QA/QC Checklist





Construction Services

DIVISION 01 – General Requirements 01 33 23 – Special Submittal Procedures	General Information	Programming/ Design	Bidding/ Preconstruction	Installation/ Construction	Closeout/ Warranty			
01 General								
1. Engineering Services (ES) has requested that certain submittals (shop drawings, product data, tests, etc) from the Contractor to the design Professional should be "flagged" for ES to conduct an additional review. These submittals generally include equipment items that have historically been problematic in the past due to misinterpretation of PSU Design Standards, improper sizing, critical equipment, etc., and are listed in the sections below.	\boxtimes							
2. Construction Services (CS) shall inform the Contractor that an electronic submittal or, two (2) ADDITIONAL hard copies of the submittal items identified in the following sections should be given to PSU when the Contractor sends (or uploads) submittals to the Professional for their review/approval.	\boxtimes							
3. Review of these items DOES NOT take the place of the formal, contractual submittal review process between the Contractor and the Professional.	\boxtimes							
4. ES will review these items concurrently with the Professional.	\boxtimes							
5. ES will return any comments/notes regarding the submittal item in a timely manner to CS. CS will send the comments/notes to the Professional for inclusion in their review of the submittal item.	\boxtimes							
02 Plumbing								
 Send submittals to the Facility Mechanical Engineer for the appropriate PSU Area where the project is located. Refer to the Area of Responsibility directory at the end of this document. 			\boxtimes					
2. Water meters (unless supplied by OPP Utility Services)			\boxtimes					
3. Oil/water separators or oil interceptors			\boxtimes					
4. Instantaneous water heaters			\boxtimes					
5. Large, packaged specialty plumbing systems (vacuum pumps, laboratory gases, air compressors, etc)			\boxtimes					
6. Large, packaged water treatment systems (water softeners, DI systems, etc)			\boxtimes					
7. Fire/jockey pumps			\boxtimes					
03 HVAC		l .			l .			
1. Send submittals to the Facility Mechanical Engineer for the appropriate PSU Area where the project is located. Refer to the Area of Responsibility directory at the end of this document.			\boxtimes					
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2. Chillers		\boxtimes		
3. Cooling towers		\boxtimes		
4. Chilled water meters (unless supplied by OPP Utility Services)		\boxtimes		
5. Steam meters (unless supplied by OPP Utility Services)		\boxtimes		
6. Boilers		\boxtimes		
7. Air handling units (not fan coils or VAV boxes) or rooftop units		\boxtimes		
8. Primary heating/cooling pumps		\boxtimes		
9. Primary/central HVAC fans, special duty fans (laboratory/fume hood exhaust, kitchen exhaust, etc.), and controls		\boxtimes		
04 Electrical Distribution				
1. Send submittals to Cyle Vogt (cdv5002@psu.edu; (717-994-7903), Electrial Engineer		\boxtimes		
2. Main service electrical switchgear		\boxtimes		
3. Transformers (unless supplied by OPP Utility Services)		\boxtimes		
4. Electrical meters (unless supplied by OPP Utility Services)		\boxtimes		
5. Low Voltage (less than 600 volts) distribution equipment		\boxtimes		
6. Engine/Generators		\boxtimes		
7. Automatic transfer switches		\boxtimes		
8. Electrical testing reports (Electrical Acceptance Tests, System Function Tests, Thermographic Surveys, Electromagnetic Field Tests, and Voltage Drop Tests). See checklist 26 05 10 – Electrical Testing.		\boxtimes		
9. Power system engineering studies (Coordination Study, Fault-Current/Short-Circuit Study, and Arc Flash Hazard Analysis). See checklist 26 05 73 – Engineering Power Studies.		\boxtimes		
05 Lighting				
 Send submittals to Jon Walker (<u>Jcw5009@psu.edu</u>; OPP Electrical Engineer. 		\boxtimes		
2. Interior and exterior lighting		\boxtimes		
3. Lighting controls		\boxtimes		
06 Controls/Building Automation Systems (BAS)				
 Send submittals to Jon Kay (jpk189@psu.edu; OPP DDC Specialist. 		\boxtimes		
2. Controls components and devices		\boxtimes		
3. Sequence of Operation for all systems		\boxtimes		
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Facility Mechanical Engineer Areas of Responsibility

University Park

Click on the link below to determine the appropriate PSU Area for your project: Area Services Map

Area 1Harry Gebhardt139H Physical Plant Building, hwg101@psu.edu, 814-865-1048Area 2Don Partsch139E Physical Plant Building, DFP2@psu.edu, 814-863-9488Area 3Pete Clarke139 Physical Plant Building, pvc5004@psu.edu, 814-863-8741Area 4Bill Rittelmann139F Physical Plant Building, wdr11@psu.edu, 814-865-2823Area 5Steve Garbini139C Physical Plant Building, SPG15@psu.edu, 814-867-5530

Area 6 Ray Alexander W-005D Millennium Science Complex, rha12@psu.edu, 814-863-0435

Commonwealth Services

Eastern Region

Pete Clarke: Hazleton, Lehigh Valley, Schuylkill, Worthington-Scranton, Wilkes-Barre

Steve Garbini: Abington, Berks, Brandywine, Great Valley, Philadelphia EEB Hub (Navy Yards)

Central Region

Ray Alexander: Altoona, Hershey Medical Center, Mont Alto, SEAREC (Manheim)

Don Partsch: Dickinson, Fruit Research Center (Biglerville), Harrisburg, Penn College, Shaver's Creek, Stone

Valley/Forestry, York

Western Region

Harry Gebhardt: Behrend (Erie), Dubois, Erie Co. Field Research Lab, Erie Forestry, New Kensington

Bill Rittelmann: Beaver, Fayette, Greater Allegheny, Shenango