------------|--------|---------------------------------------|---|
| R | | | PCA | Process Air Supply | D209090 Other Special Plumbing Systems |
| R | | | REGEN | Argon/6% Hydrogen Regen Gas | D209090 Other Special Plumbing Systems |
| R | | | RL | Refrigerant Liquid | D209090 Other Special Plumbing Systems |
| P | | | XE | Xenon Gas | D209090 Other Special Plumbing Systems |
| | COMM | Communications | | | |
| R | | | CCTV | Closed Circuit Television | F10 Special Construction F1050 Special Ctrls / Instrumentation F105001 Recording Instrumentation Security cameras are under SEC, Security. |
| R | | | LPS | Local Paging System | D50 Electrical D5030 Communications & Security D503002 Public Address Systems |
| R | | | PA | Public Address | D503002 Public Address Systems – Use this for intercom also. |
| R | | | RC | Radio Communications | G40 Site Electrical Utilities G4030 Site Communication and Security G403001 Telecommunications Systems |
| R | | | REDNET | Secure Network | D503090 Other Communications & Alarm Systems |
| R | | | SPAS | Emergency Paging System | D503002 Public Address Systems |
| R | | | TEL | Telecommunications | G403001 Telecommunications Systems |
| | CONT | Containers | | | Not in Builder |
| P | | | CNTRC | Credited Containers | (Fire Rated Containers) |
| P | | | EHS | Encapsulated Heat Sources | |
| P | | | EVIN | Evacuation and Inerting | RANT System for Leak Testing, Evacuating, and Inerting waste containers before shipping. |
| P | | | MIS | MIS Containers | |
| P | | | POC | Pipe Overpack Containers | |
| P | | | SCNTR | Containers for Movement of SNM OS GBs | Includes Pipe Overpack Containers, 55 Gallon Drums (With or Without Overpack), 85 Gallon Drums, Standard Waste Boxes, and Ten Drum Overpack containers. |
| P | | | SMPCNT | Non VSS Containers | (Safety Mgmnt Program Containers) |
| P | | | TYPEA | Type A Containers | |
| P | | | TYPEB | Type B Containers | Includes TRUPACT-II, HallfPACT, 10-160B, and RH TRU 72B – VSS (P) containers. |
| P | | | VWBC | Vault Water Bath Containers | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-------|-----------------------|--------|--|---|
| | COOLW | Cooling Water Systems | | | |
| R | | | CCCW | Central Circulating Chilled Water | TA55 Only D30 HVAC D3030 Cooling Generating Systems D303001 Chilled Water Systems – Use for chillers and condensers D304006 Chilled Water Distribution Systems – Use for pump, and tanks (expansion, chem feed, etc.) |
| R | | | LVCCW | Limited Volume Circulating Chilled Water | PF4 only D303001 Chilled Water Systems D304006 Chilled Water Distribution Systems – Use for pump, and tanks (expansion, chem feed, etc.) |
| R | | | NPCCW | Negative Pressure Circulating Chilled Water | PF4 only D303001 Chilled Water Systems D304006 Chilled Water Distribution Systems – Use for pump, and tanks (expansion, chem feed, etc.) |
| R | | | PPCCW | Positive Pressure Circulating Chilled Water | PF4 only D303001 Chilled Water Systems D304006 Chilled Water Distribution Systems – Use for pump, and tanks (expansion, chem feed, etc.) |
| R | | | PPCCWR | Positive Pressure Circulating Chilled Water Return | PF4 only D303001 Chilled Water Systems D304006 Chilled Water Distribution Systems – Use for pump, and tanks (expansion, chem feed, etc.) |
| R | | | PPCCWS | Positive Pressure Circulating Chilled Water Supply | PF4 only D303001 Chilled Water Systems D304006 Chilled Water Distribution Systems – Use for pump, and tanks (expansion, chem feed, etc.) |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|------|-----------------------------|--------|---------------------------------|--|
| R | | | TW | Tower Water | D30 HVAC D3020 Heat Generating Systems D302005 Equipment Thermal Insulation D302090 Other Heat Generating Systems - Use this for heat trace and tank heaters D3030 Cooling Generating Systems D303001 Chilled Water Systems D50 Electrical D5090 Other Electrical Services D509090 Other Special Systems and Devices (Use for VFD's) |
| P | | | VCCW | Vault Circulating Chilled Water | |
| | CRIT | Credited Criticality Safety | | | Not in Builder |
| P | | | CARTS | SNM Carts | |
| P | | | CRITSP | Engineered Criticality Spacing | |
| | CRUC | Crucibles | | | Not in Builder |
| P | | | CRUCC | Credited Crucibles | (This is for containment of molten Pu metal) |
| P | | | CRUCNC | Non-Credited Crucible | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|-----------------|--------|-----------------------------------|--|
| | CS | Chemical Supply | | | D20 Plumbing D2090 Other Plumbing Systems D209090 Other Special Plumbing Systems CMMS will only accept all caps |
| R | | | ALNO3 | Aluminum Nitrate | |
| R | | | BIOCID | Biocide | |
| R | | | CSC | Chemical Supply Caustic | 500230 Only Caustic chemical supply, CST-1, CST-2, CST-3, etc. |
| R | | | CSP | Chemical Supply Process | 500001 and 500230 Only Wet chemical feed, HCl, NaOH, lime, etc. |
| R | | | CSTBS | Nitric Acid Storage Tank and Berm | |
| R | | | FECL3 | Ferric Chloride | FeCl3 |
| R | | | FESUL | Ferric Sulfate | Fe2O12S3 |
| R | | | H2O2 | Hydrogen Peroxide | |
| R | | | H2SO4 | Sulfuric Acid | |
| R | | | HCL | Hydrochloric Acid | |
| R | | | HFA | Hydrofluoric Acid | |
| R | | | HNO3 | Nitric Acid | |
| R | | | KOH | Potassium Hydroxide | |
| R | | | MGCl2 | Magnesium Chloride | MgCl2 |
| R | | | MGSO4 | Magnesium Sulfate | MgSO4 |
| R | | | NACIT | Sodium Citrate | NaCIT |
| R | | | NAHSO3 | Sodium Bisulfite | NaHSO3 |
| R | | | NAOCl | Sodium Hypochlorite | NaOCl |
| R | | | NAOH | Sodium Hydroxide | NaOH |
| R | | | SO2 | Sulfur Dioxide | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|--------|------------------------------|--------|--|---|
| | CTRL | Control Systems | | | |
| R | | | BAS | Building Automation System | F10 Special Construction F1050 Special Ctrls / Instrumentation F105002 Building Automation Systems (Use this when applicable to an entire building) |
| R | | | BPCS | Building Process Control System | Building Process Control System F105002 Building Automation Systems |
| R | | | FCS | Facility Control System | F105002 Building Automation Systems |
| R | | | FMS | Facility Management System | F105002 Building Automation Systems D50 Electrical D5090 Other Electrical Services D509006 Energy Management Control System |
| R | | | ICS | Instrument and Control System | F105090 Other Special Controls and Instrumentation |
| R | | | LCS | Local Control System | F105002 Building Automation Systems |
| R | | | SCADA | Supervisory Control & Data Acquisition | F105090 Other Special Controls and Instrumentation |
| | DRYOPS | Material Preparation | | | Not in Builder |
| P | | | BURN | CALCI Repack & Discard | Calcination Repack & Discard |
| P | | | CALCDO | Calcination DRYOPS | |
| | DTO | Dynamic Testing Operations | | | PF4 Only Not in Builder |
| P | | | 40MM | 40mm Launcher | |
| P | | | 40MMTK | 40mm Launcher Catch Tank | |
| P | | | IFIT | IFIT | |
| P | | | IFITAT | IFIT Ceiling Armr/Catch Tube Sys | |
| P | | | IFITRD | IFIT Relief Device | |
| P | | | KBOP | Kolsky Bar Operations | |
| | ECS | Environmental Chamber System | | | Not in Builder |
| P | | | ECOPS | Environmental Chamber Over-temperature Protection System | WETF |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|------|------------|--------|---------------------------------|---|
| | ENCL | Enclosures | | | Not in Builder |
| P | | | COVER | Covers for Material at Risk | |
| P | | | ENCLBE | Beryllium Lathe Enclosure | |
| P | | | GB | Gloveboxes | |
| P | | | OM | Oxygen Monitoring | Monitoring for specific oxygen levels within a glovebox or such. Not for personnel health and safety. |
| P | | | SPRTC | Credited Support Stands | |
| P | | | SPRTNC | Support Stands, Non-Credited | |
| P | | | TRLLY | Trolley Conveyer System | |
| P | | | WCG | Waste Characterization Glovebox | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|-------------------|--------|---------------------------------|--|
| | ES | Electrical Supply | | | D50 Electrical |
| R | | | 130VDC | 130 Volts Direct Current System | D5090 Other Electrical Services D509002 Emergency Lighting & Power – Backup and Standby Generators PF4 Only |
| R | | | APS | Auxiliary Power System | D509002 Emergency Lighting & Power – Backup and Standby Generators (Include battery banks not specific to UPS or Emergency Lighting) D30 HVAC D3010 Energy Supply D301001 Oil Supply System – Use for diesel fuel tanks |
| R | | | CP | Cathodic Protection | G40 Site Electrical Utilities G4090 Other Site Electrical Utilities G409001 Sacrificial Anode Cathodic Protection System G409002 Induced Current Cathodic Protection System |
| R | | | EBP | Electric Balance of Plant | D501004 Panelboards [Includes ATS, MTS, Safety Switch (CDD), Switchgear, and Lighting Panels] D501005 Enclosed Circuit Breakers D501006 Motor Control Centers |
| R | | | EDS | Electrical Distribution System | D5010 Electrical Service & Distribution (Use this when applicable to an entire building) D501001 Main Transformers – oil-filled, 15 kV with taps, 480 V secondary 3 phase, pad mounted D501003 Interior Distribution Transformers D501004 Panelboards [Includes ATS, MTS, Safety Switch (CDD), Switchgear, PDU's, and Power Panels] D501005 Enclosed Circuit Breakers D501006 Motor Control Centers D501090 Other Service and Distribution – Includes bus ducts D5020 Lighting & Branch Wiring D502001 Branch Wiring |
| R | | | EP | Electrical Power | D501004 Panelboards [Includes ATS, MTS, Safety Switch (CDD), Switchgear, and Lighting Panels] D501005 Enclosed Circuit Breakers D501006 Motor Control Centers |
| R | | | FDG | Fire Diesel Generator | PF4 only D509002 Emergency Lighting & Power – Backup and Standby Generators |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|--------|--------|----------------------------|---|
| R | | | GND | Grounding System | D5090 Other Electrical Services D509003 Grounding Systems (Use this when applicable to an entire building) (This includes static grounding systems) |
| R | | | LPT | Lightning Protection | D5090 Other Electrical Services D509004 Lightning Protection Lightning protection aerials, grounding conductors, bonding conductors, and connections are all assessed as a system by the square footage of the roof. Lightning protection surge arrestors: <ul style="list-style-type: none"> • If in a panel, they are assessed as part of the panel. • If stand alone, they are assessed individually. |
| R | | | LTGEXT | Lighting, Normal, Exterior | D502002 Lighting Equipment Security Lighting under SEC Op Sys and PIDAS Sys D5030 Communications & Security D503090 Other Communications & Alarm Systems |
| R | | | LTGINT | Lighting, Normal, Interior | D502002 Lighting Equipment (Use this when applicable to an entire building) |
| R | | | OBP | Office Building Power | D501004 Panelboards [Includes ATS, MTS, Safety Switch (CDD), Switchgear, and Lighting Panels] D501005 Enclosed Circuit Breakers D501006 Motor Control Centers |
| R | | | PDS | Power Distribution System | D5010 Electrical Service & Distribution (Use this when applicable to an entire building) D501001 Main Transformers – oil-filled, 15 kV with taps, 480 V secondary 3 phase, pad mounted D501003 Interior Distribution Transformers D501004 Panelboards [Includes ATS, MTS, Safety Switch (CDD), Switchgear, PDU's, and Lighting Panels] D501005 Enclosed Circuit Breakers D501006 Motor Control Centers D501090 Other Service and Distribution – Includes bus ducts D5020 Lighting & Branch Wiring D502001 Branch Wiring |
| R | | | PV | Photovoltaic | D30 HVAC D3010 Energy Supply D301005 Solar Energy Systems |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|------|--------------------------------|--------|---------------------------------------|---|
| R | | | SES | Security Electrical Supply | TA55 only D501004 Panelboards [Includes ATS, MTS, Safety Switch (CDD), Switchgear, and Lighting Panels] D501005 Enclosed Circuit Breakers D501006 Motor Control Centers |
| R | | | SPOS | Seismic Power Shut-Off System | D501004 Panelboards |
| R | | | UPS | Uninterruptible Power Supply | D5010 Electrical Service & Distribution D501005 Enclosed Circuit Breakers D5090 Other Electrical Services D509002 Emergency Lighting & Power Includes battery and inverter |
| R | | | UPS391 | Credited Uninterruptible Power Supply | PF4 only D509002 Emergency Lighting & Power |
| | FGA | Facility Gases and Air | | | Only TA16-0205 and TA16-0450 D20 Plumbing D2090 Other Plumbing Systems |
| R | | | AR | Argon Gas | D209090 Other Special Plumbing Systems |
| R | | | BA | Breathing Air | D209090 Other Special Plumbing Systems |
| R | | | CA | Compressed Air | D209005 Compressed Air System – Non Breathing Air (Use this for large compressed air systems including dryers. For systems supplying solely HVAC system as found in office or training buildings use instrument air.) |
| R | | | H2 | Hydrogen Gas | D209090 Other Special Plumbing Systems |
| R | | | HE | Helium Gas | D209090 Other Special Plumbing Systems |
| R | | | LN2 | Liquid Nitrogen (cryogenic) | D209090 Other Special Plumbing Systems |
| R | | | N2 | Nitrogen Gas | D209090 Other Special Plumbing Systems |
| R | | | O2 | Oxygen Gas | D209090 Other Special Plumbing Systems |
| | TGHS | Tritium Gas Handling System | | | Only TA16-0205 and TA16-0450 D20 Plumbing D2090 Other Plumbing Systems |
| P | | | TGHS | Tritium Gas Handling System | D209090 Other Special Plumbing Systems |
| | TWTS | Tritium Waste Treatment System | | | Only TA16-0205 and TA16-0450 D20 Plumbing D2090 Other Plumbing Systems |
| P | | | TWTS | Tritium Waste Treatment System | D209090 Other Special Plumbing Systems |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|--------------------|--------|--------------------|-------------------------------|
| | FND | Foundry Operations | | | Not in Builder |
| P | | | CAST | Casting Operations | |
| P | | | FRNOPS | Furnace Operations | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|-----------------|------|------------------------------|---|
| | FP | Fire Protection | | | D40 Fire Protection |
| R | | | FBP | Fire Barrier | B10 Superstructure B1030 Wall Construction B103002 Structural Interior Walls – Use for interior fire rated walls B20 Exterior Enclosure B2010 Exterior Walls B201001 Exterior Closure – Use for exterior fire rated walls B2030 Exterior Doors B203090 Other Exterior Specialty Doors – Use for exterior fire doors Door hardware, e.g. latches and releases, “Assessed as part of door” C10 Interior Construction C1020 Interior Doors C102003 Fire Doors – Use for interior fire doors Door hardware, e.g. latches and releases, “Assessed as part of door” C1030 Specialties C103012 Firestopping Penetrations C103013 Sprayed Fire-Resistive Materials Fire dampers not assessed by BUILDER due to inaccessibility. |
| R | | | FCA | Clean Agent Fire Suppression | D4090 Other Fire Protection Systems D409003 Clean Agent Systems |
| R | | | FEXT | Fire Extinguishers | D4050 Fire Protection Specialties D405001 Portable Extinguishers (common and special types of all sizes) |
| R | | | FP | Fire Protection | 500230 Only |
| R | | | FPD | Fire Detection and Alarm | D4010 Fire Alarm and Detection Systems D401001 Fire Alarm Distribution (fire alarm control panel, batteries, addressable fire alarm, and addressable mass notification) This includes detectors, tamper switches, pull stations, notification devices (bells, lights, strobes, horn, or siren). These will not be assessed by Builder. All equipment on, or downstream of, the trip valve will fall under FPS. This includes the water motor gong. |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|--------|-------|-------------------------------------|--|
| R | | | FPS | Fire Protection – Sprinkler System | <p>All equipment on, or downstream of, the trip valve will fall under FPS.</p> <p>D4030 Standpipe Systems D403001 Standpipe Equipment & Piping (includes risers and hoses)</p> <p>D4040 Sprinklers D404001 Sprinklers and Releasing Devices (Dry Pipe, Preaction, Deluge, and Wet Pipe) Includes nitrogen system or air compressors and dryers. Includes Fire Department Connections and Water Motor Gongs. Sprinkler heads and associated piping, instrumentation, etc. are assessed as part of the "system", and the parent equipment to link to is the riser, alarm check valve dry pipe valve, etc.</p> <p>D4090 Other Fire Protection Systems D409001 Carbon Dioxide Systems (includes agent containers, distribution piping and controls) D409002 Foam Generating Equipment D409003 Clean Agent Systems D409004 Hood & Duct Fire Protection</p> |
| R | | | FPW | Fire Protection – Water Supply | <p>D4020 Fire Water Supply / Equip D402001 Fire Protection Water Piping and Equipment (includes storage tank, BFP, OS&Y, PIV, hydrants, and underground distribution main) D402002 Fire Pump (includes controllers, relief valves, jockey pumps, test header, and flow meters)(includes day tank and battery chargers for diesel driven fire pumps)</p> <p>D30 HVAC D3020 Heat Generating Systems D302005 Equipment Thermal Insulation D302090 Other Heat Generating Systems - Use this for heat trace and tank heaters, including circulation pump. Note: The D302005 and D302090 will be replaced in the future under D4020 Fire Water Supply / Equip as the insulation, heat trace, pumps, and inline heaters or boilers are within the boundaries of the fire water supply system.</p> <p>D50 Electrical D5010 Electrical Service & Distribution D501004 Panelboards [Includes ATS, MTS, Safety Switch (CDD), Switchgear, and Lighting Panels]</p> |
| R | | | FSHWI | Fire Suppression Hybrid Water/Inert | PF4 only |
| R | | | SPHS | Standpipe System | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|------|--------------------------|--------|-------------------------------------|---|
| | FS | Fuel Supply | | | D30 HVAC D3010 Energy Supply |
| R | | | FO | Fuel Oil | D301001 Oil Supply System – Use for storage tanks, piping, pumps, etc. Day tanks belong to the supplied equipment. Dedicated equipment may be under own System such as FP for diesel fire pumps of ES for emergency diesel generators. Check equipment ID tags. LANL has no bulk storage tanks to supply other tanks or facilities. |
| R | | | NG | Natural Gas | D301002 Gas Supply System |
| R | | | LPG | Propane Gas | D301002 Gas Supply System |
| | FSTF | Full Scale Test Facility | | | Not in Builder |
| P | | | FSTFH2 | Flammable Gas Control System | |
| P | | | FSTFRC | Credited FSTF | |
| P | | | FSTFU | Full-Scale Test Facility Uncredited | |
| P | | | GASOPS | Gas Operations | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|----------------------------------|--------|--|--|
| | HMP | Hazard Monitoring and Protection | | | F10 Special Construction |
| R | | | CAMS | Continuous Air Monitor System | F10 Special Construction F1030 Special Construction Systems F103003 Radiation Protection |
| R | | | CAS | Criticality Alarm System | F10 Special Construction F1050 Special Ctrls / Instrumentation F105090 Other Special Controls and Instrumentation |
| | | | CO | Carbon Monoxide Detectors | F105090 Other Special Controls and Instrumentation |
| R | | | ESM | Exhaust Stack Radiation Monitoring | F105090 Other Special Controls and Instrumentation |
| R | | | FASS | Fixed Air Head Sampling System | F105090 Other Special Controls and Instrumentation |
| | | | HAZD | Hazardous Gas Monitoring | F105090 Other Special Controls and Instrumentation All types of atmospheric monitoring except oxygen, e.g. propane, refrigerant, hydrogen. |
| P | | | HEP | High Explosives Processing | F105090 Other Special Controls and Instrumentation |
| P | | | O2R | Room Oxygen Monitoring | F105090 Other Special Controls and Instrumentation Monitoring for O2 levels sufficient for personnel safety in a room. |
| R | | | PCM | Personnel Contamination Monitors | F103003 Radiation Protection Includes the P10 bottles, manual valves, and PRV's for the system. |
| R | | | PSS | Personnel Safety System | F105090 Other Special Controls and Instrumentation Warning lights, interlocks, and trips to protect workers from radiation and explosive hazards Initiates accelerator beam, trips Beamstop. Functionally, a combination of a LANSCE-like radiation safety system (RSS) and a high explosive safety system (HESS). Use for TA18 interlocks. |
| P | | | BMSTP | Beam Stop | F103003 Radiation Protection |
| R | | | RADMON | Radiological Monitoring | F103003 Radiation Protection |
| R | | | RMS | Radiation Monitoring System | F103003 Radiation Protection |
| R | | | SHLD | Shielding | F103090 Other Special Construction Systems |
| R | | | SM | Exhaust Stack Monitoring (non-radiation) | F105090 Other Special Controls and Instrumentation |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|--------|------------------------|--------|--|-------------------------------|
| | HSCHAR | HS-Pu Characterization | | | Not in Builder |
| P | | | ASPEC | Alpha Spectrometer | |
| P | | | CALOR | Calorimetry | |
| P | | | DCARC | Direct Current ARC | |
| P | | | ELTEST | Electrical Tester | |
| P | | | GASS | Gas Analysis & Sampling | |
| P | | | GSPEC | Gamma Spectrometer | |
| P | | | HAAS | HAAS Lathe | |
| P | | | HELKCK | Helium Leak Check | |
| P | | | HSACHE | Heat Source Analytical Chemistry | |
| P | | | HSCAN | Heat Source Can Processing | |
| P | | | HSSEM | Heat Source Scanning Electronic Microscope | |
| P | | | HSUT | Ultrasonic Testing | |
| P | | | MET | Metallography | |
| P | | | NER | Neutron Emission Rate | |
| P | | | PARSA | Particle Size Analysis | |
| P | | | UVVIS | UV Vis | |
| P | | | WND | Weighing and Dimensioning | |
| | HSFF | HS-Pu Fuel Fabrication | | | Not in Builder |
| P | | | FGPREP | Fired Granulation Prep | |
| P | | | GRAN | Granular Formation | |
| P | | | HSFURN | Heat Source Furnace | |
| P | | | PELPR | Hot Press | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|--------|---------------------|--------|---|-------------------------------|
| | INSP | Inspection (MQ-1) | | | Not in Builder |
| P | | | CMM1 | Hot Infinity Coordinate Measuring Machine One | |
| P | | | CMM2 | Hot Infinity Coordinate Measuring Machine Two | |
| P | | | CMMC | Cold Coordinate Measuring Machine | |
| P | | | CMMH | Hot Coordinate Measuring Machine | |
| P | | | EDGBRK | Edgebreak | |
| P | | | PROFO | Profilometry | |
| P | | | SHADOW | Shadow Graph Optical Comparator | |
| P | | | SHEFF | Sheffield Gauge | |
| | IPFCOL | IPF Process Cooling | | | Not in Builder 530984 Only |
| P | | | INTCOL | Intermediate Cooling | |
| P | | | MAGCOL | Magnet Cooling | |
| P | | | TGTCOL | Target Cooling | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|-------------------|--------|------------------|---|
| | IS | Industrial Safety | | | |
| R | | | BA | Breathing Air | D20 Plumbing D2090 Other Plumbing Systems D209090 Other Special Plumbing Systems |
| R | | | FALPRO | Fall Protection | Not in Builder Identified tie-off points. |
| R | | | OSHA | OSHA Safety | D20 Plumbing D2010 Plumbing Fixtures D201090 Other Plumbing Fixtures - EYE – Eyewash SHS – Safety Shower, used also for combination of eyewash and safety shower. D50 Electrical D5020 Lighting & Branch Wiring D502002 Lighting Equipment - Exit Signs D509002 Emergency Lighting & Power - Emergency Lights Use this for emergency lights, their battery power, even UPS specific to emergency lighting. F10 Special Construction F1010 Special Structures F101090 Other Special Construction – Use for training simulators F1050 Special Ctrls / Instrumentation F105090 Other Special Controls and Instrumentation Use IS/OSHA for windsocks and AED's, Not in Builder |
| R | | | STOR | Storage Cabinets | C10 Interior Construction C1030 Specialties C103009 Cabinets Storage cabinets for chemicals, flammables, spill kits, etc. Typically contain items that have PM's performed on them. |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|------|--------|--------|------------------------|--|
| | LIFT | Lift | | | For anything associated with "lifting". |
| R | | | DOCKEQ | Loading Dock Equipment | E10 Equipment E1030 Vehicular Equipment E103002 Loading Dock Equipment (Architectural equipment, dock bumpers, rubber blocks, dock levelers, dock lifters, dock shelters, truck, scissor arms, etc.) |
| R | | | ELV | Elevators | D10 Conveying D1010 Elevators and Lifts D101001 General Construction Items D101002 Passenger Elevators (Includes permanently installed man-lifts) D101003 Freight Elevators D101004 Wheelchair Lift D101005 Dumbwaiters D101090 Other Vertical Transportation Equipment (Includes permanently installed lift table and other material handling lifts) D1090 Other Conveying Systems D109002 Conveyors |
| R | | | HC | Hoists and Cranes | D1010 Elevators And Lifts D101090 Other Vertical Transportation Equipment (use this for stationary, fixed in place, drum handling devices and such) D1020 Weight Handling Equipment D102001 Basic Requirements of Cranes and Monorails D102002 Overhead Cranes – Use for all others, even if unknown. Use for breaker handling devices permanently attached to switchgear. D102003 Monorails – Use if known to be a monorail E10 Equipment E1030 Vehicular Equipment E103002 Loading Dock Equipment – includes dock levelers E103004 Automotive Shop Equipment – Use for automotive lifts fixed in place. Hoists, cranes, or drum handlers fixed in place. |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|--------|----------------------------------|--------|-----------------------------|--|
| R | | | MBLEQ | Mobile Lifting Equipment | Not in Builder For any type of equipment used for lifting and is not fixed in place, e.g. forklifts, man lifts, material lifts, lift tables, portable gantry cranes (on wheels designed to be pushed around the building), engine hoists, chain hoists, handling equipment such as drum handlers, breaker handling devices if they are designed to be moved around building. None of these will be linked to Builder as Builder is only for fixed assets. Breaker handling devices attached to the electrical cabinet are part of that cabinet. |
| R | | | RACK | Rack | Not in Builder Equipment storage racks and shelving. |
| R | | | RGNG | Rigging | Not in Builder Any rigging equipment such as slings, eye hooks, and shackles. |
| R | | | TRUDOC | TRUPACT II Working Platform | E103002 Loading Dock Equipment Elevated platform and controls/equipment necessary for TRUPACT-II Waste Handling. |
| | LLW | Low Level Waste | | | Not in Builder |
| R | | | EFF | Effluent | |
| R | | | UF | Ultra Filter | |
| | LLWBPL | Low Level Waste Balance of Plant | | | F10 only |
| R | | | AR | Argon Gas | See Builder Codes under CGS as Op Sys. |
| R | | | AS | Air Sampling | See Builder Codes under HMP as Op Sys. Vacuum Pump Stack Sampling System |
| R | | | BLDG | Building | See Builder Codes under BLDG as Op Sys. |
| R | | | CA | Compressed Air | See Builder Codes under CGS as Op Sys. |
| R | | | CS | Chemical Supply | See Builder Codes under CS as Op Sys. |
| R | | | CW | Chilled Water | See Builder Codes under VNT as Op Sys. |
| R | | | ED | Electrical Distribution | See Builder Codes under ES as Op Sys. |
| R | | | EP | Electrical Power | See Builder Codes under ES as Op Sys. |
| R | | | FBP | Fire Barrier Penetration | See Builder Codes under FBP as Op Sys. |
| R | | | FCS | Facility Control System | See Builder Codes under CTRL as Op Sys. |
| R | | | FP | Fire Protection | See Builder Codes under FP as Op Sys. |
| R | | | HR | Heat Recovery | See Builder Codes under VNT as Op Sys. |
| R | | | HVAC | Heat, Vent, & Air Cond | See Builder Codes under VNT as Op Sys. |
| R | | | HW | Heating Water | See Builder Codes under VNT as Op Sys. |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|--------|-------------------------|--------|--|---|
| R | | | LLWICS | Low Level Waste Internal Collection System | Not in Builder |
| R | | | LP | Lightning Protection | See Builder Codes under ES as Op Sys. |
| R | | | LTG | Lighting | See Builder Codes under ES as Op Sys. |
| R | | | NG | Natural Gas | See Builder Codes under FS as Op Sys |
| R | | | NPW | Non-Potable Water | See Builder Codes under WS as Op Sys. |
| R | | | P10 | P10 Gas | See Builder Codes under CGS as Op Sys. |
| R | | | PCW | Process Cooling Water | See Builder Codes under VNT as Op Sys |
| R | | | PW | Potable Water | See Builder Codes under WS as Op Sys. |
| R | | | RM | Radiation Management | See Builder Codes under HMP as Op Sys. |
| R | | | RO | Reverse Osmosis | Not in Builder |
| R | | | SECW | Secondary Waste | Not in Builder |
| R | | | SS | Sanitary Sewer | See Builder Codes under WSTWTR as Op Sys. |
| R | | | VAC | Vacuum | See Builder Codes under VAC as Op Sys. |
| | LLWPRC | Low Level Waste Process | | | F10 only |
| R | | | CA | Compressed Air | See Builder Codes under CGS as Op Sys. |
| R | | | CS | Chemical Supply | See Builder Codes under CS as Op Sys. |
| R | | | EFL | Treated Effluent | Not in Builder |
| R | | | FESUL | Ferric Sulfate | Fe2O12S3 |
| R | | | H2S04 | Sulfuric Acid | See Builder Codes under CS as Op Sys. |
| R | | | HNO3 | Nitric Acid | |
| R | | | HVAC | Heat, Vent, & Air Cond | See Builder Codes under VNT as Op Sys. |
| R | | | INF | Influent Storage | Not in Builder |
| R | | | IX | Ion Exchange | Not in Builder |
| R | | | LLWICS | Low Level Waste Internal Collection System | Not in Builder |
| R | | | MCRFLT | Microfilter | Not in Builder |
| R | | | MF | Microfiltration | Not in Builder |
| R | | | MGSO4 | Magnesium Sulfate | MgSO4 |
| R | | | NAOH | Sodium Hydroxide | See Builder Codes under VNT as Op Sys. |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|------|-----------|--------|--|-------------------------------|
| R | | | RO | Reverse Osmosis | Not in Builder |
| R | | | RXN | Reaction/Precipitation | Not in Builder |
| R | | | SECW | Secondary Waste | Not in Builder |
| | MACH | Machining | | | Not in Builder |
| P | | | BOSTO | Bostomatic | |
| P | | | FMLATH | Back Machine | |
| P | | | HAASL1 | CNC/Manuel Lathe for Part Prep and Disassembly | |
| P | | | LATS | Lathes | |
| P | | | MDMU | DMU-35 Manufacturing | |
| P | | | MDRILL | Manual Drill and Press | |
| P | | | MHARD1 | Manual Hardinge1 | |
| P | | | MHARD2 | Manual Hardinge2 | |
| P | | | MHARD3 | Manual Hardinge3 | |
| P | | | MLATHE | Myford Lathe | |
| P | | | MMS | Milling Machines | |
| P | | | NNMACH | Non-Nuclear Machining | |
| P | | | TBASE1 | Moore Tbase1 | |
| P | | | TBASE2 | Moore Tbase2 | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|--------|--|--------|-------------------------------|-------------------------------|
| | MAGGEN | Magnetic Generator | | | Not in Builder |
| P | | | CI | Chemical Injection | |
| P | | | DS | Drive System | |
| P | | | DSC | Drive System Cooling | |
| P | | | EX | Exciter | |
| P | | | EXC | Exciter Cooling | |
| P | | | GAD | Generator Air Drying | |
| P | | | GC | Generator Cooling | |
| P | | | GD | Generator Disassembly | |
| P | | | GLO | Generator Lube Oil | |
| P | | | GJ | Generator Jacking | |
| P | | | GLOC | Generator Lube Oil Cooling | |
| P | | | GT | Generator Turning Gear | |
| P | | | GW | Generator Waste Water | |
| P | | | HEAT | Heat | |
| P | | | HVAC | Heat, Vent, & Air Cond | |
| | MCPP | Metals & Ceramic Part Processing | | | Not in Builder |
| P | | | CENTOR | CENTORR Furnace Operation | |
| P | | | CM1750 | CM Furnace Operation | |
| P | | | PRTPRS | Part Pressing | |
| P | | | PRTSAN | Non-SNM Part Sanitization | |
| | MISS | Material, Identification, Surveillance and Stabilization | | | Not in Builder |
| P | | | HGAS | Headspace Gas Analysis System | |
| P | | | MISLC | MIS Large Can | |
| P | | | MISSC | MIS Small Can Sample | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|--------|---|--------|-----------------------------|---|
| | MTCHAR | Material Characterization | | | Not in Builder |
| P | | | MTA | Material Analysis | |
| P | | | MTPREP | Sample Material Preparation | |
| P | | | XRD | X-Ray Diffraction | |
| | NCERC | National Criticality Experiments Center | | | Not in Builder DAF Only |
| P | | | COMET | Comet | Support stand, two stacked hydraulic rams and a stepper motor drive. Comet is a general purpose critical assembly machine used to move nuclear materials into a critical configuration. |
| P | | | FLATOP | Flat-Top | Support table, two hydraulic rams and three stepper motor driven control rod drives. The Flat-Top critical assembly is a benchmark critical assembly consisting of a natural uranium reflector and two fissile cores, one enriched uranium, one plutonium. |
| P | | | GODIVA | Godiva | Core, hydraulic ram-driven safety block, compressed air cylinder-driven burst rod, 2 stepper-motor-driven control rods. A prompt burst critical assembly. The core consists of a stack of high enriched uranium rings and plates. |
| P | | | NI | Nuclear Instrumentation | Log-N, linear channel, startup counter, and area monitoring subsystems. Monitors the neutron leakage that is generated in the critical configuration. |
| P | | | OIS | | Part of SCRAM |
| P | | | PLANET | Planet | |
| P | | | SCRAM | SCRAM | Buttons, interlocks, horns, beacons. Provides an automatic shutdown of the critical assemblies due to a trip of the Nuclear Instruments, an operator pushing a manual SCRAM button, or a door being opened during remote operation. Also provides warning horns and beacons that indicate a critical assembly operation is underway. SCRAM Safety System (SSS), Operational Interlock System (OIS) |
| P | | | SSS | SCRAM Safety System | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|--------|----------------------------|--------|---|--|
| | NDA | Non-Destructive Analysis | | | Not in Builder |
| P | | | CAL | Calorimeter | |
| P | | | IRNDA | In Room NDA Devices | |
| P | | | ISO | Gamma Isotopic System | |
| P | | | NBC | Neutron Barrel Counter | |
| P | | | NSC | HOLDUP/Safeguards Neutron Slab Counter | |
| P | | | PANI | Passive/Active Neutron Counter | |
| P | | | QED | Low Level Drum Counter | |
| P | | | SAI | Solution Assay Instrument | |
| P | | | SGS | Segmented Gamma Scanner | |
| P | | | SH2 | Uranium Shuffler | |
| P | | | SNAP | Special Non-Destructive Assay Platform | |
| P | | | TGSC | Tomographic Gamma Scanner, Can | |
| P | | | TGSD | Tomographic Gamma Scanner, Drum | |
| P | | | TNC | Thermal Neutron Counter | |
| P | | | WCAS | Crate Counter | |
| | NDE | Non-Destructive Evaluation | | | Not in Builder PF4 Only |
| P | | | CABRT | Cabinet Radiography Operations | |
| P | | | DYEPEN | Dye Penetrant | |
| P | | | EDDY | Eddy Current | |
| P | | | NDMOS | Nondestructive measurement and observation measurement system | |
| P | | | UT | Ultrasonic Testing | |
| | NONRAD | Non Radiological | | | Not in Builder Op Sys & Sys created to allow procurement. For Cold Lab Laboratory equipment |
| P | | | XPRDEV | Experimental Process Development | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|------|----------------------------------|--------|---|---|
| | OSRP | Off-Site Source Recovery Program | | | Not in Builder |
| P | | | OSRPO | Pipe Overpack Container | |
| P | | | OSRPS | Off-Site Source Recovery Material Staging | |
| | PLW | Process Liquid Waste | | | TA55 only |
| R | | | AWS | Acid Waste System | D20 Plumbing D2090 Other Plumbing Systems D209002 Acid Waste Systems |
| R | | | CWS | Caustic Waste System | G30 Site Civil/Mechanical Utilities G3090 Other Site Mechanical Utilities G309090 Other Industrial Waste |
| R | | | IWS | Industrial Waste System | G309090 Other Industrial Waste |
| | PROG | Programs | | | |
| P | | | CONOPS | Conduct of Operations Performance Checks | No real equipment, but program. Not in Builder Includes F06 Quarterly Radioactive Material Inventory Surveillance |
| P | | | PSCS | Pressure Safety | Includes real and programmatic equipment. Relief devices will not be in Builder. Tanks and Pressure Vessels will be in Builder. |
| P | | | CHEM | Chemical Inventory | No real equipment, but program. Not in Builder |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|------|----------------------------|--------|---|--|
| | PSAA | Power Source Assembly Area | | | 550005 Only |
| P | | | PCW | Process Cooling Water | D30 HVAC D3040 Distribution Systems D304004 Change Over Distribution Systems – Use for water to water heat exchangers D304006 Chilled Water Distribution Systems – Use for pump, and tanks (expansion, chem feed, etc.) |
| P | | | PSAVAC | PSAA Vacuum | Not in Builder |
| P | | | PSPROD | Power Source Production | Not in Builder |
| P | | | PSSHIP | Power Source Shipping | Not in Builder |
| P | | | PSTEST | Power Source Testing | Not in Builder |
| P | | | RGEN | Regen Gas | D20 Plumbing D2090 Other Plumbing Systems D209090 Other Special Plumbing Systems |
| P | | | YAGRTG | RTG Laser Welder | Not in Builder |
| | PVES | Pressure Vessels | | | TA55 Only Not in Builder |
| P | | | CPV | Containment Pressure Vessels | |
| P | | | HIP | Hot Isostatic Press | |
| | PYRO | Pyrochemistry WG-Pu | | | PF4 Only Not in Builder |
| P | | | CALDOR | Pu Metal Oxidation | |
| P | | | COAL | Coalescence | |
| | | | DOR | Direct Oxidation Reduction | |
| P | | | DORMC | Direct Metal Oxidation and Metal Chlorination | |
| P | | | ER | Electrorefining | |
| | | | MC | Metal Chlorination | |
| P | | | SALTS | Salt Casting | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|--------|----------------------|--------|---|-------------------------------|
| | PYROLS | Pyrolysis HS-Pu | | | Not in Builder |
| P | | | HYDFLO | Hydroxide Precipitation & Flocculation PYROLS | |
| P | | | TSCM | Thermal Stabilization of 238 HS-Pu | |
| | QE | Quartz Encapsulation | | | Not in Builder |
| P | | | | | |
| | RDGRPH | Radiography | | | Not in Builder |
| P | | | HYTEC | Radiography HYTEC | |
| P | | | IRO | Interim Radiography Operations | |
| P | | | RADSCB | Closed Beam Radiography | |
| P | | | RADSOB | Open Beam Radiography | |
| P | | | RADRTR | Real Time Radiography | |
| P | | | RADSU | Radiography Unit | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-------|------------------------------------|--------|---|--|
| | RLWCS | Low Level Waste Collection Systems | | | |
| R | | | ILW | Industrial Liquid Waste | D20 Plumbing D2090 Other Plumbing Systems D209090 Other Special Plumbing Systems |
| R | | | IWS | Industrial Waste System | G30 Site Civil/Mechanical Utilities G3090 Other Site Mechanical Utilities G309090 Other Industrial Waste D50 Electrical D5010 Electrical Service & Distribution D501004 Panelboards – Use for disconnect switches. D20 Plumbing D2030 Sanitary Waste D203003 Floor Drains – Use for floor drains and floor cups. D20 Plumbing D2010 Plumbing Fixtures D201004 Sinks – Use for sinks. IWS from PF4 goes to PLW, and is under that Op Sys. |
| R | | | LLWICS | Low Level Waste Internal Collection System | D209090 Other Special Plumbing Systems |
| R | | | RLW | Radioactive Liquid Waste Interior Collection System | D209090 Other Special Plumbing Systems |
| R | | | RLWECS | LLW Exterior Collection System | D209090 Other Special Plumbing Systems |
| R | | | RLWICS | LLW Interior Collection System | D209090 Other Special Plumbing Systems |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|--------|-----------------------------------|--------|--------------------------------------|---|
| | RLWLLW | Low Level Waste Treatment Systems | | | F10 only |
| R | | | CIP | Clean-in-Place | Not in Builder |
| R | | | CL | Clarifiers | Not in Builder |
| R | | | CSP | Chemical Supply - Process | Not in Builder |
| R | | | CUF | Centrifugal Ultra Filter | Not in Builder |
| R | | | EFFEVP | Effluent Evaporation | Not in Builder |
| R | | | GRVF | Gravity Filter | Not in Builder |
| R | | | INF | Influent Storage | Not in Builder |
| R | | | LLWSTO | Low Level Storage | Not in Builder |
| R | | | MCRFLT | Microfiltration | Not in Builder |
| R | | | MF | Microfiltration | Not in Builder |
| R | | | PIX | Perchlorate Ion Exchange | Not in Builder |
| R | | | POL | Polish and Sample Effluent | Not in Builder |
| R | | | PRO | Primary Reverse Osmosis | Not in Builder |
| R | | | RLW | Radioactive Liquid Waste | Not in Builder |
| R | | | RO | Reverse Osmosis | Not in Builder |
| R | | | RVF | Rotary Vacuum Filter | Not in Builder |
| R | | | SRO | Secondary RO | Not in Builder |
| R | | | SW | Sanitary Waste | See Builder Codes under WSTWTR as Op Sys. |
| R | | | TUF | Tubular Ultra Filter | Not in Builder |
| R | | | WEVP | Waste Evaporation | Not in Builder |
| R | | | WM2 | WM2 Influent - Effluent Distribution | Not in Builder |
| R | | | WMRM | Waste Mitigation Risk Mgmt | Not in Builder |
| R | | | ZLD | Zero Liquid Discharge | Not in Builder |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|--------|--------------------|------|-----------------------------|--|
| | RLWTRU | TRU Systems | | | Not in Builder F10 only |
| R | | | INF | Influent Storage | |
| R | | | TCS | | |
| R | | | TINF | TLW or TRU Influent Storage | |
| R | | | TLT | TRU Liquid Treatment | |
| R | | | TST | TRU Sludge Treatment | |
| | SD | Steam Distribution | | | |
| R | | | CON | Condensate | D30 HVAC D3040 Distribution Systems D304002 Steam Distribution Systems (Use this when applicable to an entire building) D302004 Auxiliary Equipment – Use for tanks and pumps |
| R | | | STM | Steam | D30 HVAC D3020 Heat Generating Systems D302001 Boilers – For boilers, feedwater, makeup, blowdown, chemical addition, etc. Safety valves will not be assessed by Builder. D302004 Auxiliary Equipment – Use for tanks, including air separators. D3040 Distribution Systems D304002 Steam Distribution Systems – Reducing valves and steam traps will not be assessed by Builder. |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|----------|--------|----------------------------|---|
| | SEC | Security | | | |
| R | | | AACS | Automated Access Control | D50 Electrical D5030 Communications & Security D503005 Security Systems Badge readers, personal identification number (PIN) entry keypads (RAPs), biometric devices, door strikes, electric latches, door openers/closers/holders Turnstiles under B203007 Gates (outside) or C102006 Interior Gates (inside) |
| R | | | AFP | Argus Field Panel | D503005 Security Systems |
| R | | | ECF | Entrance Control Facility | D503005 Security Systems F10 Special Construction F1050 Special Ctrls / Instrumentation F105090 Other Special Controls And Instrumentation – Use for security x-ray equipment and cameras. G20 Site Improvements G2010 Roadways G202005 Guardrails & Barriers (Barriers used to restrict traffic for security reasons, slow approach, even hydraulic pop-up barriers at entrance gates) |
| R | | | IDS | Intrusion Detection System | D503090 Other Communications & Alarm Systems Intrusion detection inside the perimeter, includes detection, & alarms |
| P | | | MARTRK | Material at Risk Tracker | Not in Builder RLUOB Only: Software name is Laboratory Information Management system (LIMS). |
| R | | | PASS | PASS Site Access Control | D503005 Security Systems Site Access Control System |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|--------|----------------------------------|--------|--|--|
| R | | | PIDAS | Perimeter Intrusion Detection/Assessment [& Delay] | D503090 Other Communications & Alarm Systems (Radio communications, microwave detection systems, metal detectors, tamper indicating switches F1010 Special Structures F101002 Exterior Utility Buildings - Security tower F1050 Special Ctrls / Instrumentation F105090 Other Special Controls And Instrumentation – Use for security cameras. G2040 Site Development G204001 Fencing & Gates G204004 Security Structures (Guard stations) G40 Site Electrical Utilities G4020 Site Lighting G402002 Special Security Lighting Systems (Security lighting) |
| R | | | SAFE | Safe | E10 Equipment E1010 Commercial Equipment E101005 Security & Vault Equipment – Use for source safes like at TWF. |
| R | | | VTR | Vault Type Room | F10 Special Construction F1020 Integrated Construction F102090 Other Integrated Construction Structural assemblies |
| | SMPFAB | Sample Fabrication | | | Not in Builder |
| P | | | DMU35 | DMU 35 Milling Machining | |
| P | | | LBASE | Moore L-Base Lathe | |
| P | | | PRECI1 | Precitech Lathe1 | |
| P | | | PRECI2 | Precitech Lathe2 | |
| | SNMST | Special Nuclear Material Storage | | | Not in Builder PF4 only |
| P | | | FRS | Fire Rated Safes | |
| P | | | KRX | Kardex | |
| P | | | SAFES | Safes, SNM | |
| P | | | STRG | NonCredited SNM Storage | |
| P | | | STRGC | Shelves, Storage Racks, Cages and Kardex | Credited shelves, storage racks, cages, Kardex Stores SNM, prevents criticality including during a seismic event. |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|------|--------|--------|------------------|--|
| | TOOL | Tool | | | Not in Builder |
| R | | | SHOPEQ | Stationary tools | Tools expected to be stationary such as large drill presses or lathes. |
| R | | | PORTL | Portable tools | <p>Sys: PORTL – Portable Tools</p> <p>If it is designed to be moved, but not down the road, it is likely the Sys of Portable Tool under the Op Sys of TOOL. Examples would be carts designed to push around a building regardless of what is on the cart such as a welder, pressure tester, small air compressor, etc.</p> <p>Tools designed to be taken to the jobsite such as electric drills, chainsaws, skill saws, etc.</p> <p>Includes test equipment.</p> <p>Walk-behind snow blowers, walk-behind mowers, and weed eaters.</p> <p>Large mowers that are at times attached to tractors via 3-point hitches.</p> <p>Loader buckets, dozer blades, back blades, etc., that can be attached to tractors.</p> <p>Snow plows to be attached to trucks or tractors.</p> |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|------|--------------------------|------|--------------------------------|--|
| | TRIT | Tritium | | | |
| P | | | GTE | Gas Treatment, Effluent (SRL) | Not in Builder PF4 only |
| P | | | GTF | Gas Treatment, Furnace (SRL) | Not in Builder PF4 only |
| P | | | HIS | Hot-Inlet System | Not in Builder 160205 only |
| P | | | TCV | Tritium Containment Vessel | D20 Plumbing D2090 Other Plumbing Systems D209090 Other Special Plumbing Systems 160205 only |
| P | | | TGCS | Tritium Gas Containment System | D209090 Other Special Plumbing Systems 160205 only |
| P | | | TGHS | Tritium Gas Handling System | D209090 Other Special Plumbing Systems 160205 only |
| P | | | TMS | Tritium Monitoring System | F10 Special Construction F1050 Special Ctrls / Instrumentation F105090 Other Special Controls and Instrumentation 160205 only |
| P | | | TWTS | Tritium Waste Treatment System | D209090 Other Special Plumbing Systems 160205 only |
| | TRU | Transuranic Liquid Waste | | | Not in Builder F10 only |
| R | | | INF | Influent Storage | |
| R | | | TCS | | |
| R | | | TLT | TRU Liquid Treatment | |
| R | | | TST | TRU Sludge Treatment | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-------|---------------------------------|--------------|-------------------------|--|
| | UCOMM | Utilities Communications | | | |
| R | | | TEL | Telecommunications | G40 Site Electrical Utilities G4030 Site Communication and Security G403001 Telecommunications Systems G403003 Cables & Wiring G403004 Ductbanks, Manholes & Handholes G403005 Towers, Poles & Stands G403008 Other Communication & Alarm G403009 Grounding Systems |
| | UEG | Utilities Electrical Generation | | | |
| R | | | CON | Condenser | D302001 Boilers – Use for steam turbine generator exhaust condenser, including pumps, gland exhaust, etc. |
| R | | | GT GTXXXX | Gas Turbine Generator | Not in Builder Gas compressors, air filtration, instrument air, fuel, motor control and low voltage electrical, lube oil |
| R | | | NGC | Natural Gas Compressor | G306006 Gas Distribution Piping For use in combustion gas turbine. |
| R | | | STG | Steam Turbine Generator | Not in Builder As of October 2, 2019, the BUILDER Catalog has no option for steam driven electrical generating system. These <i>utility scale</i> generators typically operate full time. Instrument air, motor control and low voltage electrical, generator breaker, lube oil Condenser, lube oils, control air/oil, cooling tower, circulating water, motor control and low voltage electrical |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|-----------------------------|---|---------------------------------|---|
| U | UES | Utilities Electrical Supply | | | |
| U | | | ET ETxx (example: ET03, ETMP) | Electrical Transmission (115kV) | D50 Electrical D5010 Electrical Service & Distribution D501001 Power Transformers – oil-filled, 115kV with taps, 15kV secondary, 3 phase, pad-mounted G40 Site Electrical Utilities G4010 Electrical Distribution G401001 Substations G401002 Transformers G401003 Switches, Controls & Devices G401005 Towers, Poles, Crossarms & Insulators G401007 Ductbanks, Manholes, Handholes & Raceways |
| U | | | ED EDxxxx (example: EDSM01, EDTA03) | Electrical Distribution (15kV) | D50 Electrical D5010 Electrical Service & Distribution D501001 Power/Distribution Transformers – oil-filled/dry-type, 15 kV with taps, >600V secondary 3/1-phase, pad-mounted/pole-mount G40 Site Electrical Utilities G4010 Electrical Distribution G401001 Substations G401002 Transformers G401003 Switches, Controls & Devices G401005 Towers, Poles, Crossarms & Insulators G401007 Ductbanks, Manholes, Handholes & Raceways |
| U | | | EM EMXXXX (example: EMS4, EMS17) | Electrical Meter | D50 Electrical D5010 Electrical Service & Distribution D501001 Metering G40 Site Electrical Utilities G4010 Electrical Distribution G401001 Primary Metering |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|------|-----------------------|---------------------------------------|--|--|
| | UFS | Utilities Fuel Supply | | | LANL has no bulk fuel storage tanks to supply other tanks or facilities. Facility fuel storage tanks under FS Op Sys. |
| U | | | NG NG1 NG2 NG3 NG4 NG5 | Natural Gas Natural Gas Line Segment Number | G30 Site Civil/Mechanical Utilities G3060 Fuel Distribution G306006 Gas Distribution Piping (Natural Gas only. LANL has no distribution system for propane) G306009 Other Gas Distribution NG1 - 5 (distribution) High Pr – NG Med Pr – NGM Low Pr – NGL Piping, pressure regulators/stations; block, relief, and control valves; rectifiers, meters, gauges, analyzers. NG1 (TAs 3, 60, 61), NG2 (TAs 6, 8, 9, 15, 16, 22, 69), NG3 (TAs 39, 49), NG4 (TAs 53), NG5 (TAs 35, 46, 48, 50-52, 54, 55, 59, 63, 64, 66) Distributes natural gas (NG1 - 5, Utilities), becomes NG just outside and within facilities for heating and process equipment such as furnaces. High Pr > 5 psig; Low Pr < 14" W.C. |
| | UOPS | Uranium Ops | | | Not in Builder |
| P | | | UCAL | Calorimeter | |
| P | | | UEE | Uranium Electrolytic Etching | |
| P | | | UOX | Uranium Oxidation | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|-------------------|--------|----------|--|
| | URG | Roads and Grounds | | | |
| R | | | BRIDGE | Bridges | G90 Other Site Construction G9090 Other Site Construction G909001 Bridges |
| R | | | PAVMNT | Pavement | G20 Site Improvements G2010 Roadways G201001 Bases & Subbases G201002 Curbs & Gutters G201003 Paved Surfaces G201004 Marking & Signage G201005 Guardrails & Barriers G201006 Resurfacing G201090 Other Roadways G2020 Parking Lots G202001 Bases & Subbases G202002 Curbs & Gutters G202003 Paved Surfaces G202004 Marking & Signage G202005 Guardrails & Barriers G202006 Resurfacing G202007 Miscellaneous Structures and Equipment G202090 Other Parking Lots G2030 Pedestrian Paving G203001 Bases & Subbases G203002 Curbs & Gutters G203003 Paved Surfaces G203004 Guardrails & Barriers G203005 Resurfacing G203090 Other Walks, Steps & Terraces Includes Roads, Curbs, Gutters, Trails, Striping, Parking Lots, Sidewalks, Signage |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|--------|--------|---------------------|---|
| R | | | SB | Site Beautification | G20 Site Improvements G2040 Site Development G204001 Fencing & Gates G204002 Retaining Walls and Freestanding Walls G204003 Exterior Furnishings G204005 Signage G204006 Fountains & Pools G204008 Terrace and Perimeter Walls G204009 Flagpoles G204090 Other Site Improvements G2050 Landscaping G205006 Planters G205007 Irrigation Systems G205090 Other Landscaping |
| R | | | SIGNAL | Traffic Signals | G20 Site Improvements G2010 Roadways G201004 Marking & Signage |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|------------------------------|------|--------------------------|---|
| U | | | USTW | Utilities Storm Water | G30 Site Civil/Mechanical Utilities G3030 Storm Sewer G303001 Storm Sewer Piping G303002 Storm Sewer Structures G303003 Lift Stations G303004 Culverts G303005 Headwalls G303006 Erosion & Sediment Control Measures G303007 Stormwater Management G303090 Other Storm Sewer For stormwater under jurisdiction of Roads and Grounds. For individual buildings See WSTWTR/STW. |
| R | | | VB | Vehicle Barriers | G20 Site Improvements G2010 Roadways G201005 Guardrails & Barriers (Includes credited barriers preventing vehicles impacting critical facility structures as well as those for general traffic control or in lieu of guardrails) (Includes bollards, jersey barriers, cables, etc.) Barriers used for security purposes are under SEC/ECF. |
| | USD | Utilities Steam Distribution | | | Regardless of system, safety and relief valves will not be assessed by Builder. |
| R | | | BFW | Boiler Feedwater | D30 HVAC D3020 Heat Generating Systems D302001 Boilers – For boilers, feedwater, makeup, blowdown, chemical addition, etc. D302004 Auxiliary Equipment – Use for tanks, including air separators. |
| R | | | BLR | Boilers | D302001 Boilers – Includes forced draft fans, flue gas recirculating fans, safety valves, etc. |
| R | | | CRS | Condensate Return System | D304002 Steam Distribution Systems – Condensate being returned from buildings to steam plant |
| R | | | TW | Cooling Towers | G30 Site Civil/Mechanical Utilities G3050 Cooling Distribution G305006 On-Site Cooling Towers |
| U | | | STM | Steam | D3040 Distribution Systems D304002 Steam Distribution Systems (From Central Plant) Includes manholes and pits Reducing valves and steam traps will not be assessed by Builder. |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|--------|------------------------|---|----------------------------------|---|
| | UWSTWR | Utilities Waste Water | | | |
| R | | | UWWP | Utilities Waste Water Plant | G30 Site Civil/Mechanical Utilities G3020 Sanitary Sewer G302004 Packaged Sanitary Sewer Treatment Plants |
| U | | | UWWC | Utilities Waste Water Collection | F10 Special Construction F1020 Integrated Construction F102002 Integrated Assemblies (Sewage lagoon, aerator, etc.) G30 Site Civil/Mechanical Utilities G3020 Sanitary Sewer G302001 Sanitary Sewer Piping G302002 Sanitary Sewer Manholes & Cleanouts G302003 Lift Stations and Pumping Stations G302004 Packaged Sanitary Sewer Treatment Plants G302005 Septic Tanks G302006 Drain Fields G302090 Other Sanitary Sewer – Use for sumps, pumps, and tanks |
| | UWS | Utilities Water Supply | | | |
| U | | | WD WD1 WD2 WD3 WD4 WD5 WD6 WD7 WD8 WD9 WD10 WD11 WD12 WD13 | Water Distribution | G30 Site Civil/Mechanical Utilities G3010 Water Supply G301002 Potable Water Distribution – Use this for the water distribution loop around site G301003 Potable Water Storage – Use this for water storage tanks. For dedicated FWST’s see Fire Protection. G301004 Fire Protection Water Distribution – Use this for fire hydrants and block valves outside building jurisdictions G301007 Pumping Stations TA00 – Utility water distribution line segment crossing multiple TA's WD1 (TAs 00, 53, 61, and 72), WD2 (TAs 00, 02, 21, 41, 43, and 73), WD3 (TAs 00, 03, 58, 59, and 60), WD4 (TAs 00, 48 and 64), WD5 (TAs 00 and 55), WD6 (TAs 00 and 16), WD7 (TAs 00, 06, 08, 09, 22, 40 and 69), WD8 (TAs 00, 11, 14 and 15), WD9 (TAs 00, 35, and 50), WD10 (TAs 00, 36, 52, and 63), WD11 (TAs 00, 18, 36, and 54), WD12 (TAs 00, 46 and 51), and WD13 (TAs 00, 33, 39, and 49) |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|------|---------|--------|---------------------------|---|
| | VAC | Vacuum | | | D30 HVAC D3090 Other HVAC Systems and Equipment D309090 Other Special Mechanical Systems |
| R | | | DV | Dry Vacuum | D309090 Other Special Mechanical Systems In PF4, all DV in Area 300 |
| R | | | DRYVAC | Dry Vacuum | D309090 Other Special Mechanical Systems RLUOB only |
| R | | | HEPVAC | Portable HEPA Vacuums | D309090 Other Special Mechanical Systems |
| | | | HDV | House Dry Vacuum | D309090 Other Special Mechanical Systems In PF4, all HDV in Areas 100, 200, and 400 |
| R | | | HPV | Health Physics Vacuum | D309090 Other Special Mechanical Systems D50 Electrical D5090 Other Electrical Services D509090 Other Special Systems and Devices (Use for VFD's) |
| R | | | MVP | Miscellaneous Vacuum Pump | D309090 Other Special Mechanical Systems In PF4, all 1 st floor dry vacs are MVP |
| | | | VAC | Vacuum | D309090 Other Special Mechanical Systems |
| R | | | WV | Wet Vacuum | D309090 Other Special Mechanical Systems |
| | VHCL | Vehicle | | | Not in Builder For equipment designed to go down the road. Not for anything associated with lifting such as cranes, fork lifts, man lifts, rigging, etc. |
| R | | | MOT | Motorized | Trucks, tractors, loaders, riding mowers, ATVs/OHVs, etc. |
| R | | | NMOT | Non-Motorized | Trailers of all types from small cargo trailers to belly dump pulled by tandem axle truck tractors. Large mowers pulled behind tractors that could also be moved by a truck. |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|-------------|------|-----------------------------------|--|
| | VNT | Ventilation | | | Regardless of system, safety and relief valves will not be assessed by Builder. |
| R | | | CCHW | Central Circulating Heating Water | D30 HVAC D3020 Heat Generating Systems D302001 Boilers – For boilers, feedwater, makeup, blowdown, chemical addition, etc. Safety valves will not be assessed by Builder. D302004 Auxiliary Equipment – Use for tanks, including air separators. D3040 Distribution Systems D304003 Hot Water Distribution Systems – Use for pumps D3060 Controls & Instrumentation – Some of these in MEL, but did not see any on initial Builder assessments. D306001 HVAC Controls – Including PDI’s D306002 Electronic Controls – Includes duct mounted smoke detectors D306003 Pneumatic Controls (includes VAV’s) D306004 Instrument Air Compressors (Use this for small systems supplying solely HVAC system as found in office or training buildings. For larger systems used for other purposes as well see Compressed Air System.) |
| R | | | CVS | Confinement Ventilation System | D3040 Distribution Systems D304007 Exhaust Systems – Includes fans. Filters, HEPA filters, and dampers will not be assessed. |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|--------|-----|---------------|---|
| R | | | CW | Chilled Water | D30 HVAC D3010 Energy Supply D301090 Other Energy Supply – Use for RLUOB ice storage D3030 Cooling Generating Systems D303001 Chilled Water Systems – Use for chillers and condensers (small HX's such as oil coolers will not be assessed individually, but as part of the chiller package) Use for cooling coils inside AHU's. D303002 Direct Expansion Systems D3040 Distribution Systems D304004 Change Over Distribution Systems – Use for water to water and glycol to water heat exchangers. D304005 Glycol Distribution Systems – Use for glycol chillers, condensers, circulating pumps, expansion tanks, chem feed, etc. (small HX's such as oil coolers will not be assessed individually, but as part of the chiller package) D304006 Chilled Water Distribution Systems – Use for pump and tanks (expansion, chem feed, etc.). D3090 Other HVAC Systems and Equipment D309090 Other Special Mechanical Systems – Use for refrigerant storage tanks/systems. D50 Electrical D5090 Other Electrical Services D509090 Other Special Systems and Devices (Use for VFD's) |
| R | | | EXH | Exhaust | D304007 Exhaust Systems – Includes fans, even fume hood and glove box exhaust fans, and stacks. Filters, HEPA filters, dampers, scrubbers, and duct mounted smoke detectors will not be assessed. D50 Electrical D5090 Other Electrical Services D509090 Other Special Systems and Devices (Use for VFD's) |
| R | | | HR | Heat Recovery | D304008 Air Handling Units D509090 Other Special Systems and Devices (Use for VFD's) |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|--------|--------|------------------------|--|
| R | | | HVAC | Heat, Vent, & Air Cond | <p>D30 HVAC</p> <p>D3020 Heat Generating Systems</p> <p style="padding-left: 20px;">D302002 Furnaces</p> <p style="padding-left: 20px;">D302003 Fuel-Fired Unit Heaters (use for HUG's)</p> <p style="padding-left: 20px;">D302090 Other Heat Generating Systems</p> <p>D3040 Distribution Systems</p> <p style="padding-left: 20px;">D304001 Air Distribution Heating & Cooling – Use for Fans, Humidifiers, Dehumidifiers, VAV Terminals.</p> <p style="padding-left: 40px;">Duct Mounted Heating Coils and Dampers will not be assessed.</p> <p style="padding-left: 20px;">D304008 Air Handling Units – Use also for air-to-air heat exchangers</p> <p style="padding-left: 20px;">D304090 Other Distribution Systems</p> <p>D3050 Terminal & Package Units</p> <p style="padding-left: 20px;">D305001 Unit Ventilators (fans, including makeup air)</p> <p style="padding-left: 20px;">D305002 Unit Heaters (infrared and hydronic, which includes both HUW heating water and HUS steam) Use D305005 Electric Heating if electrically powered HUE. Use D302003 Fuel-Fired Unit Heaters if gas heated HUG.</p> <p style="padding-left: 20px;">D305003 Fan Coil Units</p> <p style="padding-left: 20px;">D305004 Fin Tube Radiation (baseboard)</p> <p style="padding-left: 20px;">D305005 Electric Heating – Used this even when equip is Unit Heater if it is electrically powered.</p> <p style="padding-left: 20px;">D305006 Package Units (Includes RUA's, heat pumps, evap coolers, air washers/pumps, and window AC units)</p> <p style="padding-left: 20px;">D305090 Other Terminal & Package Units</p> <p>D3060 Controls & Instrumentation – Some of these in MEL, but did not see any on initial Builder assessments.</p> <p style="padding-left: 20px;">D306002 Electronic Controls – Includes duct mounted smoke detectors</p> <p style="padding-left: 20px;">D306003 Pneumatic Controls (includes VAV's)</p> <p style="padding-left: 20px;">D306004 Instrument Air Compressors (Use this for small systems supplying solely HVAC system as found in office or training buildings. For larger systems used for other purposes as well as maybe HVAC see Compressed Air System.)</p> <p>D50 Electrical</p> <p style="padding-left: 20px;">D5090 Other Electrical Services</p> <p style="padding-left: 40px;">D509090 Other Special Systems and Devices (Use for VFD's)</p> |
| R | | | HVACCF | HVAC Confinement | <p>D509090 Other Special Systems and Devices (Use for VFD's)</p> |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|--------|--------|--------------------------------|--|
| R | | | HVACOB | HVAC, Office Bldg | RLUOB only D30 HVAC D3010 Energy Supply D301090 Other Energy Supply – Use for RLUOB ice storage D3030 Cooling Generating Systems D303001 Chilled Water Systems – Use for chillers and condensers D303002 Direct Expansion Systems D3040 Distribution Systems D304006 Chilled Water Distribution Systems – Use for pump and tanks (expansion, chem feed, etc.) D3040 Distribution Systems D304001 Air Distribution Heating & Cooling – Use for Humidifiers, Dehumidifiers, and VAV Terminals. Dampers are not to be addressed due to low cost and inaccessibility. D304008 Air Handling Units – Use also for air-to-air heat exchangers D3050 Terminal & Package Units D305001 Unit Ventilators (fans, including makeup air) D305002 Unit Heaters (infrared and hydronic, which includes both heating water and steam) D305003 Fan Coil Units D305004 Fin Tube Radiation D305005 Electric Heating – Used this even when equip is Unit Heater if it is electrically powered. D305006 Package Units (Includes heat pumps, evap coolers, and window AC units) D3060 Controls & Instrumentation – Some of these in MEL, but did not see any on initial Builder assessments. D306001 HVAC Controls – Including PDI’s D306002 Electronic Controls – Includes duct mounted smoke detectors D50 Electrical D5090 Other Electrical Services D509090 Other Special Systems and Devices (Use for VFD’s) |
| R | | | HVACRL | HVAC, Radiological Lab | RLUOB only D509090 Other Special Systems and Devices (Use for VFD’S) |
| R | | | HVACUB | HVAC, Central Utility Building | RLUOB only D509090 Other Special Systems and Devices (Use for VFD’S) |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|--------|--------|--------------------------|--|
| R | | | HW | Heating Water | D30 HVAC D3020 Heat Generating Systems D302001 Boilers – For boilers, feedwater, makeup, blowdown, chemical addition, etc. Safety valves will not be assessed by Builder. D302004 Auxiliary Equipment – Use for tanks, including air separators. Need BUILDER Catalog item for condensate neutralizers used on the output of gas fired condensing boilers. D3040 Distribution Systems D304003 Hot Water Distribution Systems – Use for pumps-and heat exchangers D304004 Change Over Distribution Systems – Use for water to water heat exchangers D50 Electrical D5090 Other Electrical Services D509090 Other Special Systems and Devices (Use for VFD’s) |
| R | | | LRW | Lab Reheat Water | D30 HVAC D3020 Heat Generating Systems D302004 Auxiliary Equipment – Use for tanks, heat exchangers, and air separators. D3040 Distribution Systems D304003 Hot Water Distribution Systems – Use for pumps D304004 Change Over Distribution Systems – Use for water to water heat exchangers D50 Electrical D5090 Other Electrical Services D509090 Other Special Systems and Devices (Use for VFD’s) RLUOB Only |
| R | | | NNHVAC | Ventilation, Non-Nuclear | TA55 non-nuke D509090 Other Special Systems and Devices (Use for VFD’s) |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-------|------------------|------|--|---|
| R | | | PCW | Process Chilled Water or Process Cooling Water (building dependent) | RLUOB only D30 HVAC D3040 Distribution Systems D304004 Change Over Distribution Systems – Use for water to water heat exchangers D304006 Chilled Water Distribution Systems – Use for pumps, and tanks (expansion, chem feed, etc.) D50 Electrical D5090 Other Electrical Services D509090 Other Special Systems and Devices (Use for VFD’s) |
| R | | | PG | Primary Glycol | RLUOB only D30 HVAC D3040 Distribution Systems D304005 Glycol Distribution Systems – Use for glycol chillers, condensers, circulating pumps, expansion tanks, chem feed, etc. |
| R | | | SCW | Secondary Chilled Water | RLUOB only D304006 Chilled Water Distribution Systems – Use for pumps and tanks (expansion, chem feed, etc.) |
| R | | | SHW | Secondary Heating Water | RLUOB only D304003 Hot Water Distribution Systems – Use for pumps |
| R | | | TW | Tower Water | D30 HVAC D3020 Heat Generating Systems D302005 Equipment Thermal Insulation D302090 Other Heat Generating Systems - Use this for heat trace and tank heaters D3030 Cooling Generating Systems D303001 Chilled Water Systems – Use for towers, fans, pumps, air separators, and chem add. |
| | WASTE | Waste Management | | | Not in Builder |
| P | | | RADW | Radioactive and Mixed Solid Waste Processing | For tools and equipment that deal with solid radioactive waste. The tools and equipment themselves are not waste. |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|--------|---------------------|--------|---------------------------------------|-------------------------------|
| | WELD | Welding | | | Not in Builder |
| P | | | 1219W | 1219 Welder | |
| P | | | 267W | 267 Welder | |
| P | | | 295W | 295 Welder | |
| P | | | 297W | 297 Welder | |
| P | | | 3013W | 3013 Welder | |
| P | | | EBEAM | Electron Beam | |
| P | | | GTA | Gas Tungsten Arc Welding Operation | |
| P | | | HVEBW | High Voltage EBEAM Welder | |
| P | | | IPGW | IPG Welder | |
| P | | | HSCG | HS Calibration Gas System | |
| P | | | LSRWLD | Laser, Weld | |
| P | | | LVEBW | Low Voltage Electron Beam Welder | |
| P | | | MOXW | MOX Welder | |
| P | | | PIGMA | PIGMA Welder | |
| P | | | YBLAZR | YB Laser Welder | |
| | WGCHAR | WG Characterization | | | Not in Builder |
| P | | | ACHAR | Analytical Chemistry Characterization | |
| P | | | OXPRO | Oxide Processing | |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|--------------|-------|------------------------|--|
| | WS | Water Supply | | | D20 Plumbing Regardless of system, safety and relief valves will not be assessed by Builder. |
| R | | | DEMIN | Demineralized Water | D2090 Other Plumbing Systems D209090 Other Special Plumbing Systems D50 Electrical D5090 Other Electrical Services D509090 Other Special Systems and Devices (Use for VFD's) |
| R | | | DIS | Distilled Water | D209090 Other Special Plumbing Systems |
| R | | | DIW | Deionized Water | D209090 Other Special Plumbing Systems |
| R | | | IW | Industrial Water | D209090 Other Special Plumbing Systems |
| R | | | IWH | Industrial Water Hot | 550005 Only D209090 Other Special Plumbing Systems |
| R | | | MKUP | Makeup Water | D209090 Other Special Plumbing Systems |
| R | | | NPW | Non-Potable Water | D209090 Other Special Plumbing Systems |
| R | | | NPWC | Non-Potable Water Cold | D209090 Other Special Plumbing Systems |
| R | | | NPWH | Non-Potable Water Hot | D209090 Other Special Plumbing Systems |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|-----|--------|-----|---------------------|---|
| R | | | PW | Potable Water | D20 Plumbing D2010 Plumbing Fixtures D201001 Waterclosets D201002 Urinals D201003 Lavatories D201004 Sinks D201005 Showers/Tubs D201006 Drinking Fountains and Coolers D201007 Bidets D201090 Other Plumbing Fixtures - includes Emergency Eye Wash & Shower D2020 Domestic Water Distribution D202001 Pipes & Fittings D202002 Valves & Hydrants - includes BFP's and hose bibs D202003 Domestic Water Equipment (includes storage tanks, booster pumps & motors, water heaters, and water treatment equipment) (Use this when applicable to an entire building) Some buildings use PWH for hot potable water. Check tags and drawings. D30 HVAC D3010 Energy Supply D301005 Solar Energy Systems (use for solar hot water heating) D50 Electrical D5090 Other Electrical Services D509090 Other Special Systems and Devices (Use for VFD's) |
| R | | | PWH | Potable Water Hot | D202003 Domestic Water Equipment (includes storage tanks, booster pumps & motors, water heaters, and water treatment equipment) Some buildings use PW even for hot potable water. Check tags and drawings. |
| R | | | RO | Reverse Osmosis | D209090 Other Special Plumbing Systems |
| R | | | PWT | Potable Water Tepid | D202002 Valves & Hydrants - includes BFP's and hose bibs D202003 Domestic Water Equipment (includes storage tanks, booster pumps & motors, water heaters, and water treatment equipment) Use this for eye wash water heaters. |

| G | OSI | Op Sys | SI | Sys | Builder Code, Notes, and Misc |
|---|--------|-------------|-------|--------------------|--|
| | WSTWTR | Waste Water | | | |
| R | | | EFLD | Effluent Discharge | D20 Plumbing D2090 Other Plumbing Systems D209090 Other Special Plumbing Systems Not storm water, not sanitary, suitable for discharge to environment. Example, cooling tower blowdown and sewage plant effluent. |
| R | | | LCONT | Liquid Containment | TWF Only This is for the pavement around buildings that ensures any liquid spill drains to the retention basin. |
| R | | | STW | Stormwater | D2040 Rain Water Drainage D204001 Pipe & Fittings D204002 Roof Drains D204003 Rainwater Drainage Equipment D204004 Insulation & Identification D204090 Other Rain Water Drainage System For individual buildings. Once Stormwater leaves building jurisdiction it comes under Utilities' Roads and Grounds. See RNG/STW. |
| R | | | SWP | Sanitary Sewer | D2030 Sanitary Waste D203001 Waste Pipe & Fittings D203002 Vent Pipe & Fittings D203003 Floor Drains D203004 Sanitary and Vent Equipment D203005 Insulation & Identification D203090 Other Sanitary Waste – Use for sumps and pumps D2090 Other Plumbing Systems D209003 Interceptors e.g. oil separators |

Added System HGAS, TRU Waste Headspace Gas Analysis System, under Op Sys CGS.

Added System EVIN, Evacuation and Inerting, under Op Sys CONT. Includes clarification "RANT System for Leak Testing, Evacuating, and Inerting waste containers before shipping."

Clarified that CGS/CG "Includes many different types of certified gases used to "calibrate" respective detectors/alalyzers/etc."

Added for Tritium Facility:

| | | | |
|------|--------------------------------|------|--------------------------------|
| FGA | Facility Gases and Air | | |
| | | AR | Argon Gas |
| | | BA | Breathing Air |
| | | CA | Compressed Air |
| | | H2 | Hydrogen Gas |
| | | HE | Helium Gas |
| | | LN2 | Liquid Nitrogen (cryogenic) |
| | | N2 | Nitrogen Gas |
| | | O2 | Oxygen Gas |
| TGHS | Tritium Gas Handling System | | |
| | | TGHS | Tritium Gas Handling System |
| TWTS | Tritium Waste Treatment System | | |
| | | TWTS | Tritium Waste Treatment System |

Added HMP/CO, Carbon Monoxide Detectors

Added IPFCOL, IPF Process Cooling, as Op Sys for 530984, and moved the following from Op Sys to Sys fields:

- INTCOL, Intermediate Cooling
- MAGCOL, Magnet Cooling
- TGTCOL, Target Cooling

Note: The IPF Process systems were not in any previous 210 list.

Added

COOLW/PPCCWR, Positive Pressure Circulating Chilled Water Return and

COOLW/PPCCWS, Positive Pressure Circulating Chilled Water Supply.

COOLW/PPCCW, Positive Pressure Circulating Chilled Water, will remain on 210 list until MEL records with this system have been changed to with the supply or return.