

# MASTERSPEC®

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### DIVISION 1 - GENERAL REQUIREMENTS

11/07	01000	GENERAL REQUIREMENTS	Evaluations: Role of Division 1 Sections, their preparation and coordination.
11/07	01100	SUMMARY	Summary of the Work, phased construction, purchase contracts, Owner-furnished products, access to site, and work restrictions.
11/07	01125	SUMMARY OF MULTIPLE CONTRACTS	Responsibilities of each contract for the Work, coordination, and temporary facilities and controls.
11/07	01210	ALLOWANCES	Provisions for cash allowances including lump-sum, unit cost, contingency, and testing and inspecting allowances.
11/07	01230	ALTERNATES	Provisions for change-of-scope and cost-comparison type alternates.
11/07	01250	CONTRACT MODIFICATION PROCEDURES	Procedural requirements for changes to the Contract.
11/07	01270	UNIT PRICES	Provisions for unit prices.
11/07	01290	PAYMENT PROCEDURES	Administrative requirements for Contractor's Applications for Payment.
11/07	01310	PROJECT MANAGEMENT AND COORDINATION	Administrative requirements for project meetings; preconstruction, preinstallation, and project closeout conferences; RFIs; and project Web sites.
11/07	01320	CONSTRUCTION PROGRESS DOCUMENTATION	Contractor's Construction Schedule including Gantt charts and CPM schedules; Contractor's reports.
2/08	01322	PHOTOGRAPHIC DOCUMENTATION	Construction photographs, video recordings, and web-based photographic documentation.
11/07	01330	SUBMITTAL PROCEDURES	Procedures for Action and Informational Submittals including Delegated-Design Submittals and Submittals Schedule.
11/07	01351	SPECIAL PROCEDURES FOR HISTORIC TREATMENT	General protection and treatment of historic spaces; historic removal and dismantling; and bird-excrement removal.
5/06	01352	LEED REQUIREMENTS	General requirements and procedures for LEED prerequisites and credits.
11/07	01400	QUALITY REQUIREMENTS	Quality-assurance and -control requirements, special tests and inspections, and Contractor's quality-control plan.
U 11/08	01420	REFERENCES	Common definitions and terms; and acronyms and trade names of associations, government agencies, and other entities referenced in MASTERSPEC.
11/07	01500	TEMPORARY FACILITIES AND CONTROLS	Temporary utilities and facilities for construction support, security, and protection.
2/08	01524	CONSTRUCTION WASTE MANAGEMENT	Salvaging, recycling, and disposing of non-hazardous demolition and construction waste.
11/07	01600	PRODUCT REQUIREMENTS	Administrative and procedural requirements for product, material, and equipment selection and handling; warranties; and comparable products.
11/07	01635	SUBSTITUTION PROCEDURES	Procedural requirements for requests for substitutions during construction.
11/07	01700	EXECUTION REQUIREMENTS	General requirements for product installation, cutting and patching, protection, field engineering, and progress cleaning.
U 11/08	01732	SELECTIVE DEMOLITION	Demolition and removal of selected portions of buildings and site elements.
11/07	01770	CLOSEOUT PROCEDURES	Contract closeout including Substantial Completion and Final Completion procedures, warranties, and final cleaning.
2/08	01781	PROJECT RECORD DOCUMENTS	Record record Drawings, Specifications, and Product Data.

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	2/08 01782	OPERATION AND MAINTENANCE DATA	Emergency, operation, and maintenance manuals for products and equipment.
	12/05 01810	GENERAL COMMISSIONING REQUIREMENTS	Administrative requirements and procedures for commissioning all systems.
	6/06 01815	COMMISSIONING OF HVAC	Administrative requirements and procedures for commissioning HVAC systems.
	2/08 01820	DEMONSTRATION AND TRAINING	Administrative and procedural requirements for instructing Owner's personnel in operation and maintenance.
<b>DIVISION 2 - SITE CONSTRUCTION</b>			
	6/04 02080	PIPED UTILITIES - BASIC MATERIALS AND METHODS	Basic piping materials and methods.
	8/08 02221	BUILDING DEMOLITION	Complete structure removal.
	5/07 02230	SITE CLEARING	Clearing, grubbing, vegetation protection, topsoil stripping, and disconnecting utilities.
	8/05 02240	DEWATERING	Construction dewatering and groundwater controls.
	5/07 02300	EARTHWORK	Excavating, filling and backfilling, compaction, and grading.
U	12/08 02510	WATER DISTRIBUTION	Utility service, domestic, and fire-protection water piping, specialties, and valves.
	6/06 02515	FACILITY FIRE-SUPPRESSION WATER-SERVICE PIPING	Fire suppression piping and specialties outside the building.
	6/07 02530	SANITARY SEWERAGE	Sanitary sewerage and underground structures outside the building.
	3/03 02552	GROUND-LOOP, HEAT-PUMP PIPING	Horizontal and vertical, direct-buried, ground-loop piping.
	6/08 02620	SUBDRAINAGE	Drainage for foundations, underslabs, plaza decks, retaining walls, and landscaped areas.
	6/07 02630	STORM DRAINAGE	Gravity and forced storm piping, underground structures, and specialties.
	8/05 02741	ASPHALT PAVING	Paving, overlays, and surface treatments.
	8/07 02751	CEMENT CONCRETE PAVEMENT	Concrete paving for site construction applications.
	12/05 02810	IRRIGATION SYSTEMS	Heads, pipes, and controls.
	8/07 02821	CHAIN-LINK FENCES AND GATES	Standard chain-link fencing systems.
<b>DIVISION 3 - CONCRETE</b>			
	5/08 03300	CAST-IN-PLACE CONCRETE	General building and structural applications; concrete mixtures, formwork, reinforcing, finishing, and curing.
	8/07 03301	MISCELLANEOUS CAST-IN-PLACE CONCRETE	Cast-in-place concrete for limited applications.
<b>DIVISION 5 - METALS</b>			
	5/07 05500	METAL FABRICATIONS	Metal items (not sheet metal) made from iron and steel shapes, stainless steel, and non-ferrous metals.
<b>DIVISION 6 - WOOD AND PLASTICS</b>			
U	11/08 06100	ROUGH CARPENTRY	Wood framing, furring, grounds, nailers, and blocking.
<b>DIVISION 7 - THERMAL AND MOISTURE PROTECTION</b>			
	11/05 07620	SHEET METAL FLASHING AND TRIM	Custom-fabricated roof and wall flashings and roof-drainage systems, and manufactured through-wall flashing and reglets.
	2/08 07720	ROOF ACCESSORIES	Roof curbs, equipment supports, roof hatches, heat and smoke vents, gravity ventilators, pipe supports, roof walkways and stairs, and preformed flashing sleeves.
	11/07 07841	THROUGH-PENETRATION FIRESTOP SYSTEMS	Systems installed in fire-resistance-rated walls, horizontal assemblies, and smoke barriers.

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11/06 07920 JOINT SEALANTS

Elastomeric, latex, solvent-release-curing, preformed, and acoustical sealants.

### DIVISION 8 - DOORS AND WINDOWS

2/04 08311 ACCESS DOORS AND FRAMES

Wall, ceiling, and floor units.

### DIVISION 9 - FINISHES

2/04 09910 PAINTING

Evaluations for Sections 09911 and 09912.

2/04 09911 EXTERIOR PAINTING

Exterior painting.

2/04 09912 INTERIOR PAINTING

Interior painting.

11/03 09960 HIGH-PERFORMANCE COATINGS

Specialty coatings for use on exterior and interior substrates.

### DIVISION 10 - SPECIALTIES

8/05 10200 LOUVERS AND VENTS

Fixed and adjustable louvers; wall vents.

5/05 10520 FIRE PROTECTION SPECIALTIES

Evaluations for Sections 10522 and 10523.

5/05 10522 FIRE EXTINGUISHER CABINETS

Fire-protection cabinets and security fire-protection cabinets.

5/05 10523 FIRE EXTINGUISHERS

Portable and wheeled fire extinguishers.

### DIVISION 13 - SPECIAL CONSTRUCTION

9/06 13921 ELECTRIC-DRIVE, CENTRIFUGAL FIRE PUMPS

End-suction, in-line, and split-case fire pumps; accessories, specialties, and flowmeter systems.

9/06 13922 DIESEL-DRIVE, CENTRIFUGAL FIRE PUMPS

End-suction, in-line, and split-case fire pumps; accessories, specialties, and flowmeter systems.

9/06 13926 ELECTRIC-DRIVE, VERTICAL-TURBINE FIRE PUMPS

Fire pumps, accessories, specialties, and flowmeter systems.

9/06 13927 DIESEL-DRIVE, VERTICAL-TURBINE FIRE PUMPS

Fire pumps, accessories, specialties, and flowmeter systems.

9/06 13928 PRESSURE-MAINTENANCE PUMPS

Multistage, regenerative turbine, submersible, and vertical-turbine pumps; pump controllers.

12/06 13929 CONTROLLERS FOR FIRE-PUMP DRIVERS

Full- and limited-service, electric-driver controllers; and deisel-driver controllers

6/06 13930 WET-PIPE FIRE-SUPPRESSION SPRINKLERS

Piping, specialties, valves, and sprinklers for wet-pipe sprinkler systems.

6/06 13935 DRY-PIPE FIRE-SUPPRESSION SPRINKLERS

Piping, specialties, valves, and sprinklers for dry-pipe and preaction sprinkler systems.

6/06 13974 FIRE-SUPPRESSION STANDPIPES

Piping, specialties, valves, hose valves, and hose stations.

### DIVISION 15 - MECHANICAL

6/05 15056 COMMON MOTOR REQUIREMENTS FOR FIRE SUPPRESSION EQUIPMENT

Universal default values for small and medium, ac motors.

6/05 15057 COMMON MOTOR REQUIREMENTS FOR PLUMBING EQUIPMENT

Universal default values for small and medium, ac motors.

6/05 15058 COMMON MOTOR REQUIREMENTS FOR HVAC EQUIPMENT

Universal default values for small and medium, ac motors.

9/07 15061 HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT

Single and multiple hangers, framing systems, and stands and supports.

9/07 15062 HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT

Single and multiple hangers, framing systems, and stands and supports.

12/04 15072 VIBRATION AND SEISMIC CONTROLS FOR FIRE-SUPPRESSION PIPING AND EQUIPMENT

Vibration isolation devices and seismic restraints.

12/04 15073 VIBRATION AND SEISMIC CONTROLS FOR PLUMBING PIPING AND EQUIPMENT

Vibration isolation devices and seismic restraints.

12/04 15074 VIBRATION AND SEISMIC CONTROLS FOR HVAC PIPING AND EQUIPMENT

Vibration isolation devices and seismic restraints.

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6/05	15076	IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT	Labels, stencils, and tags.
6/05	15077	IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT	Labels, stencils, and tags.
9/08	15081	FIRE-SUPPRESSION SYSTEMS INSULATION	Equipment and pipe insulation.
9/08	15084	PLUMBING EQUIPMENT INSULATION	Insulation materials, jackets, and installation accessories for plumbing equipment.
9/08	15085	PLUMBING PIPING INSULATION	Insulation materials, jackets, and installation accessories for plumbing piping.
9/08	15086	DUCT INSULATION	Insulation materials, jackets, and installation accessories for HVAC ducts.
9/08	15087	HVAC EQUIPMENT INSULATION	Insulation materials, jackets, and installation accessories for HVAC equipment.
9/08	15088	HVAC PIPING INSULATION	Insulation materials, jackets, and installation accessories for HVAC piping.
3/08	15091	SLEEVES AND SLEEVE SEALS FOR FIRE-SUPPRESSION PIPING	Sleeves and sleeve seals for piping at floor and wall penetrations.
3/08	15092	SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING	Sleeves and sleeve seals for piping at floor and wall penetrations.
3/08	15093	SLEEVES AND SLEEVE SEALS FOR HVAC PIPING	Sleeves and sleeve seals for piping at floor and wall penetrations.
3/08	15096	ESCUTCHEONS FOR FIRE-SUPPRESSION PIPING	Escutcheons and floor plates for piping at ceiling, floor, and wall penetrations.
3/08	15097	ESCUTCHEONS FOR PLUMBING PIPING	Escutcheons and floor plates for piping at ceiling, floor, and wall penetrations.
3/08	15098	ESCUTCHEONS FOR HVAC PIPING	Escutcheons and floor plates for piping at ceiling, floor, and wall penetrations.
9/05	15111	GENERAL-DUTY VALVES FOR PLUMBING PIPING	Gate, globe, check, butterfly, & ball valves common to multiple systems.
9/05	15112	GENERAL-DUTY VALVES FOR HVAC PIPING	Gate, globe, check, butterfly, & ball valves common to multiple systems.
12/06	15123	EXPANSION FITTINGS AND LOOPS FOR PLUMBING PIPING	Expansion joints and loops.
12/06	15124	EXPANSION FITTINGS AND LOOPS FOR HVAC PIPING	Expansion joints and loops.
12/06	15126	METERS AND GAGES FOR PLUMBING PIPING	Temperature, pressure, and flow.
12/06	15127	METERS AND GAGES FOR HVAC PIPING	Temperature, pressure, and flow.
U 12/08	15140	DOMESTIC WATER PIPING	Potable-water distribution within the building.
12/03	15145	DOMESTIC WATER PIPING SPECIALTIES	Specialties, valves, and fittings for domestic water piping.
U 12/08	15150	SANITARY WASTE AND VENT PIPING	Soil, waste, and vent piping within the building.
6/05	15155	SANITARY WASTE PIPING SPECIALTIES	Floor, trench, and channel drains; interceptors; and piping specialties.
6/08	15160	STORM DRAINAGE PIPING	Stormwater piping within the building.
6/07	15165	STORM DRAINAGE PIPING SPECIALTIES	Roof drains, cleanouts, trench drains, channel drains, and piping specialties.
U 12/08	15181	HYDRONIC PIPING	Hot-, chilled-, and condenser-water piping.
U 12/08	15182	STEAM AND CONDENSATE PIPING	LP and HP piping and specialties.
6/04	15183	REFRIGERANT PIPING	Piping, specialties, and refrigerant.
6/02	15185	HYDRONIC PUMPS	Base mounted and inline; close coupled and separately coupled.
6/02	15186	STEAM CONDENSATE PUMPS	Electric-driven and pressure-powered; single and duplex pumps with receivers.
3/04	15189	HVAC WATER TREATMENT	Steam boiler feedwater and hot-, chilled-, and condenser-water treatment.
3/05	15192	FACILITY FUEL-OIL PIPING	Transfer and storage equipment and piping.

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U 12/08	15195	FACILITY NATURAL-GAS PIPING	Natural gas piping and specialties.
U 12/08	15196	FACILITY LIQUEFIED-PETROLEUM GAS PIPING	LP gas piping, specialties, and storage equipment.
U 12/08	15211	GENERAL-SERVICE COMPRESSED-AIR PIPING	Nonmedical piping, equipment, and accessories.
3/05	15251	GENERAL-SERVICE PACKAGED AIR COMPRESSORS AND RECEIVERS	Nonmedical air compressors, filters, and dryers.
9/03	15410	PLUMBING FIXTURES	Fixtures, carriers, faucets, and trim.
9/03	15411	MEDICAL PLUMBING FIXTURES	Plumbing fixtures for healthcare facilities.
9/08	15412	EMERGENCY PLUMBING FIXTURES	Individual and combination emergency eyewash and shower units.
9/03	15415	DRINKING FOUNTAINS AND WATER COOLERS	Electric water coolers and vitreous-china fountains.
3/07	15441	DOMESTIC WATER PUMPS	In-line separately coupled, close-coupled, centrifugal pumps.
3/07	15445	SEWAGE PUMPS	Effluent pumps; automatic, packaged; basins and covers.
3/07	15446	SUMP PUMPS	Submersible, wet-pit volute, and package drainage-pump units; basins and covers.
12/07	15450	POTABLE-WATER STORAGE TANKS	Water storage; compression and diaphragm.
12/07	15469	WATER SOFTENERS	Domestic and general use, not treatment.
9/08	15471	WATER FILTRATION EQUIPMENT	Separators; and bag, cartridge, carbon, sand, and greensand filters.
3/08	15485	ELECTRIC WATER HEATERS	Household and commercial; tankless, instantaneous, and storage types.
3/08	15486	FUEL-FIRED WATER HEATERS	Household and commercial; gas and oil fired; instantaneous and storage types.
3/04	15510	HEATING BOILERS AND ACCESSORIES	Evaluations for Sections 15512, 15513, 15515, 15518, and 15519.
3/04	15512	CAST-IRON BOILERS	HW and steam; gas and oil fired.
3/04	15513	CONDENSING BOILERS	Packaged condensing boilers for small applications.
6/05	15515	WATER-TUBE BOILERS	HW and steam; gas and oil fired.
3/04	15518	FIRE-TUBE BOILERS	HW and steam; gas and oil fired.
3/04	15519	ELECTRIC BOILERS	HW and steam; HP and LP.
6/04	15520	FEEDWATER EQUIPMENT	Condensate and vacuum pumps and receivers.
12/04	15530	FURNACES	Gas-, electric-, and oil-fired furnaces.
6/04	15541	GAS-FIRED DUCT HEATERS	Gas- and oil-fired units.
6/04	15542	GAS-FIRED RADIANT HEATERS	Natural and LP gas units.
6/04	15543	FUEL-FIRED UNIT HEATERS	Gas- and oil-fired units.
9/04	15550	BREECHINGS, CHIMNEYS, AND STACKS	Double-wall and refractory-lined breechings and stacks; fabricated breechings.
9/04	15555	DRAFT CONTROL DEVICES	Induced-draft fans and barometric dampers.
12/01	15561	DIRECT-FIRED H&V UNITS	Gas-fired indoor and outdoor units.
12/01	15562	INDIRECT-FIRED H&V UNITS	Gas- and oil-fired indoor and outdoor units.
6/06	15621	INDIRECT-FIRED ABSORPTION WATER CHILLERS	Steam and hot-water generated; one and two stage.
3/07	15622	DIRECT-FIRED ABSORPTION WATER CHILLERS	Natural-gas, propane, and oil fired; water cooled; two stages; and a brush-cleaning system.
6/06	15625	CENTRIFUGAL WATER CHILLERS	Hermetic and open; direct and gear drives; water and air cooled.
6/06	15626	ROTARY-SCREW WATER CHILLERS	Water-cooled, single- and multiple-compressor units; air-cooled indoor and outdoor units.
3/05	15627	RECIPROCATING WATER CHILLERS	Water and air cooled.
3/05	15629	SCROLL WATER CHILLERS	Water and air cooled.
9/04	15635	REFRIGERANT DETECTION AND ALARM	Monitors, alarms, breathing apparatus, and ventilation equipment interlocks.

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	6/05	15640	COOLING TOWERS	Factory-assembled, open- and closed-circuit, induced- and forced-draft, cross- and counter-flow towers.
	9/06	15663	EVAPORATIVE CONDENSERS	Induced- and forced-draft evaporative refrigerant condensers.
	9/08	15671	PACKAGED COMPRESSOR AND CONDENSER UNITS	Air and water cooled.
	9/08	15672	AIR-COOLED REFRIGERANT CONDENSERS	Remote forced-air, condenser, and fan units.
	3/03	15710	HYDRONIC AND STEAM HEAT EXCHANGERS	Steam to water and water to water; shell-and-tube and flat-plate types.
	6/06	15725	MODULAR INDOOR CENTRAL-STATION AIR-HANDLING UNITS	Units consisting of fans, coils, dampers, filters, control devices, and accessories.
	6/06	15731	PACKAGED TERMINAL AIR CONDITIONERS	Freestanding or through-the-wall; cooling only; heat pump; cooling plus hot-water heating, electric heating, and gas-fired heating.
	12/04	15732	PACKAGED, OUTDOOR, CENTRAL-STATION AIR-HANDLING UNITS	Packaged, rooftop HVAC.
U	12/08	15733	DEDICATED OUTDOOR-AIR UNITS	Units capable of 100 percent outdoor air with heating and cooling.
	6/06	15734	COMPUTER-ROOM AIR-CONDITIONERS	Floor- and ceiling-mounted console; water and air cooled; electric, hot-water, and steam heat.
	6/08	15735	SELF-CONTAINED AIR-CONDITIONERS	Packaged cooling, heating, filters, and controls; cabinet suitable for exposed installations.
	3/08	15738	SPLIT-SYSTEM AIR-CONDITIONING UNITS	Air-distribution equipment separate from refrigeration equipment; cabinet suitable for exposed installations.
	3/03	15745	WATER-SOURCE HEAT PUMPS	Concealed horizontal and vertical units; vertical-stack, rooftop, exposed-console units; and unit ventilators.
	12/03	15761	AIR COILS	Water, steam, refrigerant, and electric heat-transfer coils.
	6/05	15762	UNIT HEATERS	Cabinet and propeller unit heaters, and wall and ceiling heaters.
	6/03	15763	FAN-COIL UNITS	Hot water, steam, and electric heating; chilled or DX cooling.
	9/03	15764	CONVECTION HEATING UNITS	Hot water, steam, and electric baseboard and finned-tube radiators and convectors.
	6/03	15768	UNIT VENTILATORS	Hot water, steam, and electric heating; chilled or DX cooling.
	9/03	15769	RADIANT HEATING AND COOLING UNITS	Electric and hot water radiant heaters and heating and cooling panels.
	6/04	15772	RADIANT HEATING PIPING	Embedded pipe and fittings.
	6/05	15774	RADIANT-HEATING ELECTRIC CABLES	Electric cables for ceilings and floors, snow and ice melting, and freezer-floor frost prevention.
	6/05	15776	RADIANT-HEATING ELECTRIC PANELS	Factory-fabricated panels.
	6/05	15777	HEAT TRACING FOR FIRE-SUPPRESSION PIPING	Electric cables for freeze protection.
	6/05	15778	HEAT TRACING FOR PLUMBING PIPING	Electric cables for freeze protection and temperature maintenance.
	6/05	15779	HEAT TRACING FOR HVAC PIPING	Electric cables for freeze protection.
U	12/08	15815	METAL DUCTS	Rectangular and round, single- and double-wall ducts, including hangers and supports.
U	12/08	15816	NONMETAL DUCTS	Fibrous-glass, PVC, and FRP ducts, hangers, and supports.
U	12/08	15817	HVAC CASINGS	Factory and field fabricated; single and double wall.
U	12/08	15820	DUCT ACCESSORIES	Volume dampers, fire and smoke dampers, vanes, duct silencers, and hardware.
	6/08	15834	AIR CURTAINS	Fans over entrances with and without heating.
U	12/08	15836	AXIAL FANS	Tubeaxial and vaneaxial fans.

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U	12/08	15837	CENTRIFUGAL FANS	BI & FC indoor type; tubular and in-line units.
	6/08	15838	POWER VENTILATORS	Roof, wall, and ceiling-mounting ventilators.
	9/06	15840	AIR TERMINAL UNITS	Single-duct, dual-duct, fan-powered, induction, and diffuser types.
	3/06	15855	DIFFUSERS, REGISTERS, AND GRILLES	Round, rectangular, perforated, and linear diffusers; fixed and adjustable registers and grilles.
	6/07	15856	INTAKE AND RELIEF VENTILATORS	Unpowered ventilators and louver penthouses.
	12/06	15861	PARTICULATE AIR FILTRATION	Disposable, extended surface, and roll types.
	3/07	15862	GAS-PHASE AIR FILTRATION	Gas adsorbent and rechargeable media, trays and housings, frames, and filter gages.
	3/07	15863	ELECTRONIC AIR CLEANERS	Electronic air cleaners, access housings, service frames, and filter gages.
	9/04	15870	COMMERCIAL KITCHEN HOODS	Type I and Type II, Standard and Listed hoods.
	6/03	15900	HVAC INSTRUMENTATION AND CONTROLS	Electric, electronic, pneumatic, and DDC equipment and devices.
	6/03	15940	SEQUENCE OF OPERATION	Control sequences for HVAC systems.
	9/06	15950	TESTING, ADJUSTING, AND BALANCING	Air distribution and hydronic systems.

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