

1. Exhibit I, Subcontractor Submittal Requirements, is the pro forma (boilerplate-like) document for communicating the requirements for submittal transmittal to LANL and any required follow-up action following LANL review in construction subcontracts.
2. Exhibit I supersedes what was traditionally in LANL Master Specification Section [01 3300](#), Submittal Procedures and elsewhere in the pro forma.
3. Exhibit I's Attachment B, Subcontractor Submittal Requirements Summary, lists requirements from the spec sections and elsewhere.
4. The Exhibit I Att B template must be completed by the project. After Exhibits D, F, G and H have been finalized, the AE must tailor and provide technical-specs-related input for the "Exhibit D Technical Specifications for Engineering Services" part of Att B. That shall be done by completing this template. In order to tailor and complete this input template:
 - Items (rows) not applicable to a particular project or acquisition shall be deleted.
 - For applicable items, the submittal type must be designated.
 - Additional rows added for spec sections created by the AE. If added, applicable information must be provided in each column.
 - Template entries validated.
 - Sequential numbering of submittals finalized.

NOTE: This template may not be 100% complete or accurate, and will be improved over time if users provide feedback to the ESM Chapter 1 POC.

5. For design-build projects only, completion of Attachment B for engineering and quality submittals is design-dependent and therefore the responsibility of the SUBCONTRACTOR'S Architect/Engineer. SUBCONTRACTOR shall complete those portions of Attachment B at the preliminary design stage (e.g. 60%) and submit for LANS review. SUBCONTRACTOR will submit the revised Attachment B at final design stage (90%) for LANS review. The reviewed Attachment B will be incorporated into Exhibit I and re-issued as a no-cost Change Order.

This template is available in Word online at <http://engstandards.lanl.gov/specs.shtml>

SUBMITTAL SCHEDULE							
A	Per Subcontract Schedule	S	Prior to Shipment	Z	When Required	SANN	Semi Annual
B	Prior to Balance of Payment	U	Prior to Use	ANN	Annually	WKL Y	Weekly
F	Prior to Fabrication	W	Prior to Commencing Work	DA Y	Daily	WRR	Implemented at work release level on Blanket Agreements
M	Prior to Mobilization	X	Prior to Purchase	MO N	Monthly	BI- WKL Y	Every 2 weeks
N	Prior to Notice to Proceed	Y	Prior to Progress Payment for Each Specific Task	QR TLY	Quarterly		
SUBMITTAL TYPE REQUIRED							
D	Drawings	ED	Electrical Diagrams	P	Prints /photocopies	SD	Shop Drawings
EM	Electronic media	II	Installation Instructions	PD	Performance Data - Curves	SP	Spare Parts and Maintenance Materials
CA	Calculations	ML	Materials/Parts List/Design Mixes	PH	Photographs	TR	Test Reports
CD	Catalog Data	O M	Operations & Maintenance Data	RD	Project Record Documents	WA	Warranties
CT	Certifications	OT	Other	S	Sample	(2)	(*) indicates quantity
		O	Original	SC	Samples/Colors		

Submittal No./ Submittal Description	Reference	Submittal Schedule	Submittal Type	Concurrent Review?	LANS Response Needed?	LANS' Reviewer (For LANS Use Only)
Exhibit D Technical Specifications for Engineering Services						
3.051	N/A	01 1116				
3.052	Substitution requests	01 2500	Z			
	N/A	01 3545				
3.053	Qualification Data for Testing agencies	01 4000 1.4.A				
	Test and Inspection Plan: Include with overall project construction schedule or submit separate schedule within [30] days prior to commencement of the Work.	01 4000 1.4.B	#30			
	Coordination by Subcontractor	01 4000 1.4.C				
	Test and Inspection reports	01 4000 1.4.D,		P,TR		
	Licenses and Certificates, as required	01 4000 1.4.E		P, CT		
	For IBC work, each subcontractor and subtier responsible for the fabrication or erection of a main wind- or seismic-force-resisting system, designated seismic system, or a wind- or seismic-resisting component listed in the Statement of Special Inspections must submit a Statement of Responsibility per ESM Chapter 16 Section IP App H to LANL as a submittal prior to the commencement of work	01 4000 1.4.F				
	The following documents shall be submitted and approved by LANL prior to the start of welding:	01 4444 1.2.A	W	P		
	Welding/Brazing/Bronzing Procedure Specifications with the associated Procedure Qualification Records (PQRs)	01 4444 1.2.A.1	W	P		
	Welding/Brazing/Bronzing Performance Qualification Records	01 4444 1.2.A.2	W	P		
	Weld Filler Material Control Procedure	01 4444 1.2.A.3	W	P		

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Submittal No./ Submittal Description	Reference	Submittal Schedule	Submittal Type	Concurrent Review?	LANS Response Needed?	LANS' Reviewer (For LANS Use Only)
Fill Material (certified Material Test Reports)	01 4444 1.2.A.4	W	TR,CT			
Heat Treatment Procedures (where applicable)	01 4444 1.2.A.5	W	P			
Inspection Qualification Records	01 4444 1.2.A.6	W	P			
Inspection Procedures	01 4444 1.2.A.7	W	P			
N/A	01 4455					
Documentation to support NPDES Permit	01 5705 1.2.A.1	#14				
New Mexico Environment Department Notice of Intent (NMED NOI)	01 5705 1.2.A.2		OT-Phone call			
Traffic Control Plan	01 5705 1.2.A.3		P			
Project Record Documents	01 7839 1.2.A	Z	*			
Shop Drawings	02 4115 1.3.A.1	M & W	SD			
Project Record Documents	02 4115 1.3.A.2	M & W	P			
Project record documents showing actual locations of utilities	02 4119 1.2A				Y	
Inspection Plan	03 1512 1.4.A.1				N	
Quality Assurance Program	03 1512 1.4.A.2				N	
Material Test Reports	03 1512 1.4.A.3		P,TR		N	
Qualification Test Reports and Data	03 1512 1.4.A.4		P,TR		N	
Technical Documentation of the Product	03 1512 1.4.A.5		P		N	
Recommended k coefficient	03 1512 1.4.A.6		P,CA		N	
Values for the anchor pullout strength in tension	03 1512 1.4.A.7		P,CA		N	
Shipping, handling, and packaging procedures	03 1512 1.4.A.8		P		N	
Anchor marking plan	03 1512 1.4.A.9		P		N	
Qualification testing plan and schedule	03 1512 1.4.A.10		P		N	
Confirmatory testing pan and schedule	03 1512 1.4.A.11		P		N	
Critical characteristics affecting the identification and performance of the anchor being evaluated	03 1512 1.4.A.12		P			
ICC-ES evaluation report (ESR)	03 1534 1.4.A.1				Y	
Technical documentation of the product	03 1534 1.4.A.2				N	
For chemical anchors, information on adhesives	03 1534 1.4.A.3				Y	
For chemical anchors, threaded rod or deformed reinforcing bar information	03 1534 1.4.A.4				Y	
Shipping, handling, and packaging procedures	03 1534 1.4.A.5				Y	
Cleaning and coating documentation	03 1534 1.4.A.6				Y	
Quality Assurance program	03 1534 1.4.A.7				Y	
Certificates of compliance certifying the anchors meet requirements of specification.	03 1534 1.4.A.8				N	

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N/A	03 1550				N	
Concrete mix design	03 3001 1.4.B	W #30	P		Y	
Batch tickets	03 3001 1.4.C	U	*P		N	
Formwork calculations and drawings	03 3001 1.4.D	W	P,CA,D		N	
Shop drawings	03 3001 1.4.E	F	SD		Y	
Product Data	03 3001 1.4.F		P,PD		Y	
Test reports of concrete field testing	03 3001 1.4.G		P,TR			
Testing agency and personnel certifications (unless approved by LBO)	03 3001 1.4.H		P,CT			
Pre-approved concrete mix design verification	03 3001 1.4.I		P			
Test reports of aggregate correction factor determination	03 3001 1.4.J		P,TR			
CoCs for each rebar delivery	03 3001 1.4.K					
Filler material CMTRs when rebar is to be welded.	03 3001 1.4.L					
Material certifications in compliance with NMDOT and SSHBC as well as any supplemental or interim specs	03 3053 1.2.A.1		P,CT			
Design mix of each class of concrete	03 3053 1.2.A.2					
Lab test reports for design mix for concrete	03 3053 1.2.A.3		P,TR			
Test reports of concrete field testing	03 3053 1.2.A.4		P,TR			
Batch tickets	03 3053 1.2.A.5					
Shop drawings	04 2220 1.4.B		SD			
Product data	04 2220 1.4.C		P			
Manufacturer's certificate	04 2220 1.4.D		P,CT			
Certificate of compliance: Steel	05 1000 1.3.A.1.a	z	P,CT		Y	
Certificate of compliance: Bolts, nuts, and washers	05 1000 1.3.A.1.b	z	P,CT		Y	
Certificate of compliance: Quals for shop welding	05 1000 1.3.A.1.c	z	P,CT		Y	
Certificate of compliance: non-shrink grout	05 1000 1.3.A.1.d		P,CT			
Certificate of compliance: overhead, top running crane rail beam	05 1000 1.3.A.1.e		P,CT			
Certificate of compliance: Galvanizing	05 1000 1.3.A.1.f		P,CT			
Certificate of compliance: direct tension indicators	05 1000 1.3.A.1.g	z	P,CT		Y	
Certified Material Test Reports: Welding electrodes and rods	05 1000 1.3.A.2.a	z	P,TR		Y	
Certified Material Test Reports: Tension control bolt/nut/washer assemblies	05 1000 1.3.A.2.b	z	P,TR,CT		Y	
Erection Plan with description of temporary supports	05 1000 1.3.A.3.a	z	P		Y	
Fabrication drawings with description of connections	05 1000 1.3.A.3.b	z	D		Y	

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Welding procedures and procedure qualification records	05 1000 1.3.A.3.c	Z	P		Y	
Product data: Shop primer	05 1000 1.3.A.4.a		P			
Product data: Direct tension indicators	05 1000 1.3.A.4.b		P			
Product data: Non-shrink grout	05 1000 1.3.A.4.c		P			
Product data: Tension control bolts	05 1000 1.3.A.4.d		P			
Certified Material Test Reports (CMTR)	05 1305 1.4.A.1		P,TR		Y	
Material Safety Data Sheets (MSDS)	05 1305 1.4.A.2		P			
Shop drawings: Steel joints	05 2100 1.2.A.1	F	SD			
Certificates: Accessories	05 2100 1.2.A.2.a		P,CT			
Certificates: Welder qualification	05 2100 1.2.A.2.b	Z	P,CT			
Test Reports: Erection and Welding Inspections	05 2100 1.2.A.3		P,TR			
Certificates: deck units	05 3000 1.2.A.1.a		P,CT			
Certificates: accessories	05 3000 1.2.A.1.b		P,CT			
Certificates: wind storm resistance	05 3000 1.2.A.1.c		P,CT			
Certificates: qualification of welders	05 3000 1.2.A.1.d		P,CT			
Certificates: fire safety	05 3000 1.2.A.1.e		P,CT			
Certificates: self-drilling, self-tapping screws	05 3000 1.2.A.1.f		P,CT			
Certificates: mill test reports	05 3000 1.2.A.1.g		P,CT			
Certificates: test reports	05 3000 1.2.A.1.h		P,CT			
Fabrication drawings	05 3000 1.2.A.2		D			
Product data: deck units	05 3000 1.2.A.3.a	X	P			
Product data: sound absorbing material	05 3000 1.2.A.3.b	X	P			
Product data: accessories	05 3000 1.2.A.3.c	X	P			
Product data: mechanical fasteners	05 3000 1.2.A.3.d	Z	P			
Design Data: deck units	05 3000 1.2.A.4.a					
Design Data: manufacturer's design calculations	05 3000 1.2.A.4.b		P			
Samples: deck units	05 3000 1.2.A.5.a	Z	S			
Samples: Accessories	05 3000 1.2.A.5.b	Z	S			
Catalog data on standard framing members describing materials, finish and including structural properties tables.	05 4000 1.3.A		P,CD			
Shop drawings: Indicate component details, [framed openings,] [bearing,] [anchorage,] [loading,] [welds,] [type and location of fasteners,] and accessories or items required of related Work	05 4000 1.3.B.1	F	SD			

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Shop drawings: Indicate [stud,] [floor joist,] [ceiling joist,] [roof joist,] [roof rafter,] [roof truss,] [and] [] layout	05 4000 1.3.B.2	F	SD			
Shop drawings: Describe method for securing [studs] [] to tracks and for [bolted] [welded] [] framing connections	05 4000 1.3.B.3	F	SD			
Installation instructions indicating special procedures, perimeter conditions requiring special attention.	05 4000 1.3.C	W	P,II			
Mail Certifications: Submit mill certifications for steel delivered to site. Certify steel bare metal thickness in 0.001 inch, yield strength, tensile strength, total elongation in 2 inch or 8 inch gauge length, chemical analysis, and galvanized coating thickness.	05 4000 1.3.D	W	P,CT			
SUSTAINABLE DESIGN: Manufacturer's Certificate: Certify products meet or exceed specified sustainable design requirements.	05 4000 1.4.A		P,CT			
SUSTAINABLE DESIGN: Materials resource certificates: 1)Certify: source and origin for [salvaged] [and] [reused] products 2)Certify: recycled material content for recycled content products 3)Certify: source for local and regional materials and distance from Project site	05 4000 1.4.A.1		P,CT			
SUSTAINABLE DESIGN: Indoor air quality certificates: Certify volatile organic compound content for each interior paint and coating	05 4000 1.4.A.2		P,CT			
SUSTAINABLE DESIGN: Product Cost Data: cost of products to verify compliance with Project sustainable design requirements. Exclude cost of labor and equipment to install products	05 4000 1.4.B		P			
SUSTAINABLE DESIGN cost data for the following products: a. Salvaged products b. Reused products c. Products with recycled material content d. Local and regional products	05 4000 1.4.B.1		P			
Product data: for products used in metal fabrications, including paint products, grout and fasteners.	05 5000 1.5.A		P,CD			
Shop drawing describing each fabricated item. Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size type of fasteners, and accessories. Erection drawings, elevations, and details where applicable. Indicate welded connections using standard AWS welding symbols. Indicate net weld lengths	05 5000 1.4.B	F	D			

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Samples: Submit two [____], [____x____] inch in size illustrating factory finishes [____].	05 5000 1.4.C	F	S (2)			
Welders certifications	05 5000 1.4.D	F	P,CT			
Mill Certificate of compliance for Steel	05 5000 1.4.E		P			
Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers certifying that shop primers are compatible with topcoats	05 5000 1.4.F		P,CT			
Delegated-Design: For installed products indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.	05 5000 1.4.G		P			
Welding Procedures: written welding procedure specification (WPS) document per AWS Code requirements.	05 5000 1.4.H		P			
Qualification For qualified professional engineer	05 5000 1.4.I		P			
Sustainable Design: Product Data: Indicating percentages by weight of postconsumer and pre-consumer recycled content for products having recycled content. Include statement indicating costs for each product having recycled content.	05 5000 1.5.A		P			
Sustainable Design: Shop Drawings: Manufacturer's certificate: Certify products meet or exceed specified sustainable design requirements	05 5000 1.5.B		P,CT,SD			
Sustainable Design: Materials resources certificates 1)Certify: source and origin for [salvaged] [and] [reused] products 2)Certify: recycled material content for recycled content products 3)Certify: source for local and regional materials and distance from Project site	05 5000 1.5.B.1		P,CT			
Sustainable Design: Indoor air quality certificates: Certify volatile organic compound content for each interior paint coating.	05 5000 1.5.B.2		P,CT			
Sustainable Design: Product cost data: Cost of products to verify compliance with Project sustainable design requirements. Exclude cost of labor and equipment to install products	05 5000 1.5.C		P			
Sustainable Design: Cost data for the following products: a. Salvaged products b. Reused products c. Products with recycled material content d. Local and regional products	05 5000 1.5.C.1		P			

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Catalog data	05 5200 1.3.A.1		P,CD			
Shop drawings	05 5200 1.3.A.2	F	SD			
Product Data	05 5213 1.5.A.1		P,CD			
Shop Drawings	05 5213 1.5.A.2	F	SD			
Samples: Submit [two] [____], [____] inch long samples of handrail. Submit [two] [____] samples, of [elbow] [Tee] [wall bracket] [escutcheon] [and] [end stop].	05 5213 1.5.A.3		S			
Certificates: Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers certifying that shop primers are compatible with topcoats	05 5213 1.5.A.4		P,CT			
Sustainable Design: Certificates	05 5213 1.6.A		P,CT			
Sustainable Design: Materials Resources Certificates	05 5213 1.6.A.1		P,CT			
Sustainable Design: Indoor Air Quality Certificates	05 5213 1.6.A.2		P,CT			
Sustainable Design: Product Cost Data: Cost of products to verify compliance with Project sustainable design requirements. Exclude cost of labor and equipment to install products	05 5213 1.6.B		P			
Sustainable Design: Cost data for the following products: e. Salvaged products f. Reused products g. Products with recycled material content h. Local and regional products	05 5213 1.6.B.1		P			
Catalog data	05 5350 1.3.A	X	P,CD			
Shop Drawings: Indicate details of [gratings,] [plates,] component supports, [anchorage,] [openings,] perimeter construction details, and tolerances. Indicate welded connections using standard AWS A2.4 welding symbols. Indicate net weld lengths	05 5350 1.3.B	F	SD			
Mill certificates: Signed by manufacturers of stainless-steel sheet certifying that products furnished comply with requirements	05 5350 1.3.C		P,CT			
Paint compatibility Certificates: From manufacturers of topcoats applied over shop primers certifying that shop primers are compatible with topcoats	05 5350 1.3.D		P,CT			
Delegated-Design: For installed products indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation	05 5350 1.3.E		P			
Qualification Data: For qualified professional engineer	05 5350 1.3.F		P			

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Manufacturers Installation Instructions: special requirements of [opening,] [perimeter framing,] [and] [_____].	05 5350 1.3.G		P-II			
SUSTAINABLE DESIGN: Product Data: Indicating percentages by weight of postconsumer and preconsumer recycled content for products having recycled content. Include statement indicating costs for each product having recycled content.	05 5350 1.4.A		P,CD			
SUSTAINABLE DESIGN: Manufacturer's certificate: Certify products meet or exceed specified sustainable design requirements	05 5350 1.4.B		P,CT			
SUSTAINABLE DESIGN: Materials resources certificates	05 5350 1.4.B.1		P,CT			
SUSTAINABLE DESIGN: Indoor air quality certificates	05 5350 1.4.B.2		P,CT			
Product data	06 1000 1.3.A.1	X	P			
Material certificates for dimension lumber	06 1000 1.3.A.2		P,CT			
Wood treatment data	06 1000 1.3.A.3		P			
LEED submittals	06 1000 1.3.B					
Shop drawings of architectural woodwork	06 2000 1.3.A.1	F	SD			
Catalog data for hardware and specialty items.	06 2000 1.3.A.2		P,CD			
Shop drawings of architectural woodwork	06 4100 1.3.A.1	F	SD			
Catalog data for hardware and specialty items.	06 4100 1.3.A.2		P,CD			
Product Data:	07 0150.19 1.5.A	X	P,CD			
For each type of product indicated	07 0150.19 1.5.A.1	X	P,CD			
Temporary Roofing: Include Product Data and description of temporary roofing system. If temporary roof will remain in place, submit surface preparation requirements needed to receive permanent roof, and submit a letter from roofing membrane manufacturer stating acceptance of the temporary membrane and that its inclusion will not adversely affect the roofing system's resistance to fire and wind [or its FM Global rating].	07 0150.19 1.5.A.2	X				
Field Reports	07 0150.19 1.5.B	WKLY	P			
Test and Evaluation Reports: Fastener pull-out test report.	07 0150.19 1.5.B.1		P,TR			
Field Quality Control: Landfill records: Records: Indicate receipt and acceptance of hazardous wastes, such as asbestos-containing material, by a landfill facility licensed to accept hazardous wastes.	07 0150.19 1.5.C.1		R,D			

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Special Procedure: Photographs and Videotape: Show existing conditions of adjoining construction and site improvements, including exterior and interior finish surfaces that might be misconstrued as having been damaged by reroofing operations. Submit before work begins. LANL STR will obtain government approved camera and approved permission forms prior to taking of photographs or videotape.	07 0150.19 1.5.D.1		PH			
Qualification Statements: For installer [including certificate that Installer is licensed to perform asbestos abatement] [and] [is approved by warrantor of existing roofing system].	07 0150.19 1.5.E.		P, CT			
Installation instructions	07 0155 1.2.A.1	W	P			
Product data	07 1113 1.3.A.1	X	P			
Application data	07 1113 1.3.A.2		P			
Product data	07 2100 1.3.A.	X	P,CD		Y	
Certification	07 2100 1.3.B		P,CT			
Product Test Reports	07 2100 1.3.C	WKLY	P,TR			
Research/Evaluation Reports	07 2100 1.3.D		P			
Material Safety Data Sheets (MSDS): Submit MSDS for each adhesive product.	07 2100 1.3.E		P			
SUSTAINABLE DESIGN Product data indicating percentages by weight of postconsumer and pre-consumer recycled content for products having recycled content.	07 2100 1.4.A	X	P			
Statement indicating costs for each product having recycled content.	07 2100 1.4.A.1	X	P			
Catalog data	07 2113 1.2.A.1	X	P,CD			
Installation instruction	07 2113 1.2.A.2	W	P,II			
Sample of each board type	07 2113 1.2.A.3.a	X	S			
Sample of each fastener type	07 2113 1.2.A.3.b	X	S			
Shop drawings: roof plan	07 2113 1.2.A.4	F	SD			
Certificates	07 2113 1.2.A.5		P,CT			
Warranty	07 2113 1.2.A.6		P,WA			
Product data	07 2400 1.4.B	X				
Installation instructions	07 2400 1.4.C	W	P			
Shop drawings	07 2400 1.4.D	F	SD			
Certification: full scale fire test	07 2400 1.4.E		P			
Certification: FM or UL listed	07 2400 1.4.F		O,CT			

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Certification	07 2400 1.4.G		P,CT			
Sample	07 2400 1.4.H.1		S			
Installer certificates	07 2400 1.4.I		P			
Test reports	07 2400 1.4.J		P,TR			
Sealant compatibility	07 2400 1.4.K					
Shop drawings	07 3113 1.3.A.1		D			
Catalog data	07 3113 1.3.A.2		P			
Samples	07 3113 1.3.A.3		S			
Installation instructions	07 3113 1.3.A.4		P, II			
Warranty	07 3113 1.3.A.5		P,WA			
Catalog data	07 4113 1.4.A	X	P, CD			
Shop drawings	07 4113 1.4.B	W	D, SD			
Samples	07 4113 1.4.C	X	S			
Manufacturer's Certificates: Signed by manufacturer certifying that roof panels comply with energy performance requirements specified in "Performance Requirements" Article.	07 4113 1.4.D	X	P, CT			
Evidence of meeting performance requirements.	07 4113 1.4.D.1	W	P			
SUSTAINABLE DESIGN Product Test Reports for roof panels, indicating that panels comply with solar reflectance index requirement.	07 4113 1.5.A	X	P-TR			
Product Data: indicating percentages by weight of postconsumer and preconsumer recycled content for products having recycled content.	07 4113 1.5.B	X	P,CD			
Statement indicating costs for each product having recycled content.	07 4113 1.5.B.1	X	P			
Maintenance Data	07 4113 1.6.A	At Closeout	P			
Warranty	07 4113 1.6.B	At Closeout	WA			
Catalog Data	07 5050 1.3.A.1		S,CD			
Installation instructions	07 5050 1.3.A.3		P,II			
Retrofit shop drawings	07 5050 1.3.A.4		D			
Warranty	07 5050 1.3.A.5	Z	P,WA			
Water intrusion plan	07 5050 1.3.A.6	Z				
Qualifications	07 5050 1.3.A.7					
Product Data	07.5213.13 1.4.A		P			
Shop Drawings	07.5213.13 1.4.B	F	SD			
Selection Samples	07.5213.13 1.4.C		SC(2 for each)			

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Verification Samples	07.5213.13 1.4.D		SC(2 for each)			
Manufacturers Certificates	07.5213.13 1.4.E		P,CT			
Product Test Reports	07.5213.13 1.4.F		P,TR			
Research/Evaluation Reports	07.5213.13 1.4.G		P			
Manufacturer's Instructions	07.5213.13 1.4.H		P,II			
Qualification Data	07.5213.13 1.4.I		P			
Product Data	07 5216 1.4.A	X	P			
Preparation instructions and recommendations	07 5216 1.4.A.1	W	P			
Storage and handling requirements and recommendations	07 5216 1.4.A.2	X	P			
Roof insulation	07 5216 1.4.A.3	X	P			
Manufacturer's published specifications, base flashing details for the specified system	07 5216 1.4.A.4		P			
Submit Material Safety Data sheets on all roofing materials to be used.	07 5216 1.4.A.5		P			
Shop Drawings	07 5216 1.4.B	F	SD			
Roof system and base flash configuration	07 5216 1.4.B.1		D			
Penetration Details	07 5216 1.4.B.2		D			
Termination Details	07 5216 1.4.B.3		D			
Fastening patterns	07 5216 1.4.B.4		D			
Tapered insulation design	07 5216 1.4.B.5		D			
Selection Samples	07 5216 1.4.C	X	SC			
Verification Samples	07 5216 1.4.D	X	SC			
Manufacturers Certificates	07 5216 1.4.E	X	P,CT			
Evidence of complying with performance requirements	07 5216 1.4.E.1	X	P, CT			
Product Test Reports	07 5216 1.4.F		P,TR			
Research/Evaluation Reports	07 5216 1.4.G		P			
Manufacturer's Instructions: published installation instructions and methods	07 5216 1.4.H.1	#30 W	P,II			
Qualification Data	07 5216 1.4.I		P			
Sustainable Design: Product Test Reports for roof materials, indicating that roof materials comply with Solar Reflectance Index requirement	07 5216 1.5.A	X	TR			
Sustainable Design: Product data for adhesives and sealants, including printed statement of VOC content	07 5216 1.5.B	X	P			

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Sustainable Design: Submit Manufacturer's documentation of Energy Star labeled roofing materials	07 5216 1.5.C	X	P			
Maintenance data: for roofing system, to include in roofing manuals	07 5216 1.6.A	At close-out	P			
Roofing membrane Manufacturer's warranty covering materials	07 5216 1.6.B.1	At close-out	P,WA			
Roofing Subcontractors Warranty covering workmanship	07 5216 1.6.B.2	At close-out	P,WA			
Product Data	07 5217 1.4.A	X	P			
Preparation instructions and recommendations	07 5217 1.4.A.1	#30 W	P			
Storage and handling requirements and recommendations	07 5217 1.4.A.2	X	P			
Roof insulation	07 5217 1.4.A.3		P			
Manufacturer's published specifications, base flashing details for the specified system	07 5217 1.4.A.4	W	P			
Material safety data sheets for all roofing materials to be used	07 5217 1.4.A.5		P			
Shop Drawings	07 5217 1.4.B	F	SD			
Roof system and base configuration	07 5217 1.4.B.1		D			
Penetration details	07 5217 1.4.B.2		D			
Termination details	07 5217 1.4.B.3		D			
Fastening Patterns	07 5217 1.4.B.4		D			
Tapered insulation design	07 5217 1.4.B.5		D			
Selection Samples	07 5217 1.4.C	X	SC (2)			
Verification Samples	07 5217 1.4.D	X	SC (2)			
Manufacturers Certificates	07 5217 1.4.E	X	P,CT			
Evidence of complying with requirements	07 5217 1.4.E.1		P			
Product Test Reports	07 5217 1.4.F		TR			
Research/Evaluation Reports	07 5217 1.4.G		P			
Manufacturers Instructions	07 5217 1.4.H		P,II			
Qualification Data	07 5217 1.4.I		P			
Sustainable Design: Product Test Reports for roof materials, indicating that roof materials comply with Solar Reflectance Index requirement	07 5217 1.5.A	X	P,TR			
Sustainable Design: Product data for adhesives and sealants, including printed statement of VOC content	07 5217 1.5.B	X	P			
Sustainable Design: Submit Manufacturer's documentation of Energy Star labeled roofing materials	07 5217 1.5.C	X	P			
Maintenance data: for roofing system, to include in roofing manuals	07 5217 1.6.A	At close-out	P,OM			
Roofing membrane Manufacturer's warranty covering materials	07 5217 1.6.B.1	At close-out	P,WA			

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Roofing Subcontractors Warranty covering workmanship	07 5217 1.6.B.2	At close-out	P,WA			
N/A	07 5316					
Catalog Data	07 6200 1.3.A.1	X	P,CD			
Product Data	07 6200 1.3.A	X	p			
Shop Drawings: Include details for forming, joining, supporting, and securing sheet metal flashing and trim, including pattern of seams, termination points, fixed points, expansion joints, expansion-joint covers, edge conditions, special conditions, and connections to adjoining work.	07 6200 1.3.B.1	W	D			
Samples for Initial Selection Purposes: Submit manufacturer's color charts and texture variations for specified sheet materials to be exposed as finished surfaces	07 6200 1.3.B.2	X	SC			
Sustainable Design: Manufacturer's Certificate	07 6200 1.4.A	X	P,CT			
Sustainable Design: Material Resources Certificates: Certify recycled material content for recycled content products	07 6200 1.4.B.1	X	P,CT			
Maintenance Data: For sheet metal flashing, trim and accessories to include in maintenance manuals	07 6200 1.5.A	At Close-Out	P			
Sample of special warranty	07 6200 1.5.B	At Close-Out	P,WA			
Shop drawings	07 7100 1.2.B.1	F	SD			
Catalog data	07 7100 1.2.A.2	X	P,CD			
Samples	07 7100 1.2.A.3	X	(2)S			
Installation instructions	07 7100 1.2.A.4	W	P,II			
Catalog Data	07 7123 1.3.A.1	X	P,CD			
Shop Drawings	07 7123 1.3.A.2	F	SD			
Samples	07 7123 1.3.A.3	X	(1)S			
Warranty	07 7123 1.3.A.4	Z	P,WA			
Catalog data	07 7233 1.3.A.1	X	P,CD			
Installation instructions	07 7233 1.3.A.2	#30 W	P,II			
Warranty	07 7233 1.3.A.3	Z	P,WA			
Catalog data	07 7600 1.2.A.1	X	P,CD			
Installation instructions	07 7600 1.2.A.2	#30 W	P,II			
Samples	07 7600 1.2.A.3	X	(2)S			
Warranty	07 7600 1.2.A.4	Z	P,WA			
Product data	07 8400 1.5.A.1		P			
Engineering Judgments	07 8400 1.5.A.2		P,D		Y	

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Schedule	07 8400 1.5.A.3		P			
Manufacturer's installation instructions	07 8400 1.5.A.4		D			
Catalog data	07 9200 1.2.B	X	P,CD			
LEED Submittal	07 9200 1.2.C		P			
Samples	07 9200 1.2.D	X	S			
Warranty	07 9200 1.2.E	Z	P,WA			
Catalog data	08 1100 1.3.A.1		P,CD			
Certifications	08 1100 1.3.A.2		P,CT			
Shop drawings for fabrication and installation of steel door and frames.	08 1100 1.3.A.3		SD			
Catalog data	08 1213 1.2.A.1		P,CD			
Certifications	08 1213 1.2.A.2		P,CT			
Shop drawings	08 1213 1.2.A.3		D			
Catalog data	08 1400 1.2.A.1		P,CD			
LEED Submittals (if claiming credits)	08 1400 1.2.A.2	Z	P			
Color and finish samples	08 1400 1.2.A.3		S,SC		Y	
Shop drawings	08 1400 1.2.A.4	F	SD			
Warranty	08 1400 1.2.A.5		P,WA			
Catalog data	08 3100 1.2.A.1		P,CD			
Manufacturer's installation instructions	08 3100 1.2.A.2		P,II			
Schedule	08 3100 1.2.A.3		P			
Catalog data	08 3323 1.3.A.1	X	P,CD			
Shop drawings	08 3323 1.3.A.2	F	SD			
Manufacturer's installation instructions	08 3323 1.3.A.3	W	P,II			
Operation and maintenance data	08 3323 1.3.A.4		P,OM			
Manufacturer's standard labor and material warranty	08 3323 1.3.A.5		P,WA			
Catalog data	08 4113 1.4.A.1	X	P,CD			
Calculations or load tables	08 4113 1.4.A.2		P,CA			
Shop drawings	08 4113 1.4.A.3	F	SD			
Samples	08 4113 1.4.A.4	X	(2)S			
Manufacturer's standard warranty	08 4113 1.4.A.5		P			
Catalog data	08 5113 1.4.A.1	X	P,CD			
Shop drawings	08 5113 1.4.A.2	#30 W	D			

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Warranty	08 5113 1.4.A.3	Z	P,WA			
Catalog data	08 7100 1.5.A.1	X	P,CD			
Materials list of final hardware schedule	08 7100 1.5.A.2		P			
Final Hardware schedule	08 7100 1.5.A.3		P			
Submittal sequence	08 7100 1.5.A.4	F	P, D			
5 year warranty on materials and installation workmanship	08 7100 1.5.A.5					
Manufacturer's standard materials and workmanship 2 yr. warranty	08 7100 1.5.A.6					
Complete set of specialized tools and maintenance instructions	08 7100 1.5.A.7	Z	P			
Catalog data on glass types	08 8000 1.3.A.1	X	P			
Catalog data on glazing compounds	08 8000 1.3.A.2		P			
Manufacturer's certifications [sealed insulated glass] [bullet resistant glass] [polycarbonate sheet] meet or exceed specified requirements.	08 8000 1.3.A.3		P			
Glazing compound manufacturer's installation instructions	08 8000 1.3.A.4		P			
LEED: Product Data for Credit EQ 4.1	08 8000 1.3.A.5		P			
Samples of only special types of glass	08 8000 1.3.A.6		S			
Three inch long beads of glazing sealant for color selection	08 8000 1.3.A.7		(S)			
Manufacturer's standard labor and material replacement warranty	08 8000 1.3.A.8		P			
Catalog data product criteria	08 9100 1.3.A.1	X	P			
Manufacturer's installation instructions.	08 9100 1.3.A.2	#30 W	P			
Samples of color charts for metal and screen	08 9100 1.3.A.3		S			
Shop drawings of component details, framed openings, bearing, and anchor location of fasteners and accessories.	08 9100 1.3.A.4	F	SD			
Catalog data	09 2116 1.2.A.1		P,CD			
Gypsum manufacturer's documentation of recycled content for gypsum board.	09 2116 1.2.A.2		P			
Gypsum manufacturer's documentation of buyback and/or recycling program.	09 2116 1.2.A.3		P			
Manufacturer's written certification that all materials are free of asbestos.	09 2116 1.2.A.4	#30 W	P,CT			
Manufacturer's installation instructions.	09 2116 1.2.A.5	#30 W	P,II			
Twelve inch square sample	09 2116 1.2.A.6		S			
Product data	09 2913 1.2.A		P			
Shop drawings	09 2913 1.2.B	F	SD			
Certification	09 2913 1.2.C		P,CT			
Samples of proposed tile	09 3013 1.2.A.1		S		Y	

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Samples of grout material	09 3013 1.2.A.2		S		Y	
Manufacturer's installation instructions	09 3013 1.2.A.3	#30 W	P,II			
Catalog data	09 5100 1.3.A.1	X	P,CD			
Manufacturer's documentation of recycled	09 5100 1.3.A.2		P			
Manufacturer's documentation	09 5100 1.3.A.3		P			
Manufacturer's certification	09 5100 1.3.A.4		P,CT			
Manufacturer's installation instructions.	09 5100 1.3.A.5	#30 W	P,II			
[twelve inch square sample of ceiling panel]	09 5100 1.3.A.6	Z	S			
Product data	09 6500 1.3.A	X	P, S		Y	
Samples	09 6500 1.3.B		SC		Y	
Manufacturer's installation instructions.	09 6500 1.3.C		P,II			
Sustainable Design: certification that percentage of recovered materials will be at least equal to amount specified in Part 2 for applicable material	09 6500 1.4.A		P,CT			
Sustainable Design: Indoor air quality certificates	09 6500 1.4.B		P,CT			
Closeout Submittals: Provide manufacturer's cleaning and maintenance information	09 6500 1.5	At Close-Out	P			
Maintenance Material: At least 5% of calculated area of flooring materials of each type specified	09 6500 1.6		P			
Product data	09 6513 1.4.A.1	X	P		Y	
Manufacturer's installation instructions	09 6513 1.4.A.2		P			
Samples of color range specified or offered by the manufacturer	09 6513 1.4.A.3		S,SC			
Cleaning and maintenance information	09 6513 1.4.A.4		P			
Certification	09 6513 1.4.A.5		P,CT			
Manufacturer's certification	09 6513 1.4.A.6		P,CT			
Catalog data	09 8613 1.3.A.1	X	P,CD			
Manufacturer's certificate	09 8613 1.3.A.2		P,CT			
Manufacturer's installation instructions	09 8613 1.3.A.3		P,II			
Four carpet tiles	09 8613 1.3.A.4		S			
Shop drawings	09 8613 1.3.A.5	F	SD			
Maintenance data	09 8613 1.3.A.6		P			
Project written warranty for all labor and materials, signed by Subcontractor, Installer	09 8613 1.3.A.7	X	P		Y	
Catalog data	09 6816 1.2.A.1	X	P,CD			
Manufacturer's certificate	09 6816 1.2.A.2		P,CT			

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Submit manufacturer's certificate	09 6816 1.2.A.3		P			
Four 12 by 12 inch samples	09 6816 1.2.A.4		(4)S			
Shop drawings	09 6816 1.2.A.5	F	SD			
Maintenance procedures	09 6816 1.2.A.6		P			
Project warranty for all labor and materials, signed by Subcontractor, Installer and Manufacturer	09 6816 1.2.A.7		P			
Catalog data	09 6919 1.2.A.1	X	P,CD			
Manufacturer's certification	09 6919 1.2.A.2		P,CT			
Manufacturer's installation instructions	09 6919 1.2.A.3		P,II			
Color chart or samples of vinyl tile for color selection.	09 6919 1.2.A.4		S			
Shop drawings	09 6919 1.2.A.5	F	SD			
Maintenance data	09 6919 1.2.A.6		P			
Catalog data	09 9100 1.3.A.1	X	P,SC		Y	
Qualification Data	09 9100 1.3.A.2		P			
Samples	09 9100 1.3.A.3		P,SC			
Sustainable Design: Certificate of compliance for specified post consumer content	09 9100 1.3.B.1		P,CT			
Sustainable Design: List the VOC content of each product	09 9100 1.3.B.2		P			
Maintenance Material: Provide 1 extra gallon of each type, color, and surface texture to LANL	09 9100 1.3.C.1.a					
Maintenance Material: Label each container with color, texture, room locations, in addition to the manufacturer's label	09 9100 1.3.C.1.b					
Catalog data on marker board, tack board surface covering, trim and accessories.	10 1100 1.3.A.1	X	P			
Tack board material color chart	10 1100 1.3.A.2		S			
Manufacturer's installation instructions.	10 1100 1.3.A.3		P			
Maintenance information	10 1100 1.3.A.4		P			
Product Data	10 1405 1.3.A		P			
Shop drawings	10 1405 1.3.B	F	SD			
Samples.	10 1405 1.3.C		P,SC			
Manufacturer's recommended care and cleaning methods including precautions against harmful cleaning materials and methods	10 1405 1.4.A	At Close-out	P			
Manufacturer's warranty documents	10 1405 1.4.B	At Close-out	P,WA			
Shop drawings	10 1410 1.3.A	F	SD			

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Samples	10 1410 1.3.B		P,SC			
Schedule of Signs	10. 1410 1.3.C		P			
Manufacturer's recommended maintenance methods	10. 1410 1.4.A	At Closeout	P			
Manufacturer's warranty documentation	10. 1410 1.4.B	At Closeout	P,WA			
Template file to end-user as described in 2.2E.b	10. 1410 1.4.C	At Closeout				
Maintenance Materials template file to end-user as described in 2.2E.b below	10. 1410 1.5.A					
Maintenance Materials six (6) suction cup tools for changing inserts in the aluminum frame	10. 1410 1.5.B					
Product data	10 2113.13 1.4.A.1		P		Y	
Shop drawings	10 2113.13 1.4.A.2	F	SD		Y	
Submit Samples	10 2113.13 1.4.A.3		P,S		Y	
Catalog data	10 2800 1.3.A.1	X	P,CD			
Manufacturer's installation instructions	10 2800 1.3.A.2		P,II			
Catalog data	10 4400 1.2.A.1	X	P,CD			
Shop drawings	10 4400 1.2.A.2	F	SD			
Catalog data	10 5113 1.2.A.1	X	P,CD			
Color chart	10 5113 1.2.A.2		P,SC			
Manufacturer's installation instructions	10 5113 1.2.A.3		P,II			
Shop drawings	10 5113 1.2.A.4	F	SD			
Catalog data	11 1313 1.2.A.1	X	P			
Manufacturer's installation instructions.	11 1313 1.2.A.2		P,II			
Reference to LANL Subcontract Number.	11 5311.08 1.7.A		P			
Submittals listed in Att.4 and in accordance w the requirements of Exh I – Lower Tier Services Plan	11 5311.08 1.7.B		P			
Reference to LANL Subcontract Number.	11 5311.10 1.8.A		P			
Submittals listed in Att.3 and in accordance w the requirements of Exh I	11 5311.10 1.8.B		P			
As-Built Drawings	11 5311.10 1.8.B	w/shipment	D			
Lower Tier Services Plan	11 5311.10 1.8.B	W/shipment; at prefab. Conf.				
Fabrication Schedule	11 5311.10 1.8.B	W/shipment; at prefab. Conf.				
Bill of Lading	11 5311.10 1.8.B	w/shipment				
Quality Assurance Manual (Fabrication)	11 5311.10 1.8.B	W/shipment; at prefab. Conf.				

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Fabrication and Quality Control (QC) Procedures (Include Rev # or Date):	11 5311.10 1.8.B					
Welding Procedure Specifications (WPS)	11 5311.10 1.8.B	F				
Welding Procedure Qualification Record (PQR)	11 5311.10 1.8.B	F				
Material Control Procedure	11 5311.10 1.8.B	F				
Shop Traveler Procedure	11 5311.10 1.8.B	F				
Cleaning Procedure	11 5311.10 1.8.B	F				
Packaging Procedure	11 5311.10 1.8.B	F				
Leak Test Procedure	11 5311.10 1.8.B	F				
Liquid Penetrate Test Procedure	11 5311.10 1.8.B	F				
Stud Test Procedure	11 5311.10 1.8.B	F				
Calibration Procedure	11 5311.10 1.8.B	F				
Dimension mapping procedure	11 5311.10 1.8.B	F				
Welding & NDE Personnel List	11 5311.10 1.8.B	At prefab. Conf.				
Personnel Qualifications:	11 5311.10 1.8.B					
Welder Performance Qualification Records	11 5311.10 1.8.B	w/shipment; F				
NDE Personnel Certifications	11 5311.10 1.8.B	w/shipment; F				
Q.A. Document Package:	11 5311.10 1.8.B					
Test Reports:	11 5311.10 1.8.B					
Stud Test	11 5311.10 1.8.B	w/shipment	P,TR			
Liquid Penetrant Test	11 5311.10 1.8.B	w/shipment	P,TR			
Leak Test	11 5311.10 1.8.B	w/shipment	P,TR			
Torque Map	11 5311.10 1.8.B	w/shipment	P,TR			
Dimensional Control Map	11 5311.10 1.8.B	w/shipment	P,TR			
Cutout flatness grid map	11 5311.10 1.8.B	w/shipment	P,TR			
Material Certifications:	11 5311.10 1.8.B		CT			
Stainless Steel for Shell	11 5311.10 1.8.B	w/shipment	P,CT			
Other Stainless Steel Items	11 5311.10 1.8.B	w/shipment	P,CT			
Lead	11 5311.10 1.8.B	w/shipment	P,CT			
Weld Filler Materials	11 5311.10 1.8.B	w/shipment	P,CT			
Chloride Content	11 5311.10 1.8.B	w/shipment	P,CT			
Shop Traveler, Completed	11 5311.10 1.8.B	w/shipment				
Certificates of Compliance	11 5311.10 1.8.B	w/shipment	P,CT			
Supplier Deviation Disposition Request	11 5311.10 1.8.B	w/shipment; Z				

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	Notification for Inspection of Weld Fit-up	11 5311.10 1.8.B	7 working days adv. notice				
	Notification for Inspection of Lead Placement	11 5311.10 1.8.B	7 working days adv. notice				
	Notification for Acceptance Testing & Final Inspection	11 5311.10 1.8.B	7 working days adv. notice				
	Reference to LANL Subcontract Number.	11 5311.12 1.6.A		P			
	Submittals in accordance with the requirements of Exh I	11 5311.12 1.6.B		P			
	Certified Material Test Report or Certificates of Conformance.	11 5311.12 1.6.C		P, CT,TR			
	Submittals detailed in Quality Assurance	11 5311.12 1.6.D		P			
	QA Manual	11 5311.12 1.7.A		P		Y	
	Basic Requirement 1: Organization	11 5311.12 1.7.A.1		P		Y	
	Basic Requirement 2: Quality Assurance Program	11 5311.12 1.7.A.2		P		Y	
	Basic Requirement 4: Procurement Document Control	11 5311.12 1.7.A.3		P		Y	
	Basic Requirement 5: Instructions, Procedures, and Drawings	11 5311.12 1.7.A.4		P		Y	
	Basic Requirement 6: Document Control	11 5311.12 1.7.A.5		P		Y	
	Basic Requirement 7: Control of Purchased Items and Services	11 5311.12 1.7.A.6		P		Y	
	Basic Requirement 8: Identification and Control of Items	11 5311.12 1.7.A.7		P		Y	
	Basic Requirement 9: Control of Processes	11 5311.12 1.7.A.8		P		Y	
	Basic Requirement 10: Inspection	11 5311.12 1.7.A.9		P		Y	
	Basic Requirement 11: Test Control	11 5311.12 1.7.A.10		P		Y	
	Basic Requirement 12: Control of Measuring and Test Equipment	11 5311.12 1.7.A.11		P		Y	
	Basic Requirement 13: Handling, Storage, and Shipping	11 5311.12 1.7.A.12		P		Y	
	Basic Requirement 14: Inspection, Test, and Operating Status	11 5311.12 1.7.A.13		P		Y	
	Basic Requirement 15: Control of Nonconforming Items	11 5311.12 1.7.A.14		P		Y	
	Basic Requirement 16: Corrective Action	11 5311.12 1.7.A.15		P		Y	
	Address the following in the supplier QA Manual.	11 5311.12 1.7.B					
	Fabrication and Quality Control (QC) Procedures	11 5311.12 1.7.B.1		P		Y	
	Personnel Certifications.	11 5311.12 1.7.B.2	F	P			
	Test Reports.	11 5311.12 1.7.B.3		P,TR			
	Material Certifications.	11 5311.12 1.7.B.4		P,CT			
	As-Built Drawings.	11 5311.12 1.7.B.5	Z	D			
	QA Document Package.	11 5311.12 1.7.B.6	w/shipment	(3)P			
	Torque Maps.	11 5311.12 1.7.B.7		D			

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Weld Map.	11 5311.12 1.7.B.8		D			
Description of Quality Assurance program and procedures to LANL	11 5311.14 1.5.B.1	SANN	P			
Certificate of Conformance.	11 5311.14 1.5.C.1		P			
Lot test results	11 5311.14 1.5.D.1		P			
Material continuity	11 5311.14 1.5.D.1.a					
Visual inspection	11 5311.14 1.5.D.1.b					
Air tightness	11 5311.14 1.5.D.1.c					
Resistance to nitric acid	11 5311.14 1.5.D.1.d					
Aging tests	11 5311.14 1.5.D.1.e					
Results of mechanical properties testing	11 5311.14 1.5.D.1.f					
Lead equivalency measurement	11 5311.14 1.5.D.1.g	ANN				
Certification to applicable portions of the ASTM standards:	11 5311.14 1.5.D.2					
ASTM D120-95	11 5311.14 1.5.D.2.a					
ASTM F1236-96-e1	11 5311.14 1.5.D.2.b					
ASTM F640-79	11 5311.14 1.5.D.2.c					
Five pairs of gloves and prototype test results.	11 5311.14 1.5.E.					
5 pairs of gloves and prototype test results per Section 2.5.A.3.	11 5311.14 1.5.E.1		(5)P, S			
Verify compliance with all of the inspection.	11 5311.14 1.5.E.2	U				
Verify that the manufacturer has ensured that the shipment of gloves.	11 5311.14 1.5.E.3	U				
Maintain records of inspections.	11 5311.14 1.5.F.1	Z				
Product data	11 5311.16 1.5.B	X	P			
Design Data	11 5311.16 1.5.C.1.a		P			
Material certifications	11 5311.16 1.5.C.2.a	Z	P,CT			
Certified Material Test Reports (CMTR's)	11 5311.16 1.5.C.2.b	Z	P,TR		Y	
Documentation for potting material.	11 5311.16 1.5.C.2.c		P			
Quality Assurance/Quality Control: Test Reports	11 5311.16 1.5.C.3					
Documentation.	11 5311.16 1.5.C.3.a		P			
Test reports/data sheets	11 5311.16 1.5.C.3.b	Z	P,TR			
Manufacturer's Instructions	11 5311.16 1.5.C.4.a		P,II			
Qualification Statements	11 5311.16 1.5.C.5		P			
ISO 9001 certification in accordance with Section 1.6	11 5311.18 1.5.A.1					
Uncontrolled copy of the supplier's QA plan.	11 5311.18 1.5.A.2		P		Y	

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Helium leak test	11 5311.18 1.5.A.3					
Helium leak test procedure per ASTM E498	11 5311.18 1.5.A.4					
Test reports with signatures by personnel	11 5311.18 1.5.A.5		P			
NDE certifications for test personnel for approval, prior to testing	11 5311.18 1.5.A.6		P		Y	
CMTRs (alloy designations)	11 5311.18 1.5.A.7		P		Y	
Calibration data	11 5311.18 1.5.A.8		P			
Circuit wiring diagrams and electrical schematics	11 5311.18 1.5.A.9		D			
Supplier's installation instructions	11 5311.18 1.5.A.10		P			
Functional test procedure	11 5311.18 1.5.A.11		P			
Catalog data	11 5311.18 1.5.A.12	X	P			
Performance Data/Curves	11 5311.18 1.5.A.13					
Blower	11 5311.18 1.5.A.13.a		P			
Vacuum Pump.	11 5311.18 1.5.A.13.b		P			
Catalyst	11 5311.18 1.5.A.13.c		P			
Molecular Sieve	11 5311.18 1.5.A.13.d		P			
Documentation of cleaning techniques	11 5311.18 1.5.A.14		P			
Drawings	11 5311.18 1.5.A.15	#30 Z	(3)D		Y	
Operation and maintenance instructions	11 5311.18 1.5.A.16	S	(2) P			
Catalog data	12 2113 1.3.A.1	X	P			
Samples	12 2113 1.3.A.2		P,S			
Manufacturer's installation instructions.	12 2113 1.3.A.3		P,II			
Catalog data	12 3100 1.3.A.1	X	P,CD			
Manufacturer's installation instructions.	12 3100 1.3.A.4		P,II			
Samples	12 3100 1.3.A.3		P,SC			
Shop drawings	12 3100 1.3.A.2		D			
Sustainable Design: Manufacturer's Certificates	12 3100 1.3.B.1.		P,CT			
Sustainable Design: Materials Resources Certificates	12 3100 1.3.B.1.a		P,CT			
Sustainable Design: Indoor Air Quality Certificates	12 3100 1.3.B.1.b		P,CT			
Sustainable Design: Product Cost Data	12 3100 1.3.B.2		P			
Operations and Maintenance Data	12 3100 1.3.C.1	At Closeout	P			
Manufacturer's Warranty Documentation	12 3100 1.3.C.2	At Closeout	P,WA			
Product Data	12 5100 1.3.A.1	X	P			

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Test Reports	12 5100 1.3.A.2		P			
Samples for Final Selection:	12 5100 1.3.A.3		P,S			
Anchoring/backer board detail for wall mounted panels and tracks.	12 5100 1.3.A.4		D			
Furniture Layout	12 5100 1.3.A.5		D			
Finish Schedule	12 5100 1.3.A.6		P			
Description of options for tables and chairs.	12 5100 1.3.A.7		P			
Product Data: For each type of Metal Building System component. Include construction details, material descriptions, dimensions of individual components and profiles, and finished for the following:	13 3419 1.4.A	X	P,CD			
Structural wall panels	13 3419 1.4.A.1		P,CD			
Metal roof panels	13 3419 1.4.A.2		P,CD			
Metal wall panels	13 3419 1.4.A.3		P,CD			
Metal liner panels	13 3419 1.4.A.4		P,CD			
Translucent panels	13 3419 1.4.A.5		P,CD			
Shop drawings	13 3419 1.4.B		P, D			
Color samples	13 3419 1.4.C.1		P,SC		Y	
Samples for verification	13 3419 1.4.C.2		S			
Certificates	13 3419 1.4.D		P,CT			
Erector Certificates: For each project, from manufacturer.	13 3419 1.4.D.1		P,CT			
Manufacturers Certificates: For each product, from manufacturer	13 3419 1.4.D.2		P,CT		Y	
Delegated Design Submittals	13 3419 1.4.E		D			
Structural Basis document	13 3419 1.4.E.1		D			
Structural-Design calculations for the Metal Building, and for the seismic design of the nonstructural components within / on it	13 3419 1.4.E.2		D			
Statement of Structural Tests and Special Inspections (i.e., Test and Inspection Plan per LANL ESM Chapter 16).	13 3419 1.4.E.3		P			
Anchor bolt placement plan, column reactions [,and] [] in advance of erection drawings	13 3419 1.4.E.4		P			
Test and evaluation Reports	13 3419 1.4.F		P,TR			
Material Test Reports	13 3419 1.4.F.1		P,TR			
Product Test Reports	13 3419 1.4.F.2		P,TR			
Source Quality-Control Reports	13 3419 1.4.F.3		P			

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Field Quality-Control Reports	13 3419 1.4.F.4		P			
Manufacturer's installation instructions	13 3419 1.4.G		P,II			
Special procedures: Surveys: Show final elevations and locations of major members. Indicate discrepancies between actual installation and the Subcontract Documents. Have surveyor who performed surveys certify their accuracy	13 3419 1.4.H.1		P			
Qualification Data: For qualified [erector] [manufacturer] [professional engineer] [land surveyor] [testing agency].	13 3419 1.4.I		P			
Sustainable Design: Manufacturer's Certificate	13 3419 1.5.A		P,CT			
Sustainable Design: Sustainable Sites Certificates	13 3419 1.5.A.1		P,CT			
Sustainable Design: Materials Resources Certificates	13 3419 1.5.A.2		P,CT			
Sustainable Design: Indoor Air Quality Certificates	13 3419 1.5.A.3		P,CT			
Sustainable Design: Product Cost Data: Cost of products to verify compliance with Project sustainable design requirements. Exclude cost of labor and equipment to install products	13 3419 1.5.B.1		P			
Maintenance Data: for metal panel finishes, to include in maintenance manuals	13 3419 1.6.A	At Closeout	P,OM			
Warranties: Normal and special warranties	13 3419 1.6.B	At Closeout	WA			
Catalog data	13 3425 1.3.A.1	X	P			
Manufacturer's installation instructions.	13 3425 1.3.A.2		P			
Samples of manufacturer's standard range of colors	13 3425 1.3.A.3		S,P			
Shop drawings	13 3425 1.3.A.4		D			
Test reports	13 3425 1.3.A.5		P			
Catalog Data: Submit catalog data for each type of product specified. Include information substantiating equivalent corrosion resistance to zinc coated steel of alternative treatment, finish, or inherent material characteristic	13 4800 1.4.A	X	P,CD			
Certifications	13 4800 1.4.B		P,CT			
Shop Drawings: Templates, and erection and installation details as appropriate for listed Items. Ensure details are complete, to include indication of metal thickness, type, grade, class, and dimensions. Show construction details, reinforcement, anchorage and installation with relation to building construction.	13 4800 1.4.C		D			

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Documentation: Project Record Documents to include actual layout of supports / braces, specified certifications, and field test reports of anchorage installation	13 4800 1.5.A	At Closeout	RD,P,D			
Catalog data: Signal and operating features	14 2413 1.3.B.1	X	P			
Cab dimensions, layout and components	14 2413 1.3.B.2		P			
Cab and hoistway doors and frames.	14 2413 1.3.B.3		P			
Electrical characteristics	14 2413 1.3.B.4		P			
Two samples, at least 2 inches square.	14 2413 1.3.C		(2)S			
Shop drawings: Motor & pump	14 2413 1.3.D.1		D			
Shop drawings: car	14 2413 1.3.D.2		D			
Shop drawings: rail bracket	14 2413 1.3.D.3		D			
Shop drawings: weight of components.	14 2413 1.3.D.4		D			
Shop drawings: loads	14 2413 1.3.D.5		D			
Shop drawings: clearances	14 2413 1.3.D.6		D			
Shop drawings: components	14 2413 1.3.D.7		D			
Shop drawings: connections for car light and telephone.	14 2413 1.3.D.8		D			
Shop drawings: locations and sizes of access doors, doors and frames.	14 2413 1.3.D.9		D			
Shop drawings: expected heat dissipation of elevator equipment	14 2413 1.3.D.10		D			
Shop drawings: applicable seismic design data	14 2413 1.3.D.11		D			
Shop drawings: electrical characteristics	14 2413 1.3.D.12		D			
Shop drawings: Show arrangement of equipment	14 2413 1.3.D.13		D			
Shop drawings: cab and hoist way door and frame details.	14 2413 1.3.D.14		D			
Shop drawings: interface with building security system.	14 2413 1.3.D.15		D			
Operation and Maintenance Data:	14 2413 1.3.E					
Include a parts catalog	14 2413 1.3.E.1		P			
Technical information	14 2413 1.3.E.2		P			
Legible schematic of hydraulic piping and wiring diagrams	14 2413 1.3.E.3		P			
List of all of the elevator equipment with a description	14 2413 1.3.E.4		P, PH			
Complete sequence of operation and control	14 2413 1.3.E.5		P			
List with the name of the manufacturer	14 2413 1.3.E.6		P			
The manuals shall be the property of LANL	14 2413 1.3.E.7					

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1 copy of master electric and hydraulic schematic and 1 copy of lubrication chart, each framed with clear plastic, mounted on machine room wall.	14 2413 1.3.E.8		(1)P, (1)P			
Test reports from independent elevator inspector per PART 3, Field Quality Control.	14 2413 1.3.F		P			
Catalog data: Signal and operating features	14 2423 1.3.B.1	X	P			
Catalog data: Cab dimensions, layout and components	14 2423 1.3.B.2	X	P			
Catalog data: Cab and hoistway doors and frames.	14 2423 1.3.B.3	X	P			
Catalog data: Electrical characteristics	14 2423 1.3.B.4	X	P			
Two samples, at least 2 inches square	14 2423 1.3.C		(2)S			
Shop drawings: Motor and hydraulic pump	14 2423 1.3.D.1		SD			
Shop drawings: Car, machine beams, guide rails, buffers	14 2423 1.3.D.2		SD			
Shop drawings: rail bracket spacing	14 2423 1.3.D.3		SD			
Shop drawings: individual weight of components	14 2423 1.3.D.4		SD			
Shop drawings: loads	14 2423 1.3.D.5		SD			
Shop drawings: clearances and overtravel of car.	14 2423 1.3.D.6		SD			
Shop drawings: location of components in machine room.	14 2423 1.3.D.7		SD			
Shop drawings: locations in hoistway and machine room of connections for car light and telephone.	14 2423 1.3.D.8		SD			
Shop drawings: locations and sizes.	14 2423 1.3.D.9		SD			
Shop drawings: expected heat dissipation of elevator equipment	14 2423 1.3.D.10		SD			
Shop drawings: applicable seismic design data	14 2423 1.3.D.11		SD			
Shop drawings: electrical characteristics	14 2423 1.3.D.12		SD			
Shop drawings: Show arrangement of equipment in machine room	14 2423 1.3.D.13		SD			
Shop drawings: cab and hoist way door and frame details.	14 2423 1.3.D.14		SD			
Shop drawings: interface with building security system.	14 2423 1.3.D.15		SD			
Operation and Maintenance Data:	14 2423 1.3.E					
Include a parts catalog	14 2423 1.3.E.1		P			
Technical information	14 2423 1.3.E.2		P			
Legible schematic of hydraulic piping and wiring diagrams	14 2423 1.3.E.3		P			
List of all of the elevator equipment with a description, a picture, and a current part number.	14 2423 1.3.E.4		P, PH			
Complete sequence of operation and control of the elevator system	14 2423 1.3.E.5		P			
List with the name of the manufacturer	14 2423 1.3.E.6		P			
The manuals shall be the property of LANL	14 2423 1.3.E.7		O			

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1 copy of master electric and hydraulic schematic and 1 copy of lubrication chart, each framed with clear plastic, mounted on machine room wall.	14 2423 1.3.E.8		(1)P, (1)P			
Test reports from independent elevator inspector	14 2423 1.3.F		P			
Hydraulic Calculations with shop drawings.	21 1313 1.4.B		P, D			
Calculate demand point for each system	21 1313 1.4.B.1		P			
Include in calculations elevation differences	21 1313 1.4.B.2		P			
The following preliminary flow data is provided to the Subcontractor for bidding purposes	21 1313 1.4.B.3		P			
Base system design on actual flow information provided by LANL.	21 1313 1.4.B.4	Z	P			
Calculations, prepared in accordance with LANL AP-341-605 or equivalent, that demonstrate compliance with 1.3.B.	21 1313 1.4.C.1		P,CA			
Seismic Calculations: prepared in accordance with LANL AP-341-605 or equivalent, that demonstrate compliance with 1.3.B.	21 1313 1.4.C.2		P, EM		Y	
Drawings, prepared in accordance with the LANL Drafting Standard, that convey the design to the constructor.	21 1313 1.4.C.3		D			
Items a – c (above) shall be stamped and sealed by a PE licensed in the state of NM.	21 1313 1.4.C.4					
Catalog Data with selected options marked.	21 1313 1.4.D	X	P,CD			
Certifications for welders	21 1313 1.4.E		P			
Installation Instructions	21 1313 1.4.F	W	P,II			
Materials Part List (Bill of Materials)	21 1313 1.4.G		P			
Shop Drawings	21 1313 1.4.H		SD			
Show information required by NFPA 13,	21 1313 1.4.H.1		D			
Base working plans on actual survey of existing conditions	21 1313 1.4.H.2		D			
Show hydraulic reference points and remote areas.	21 1313 1.4.H.3		P			
Test Reports	21 1313 1.4.I		P,TR			
Operation and Maintenance Manual:	21 1313 1.4.J		P			
Include in operation and maintenance manuals, instructions, description of system, routine maintenance	21 1313 1.4.J.1		P			
Also include in instructions, possible malfunctions	21 1313 1.4.J.2		P			
Describe function of each component or subassembly.	21 1313 1.4.J.3		P			
List recommended spare parts	21 1313 1.4.J.4		P			
Project Record Drawings (As-Built) on CD's and prints reflecting as-built conditions	21 1313 1.4.K		EM			

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Base as-built drawings on actual survey of the completed installation.	21 1313 1.4.K.1		D			
Include notes on all special systems or devices	21 1313 1.4.K.2		P			
Provide revised hydraulic calculations	21 1313 1.4.K.3		P			
Hydraulic Calculations prepared in accordance with NFPA 13	21 1316 1.4.B		P,D			
Calculate demand point for each system	21 1316 1.4.B.1		P,CA			
Include in calculations elevation differences	21 1316 1.4.B.2		P			
The following preliminary flow data is provided to the Subcontractor for bidding purposes	21 1316 1.4.B.3					
Base system design on actual flow information provided by LANL.	21 1316 1.4.B.4					
Calculations prepared in accordance with LANL AP-341-605, that demonstrate compliance with 1.3.B.	21 1316 1.4.C.1		P,CA			
Drawings prepared in accordance with the LANL Drafting Manual that convey the design to the constructor	21 1316 1.4.C.2		P,D			
Test and Inspection Plan, prepared in accordance with LANL ESM Chapter 16, as necessary / applicable.	21 1316 1.4.C.3		P			
Items 1-3 above shall be stamped and sealed by a PE licensed by New Mexico.	21 1316 1.4.C.4					
Catalog Data with selected options marked.	21 1316 1.4.D	X	P,CD			
Certifications for welders	21 1316 1.4.E		P,CT			
Installation Instructions.	21 1316 1.4.F	W	P,II			
Materials Part List (Bill of Materials)	21 1316 1.4.G		P			
Shop Drawings	21 1316 1.4.H		SD			
Show information required by NFPA 13.	21 1316 1.4.H.1		D			
Base working plans on actual survey of existing conditions	21 1316 1.4.H.2		D			
Show hydraulic reference points and remote areas	21 1316 1.4.H.3		D			
Test Reports	21 1316 1.4.I		P,TR			
Operation and Maintenance Manual: Submit system description	21 1316 1.4.J		P			
Include in operation and maintenance manuals, instructions, description of system installed.	21 1316 1.4.J.1		P			
Also include in instructions, possible malfunctions	21 1316 1.4.J.2		P			
Describe function of each component	21 1316 1.4.J.3		P			
List recommended spare parts	21 1316 1.4.J.4		P			
Project Record Drawings (as-builts) on CD's and prints reflecting as-built conditions	21 1316 1.4.K		P, EM			
Base as-built drawings on actual survey of the completed installation	21 1316 1.4.K.1		D			
Include notes on all special systems or devices	21 1316 1.4.K.2		P			

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	21 1316 1.4.K.3		P			
Revised hydraulic calculations						
The project manager shall be responsible for submission of as-built plans and calculations to the LANL Records office in accordance with Section 01 7700 Closeout Procedures and Section 01 7839 Project Record Documents.	21 1316 1.4.K.4		P,D			
Hydraulic Calculations prepared in accordance with NFPA 13.	21 1319 1.4.B		P,D			
Calculate demand point for each system	21 1319 1.4.B.1					
Include in calculations elevation differences	21 1319 1.4.B.2		P			
The following preliminary flow data is provided to the Subcontractor for bidding purposes	21 1319 1.4.B.3		P			
Base system design on actual flow information provided by the LANL.	21 1319 1.4.B.4					
Calculations prepared in accordance with LANL AP-341-605 that demonstrate compliance with 1.3.B	21 1319 1.4.C.1		P,CA			
Drawings prepared in accordance with the LANL Drafting Manual that convey the design to the constructor	21 1319 1.4.C.2		D			
Test and Inspection Plan, prepared in accordance with LANL ESM Chapter 16, as necessary / applicable	21 1319 1.4.C.3		P			
Items 1-3 above shall be stamped and sealed by a PE licensed by New Mexico.	21 1319 1.4.C.4					
Catalog Data with selected options marked	21 1319 1.4.D	X	P			
Certifications for welders in accordance with NFPA 13	21 1319 1.4.E		CT			
Installation Instruction	21 1319 1.4.F	#30 W	P,II			
Materials Part List (Bill of Materials)	21 1319 1.4.G		P,ML			
Shop Drawings P	21 1319 1.4.H		D			
Show information required by NFPA 13.	21 1319 1.4.H.1		D			
Base working plans on actual survey of existing conditions.	21 1319 1.4.H.2					
Show hydraulic reference points and remote areas.	21 1319 1.4.H.3					
Test Reports	21 1319 1.4.I		P,TR			
Operation and Maintenance Manual: Submit system description, inspection and Subcontractor's material and test certificates	21 1319 1.4.J.		P			
Include in operation and maintenance manuals, instructions, description of system.	21 1319 1.4.J.1		P			
Also include in instructions, possible malfunctions	21 1319 1.4.J.2		P			
Describe function of each component or subassembly	21 1319 1.4.J.3		P			
Recommended spare parts	21 1319 1.4.J.4		P			
Project Record Drawings (As-Built) on CD's and prints indicating as-built conditions	21 1319 1.4.K		EM			

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Base as-built drawings on actual survey of the completed installation.	21 1319 1.4.K.1		D			
Include notes on all special systems or devices	21 1319 1.4.K.2		P			
Revised hydraulic calculations	21 1319 1.4.K.3		P			
The Project manager shall be responsible for submission of as-built plans to the LANL Records office in accordance with Section 01 7700 Closeout Procedures and Section 01 7839 Project Record Documents.	21 1319 1.4.K.4					
Hydraulic Calculations prepared in accordance with NFPA 13.	21 1326 1.3.B		P,D			
Calculate demand point for each system.	21 1326 1.3.B.1		P,CA			
Include in calculations elevation differences.	21 1326 1.3.B.2		P,CA			
The following preliminary flow data is provided to the Subcontractor for bidding purposes	21 1326 1.3.B.3		P			
Base system design on actual flow information provided by the LANL.	21 1326 1.3.B.4		P			
Calculations, prepared in accordance with LANL AP-341-605, that demonstrate compliance with 1.3.B above.	21 1326 1.3.C.1		P,CA			
Drawings, prepared in accordance with the LANL Drafting Manual, that convey the design to the constructor	21 1326 1.3.C.2		EM			
Test and Inspection Plan, prepared in accordance with LANL ESM Chapter 16, as necessary / applicable.	21 1326 1.3.C.3		P			
Items 1-3 above shall be stamped and sealed by a PE licensed by New Mexico.	21 1326 1.3.C.4					
Catalog Data with selected options marked	21 1326 1.3.D	X	P			
Certifications for welders in accordance with NFPA 13	21 1326 1.3.E		P			
Installation Instruction	21 1326 1.3.F	W	P			
Materials Part List (Bill of Materials)	21 1326 1.3.G		P			
Shop Drawings	21 1326 1.3.H		D			
Show information required by NFPA 13	21 1326 1.3.H.1		P			
Base working plans on actual survey of existing conditions.	21 1326 1.3.H.2					
Show hydraulic reference points and remote areas.	21 1326 1.3.H.3		P			
Test Reports	21 1326 1.3.I		P			
Operation and Maintenance Manual	21 1326 1.3.J.		P			
Include in operation and maintenance manuals, instructions, description of system installed	21 1326 1.3.J.1		P			
Also include in instructions, possible malfunctions	21 1326 1.3.J.2		P			
Describe function of each component or subassembly	21 1326 1.3.J.3		P			
Recommended spare parts	21 1326 1.3.J.4		P			

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	Project Record Drawings (As-Built) on CD's and prints indicating as-built conditions	21 1326 1.3.K		D, EM			
	Base as-built drawings on actual survey of the completed installation.	21 1326 1.3.K.1		D, EM			
	Include notes on all special systems or devices	21 1326 1.3.K.2		D, EM			
	Revised hydraulic calculations	21 1326 1.3.K.3		D, EM			
	The project manager shall be responsible for submission of as-built plans to the LANL Records office in accordance with Section 01 7700 Closeout Procedures and Section 01 7839 Project Record Documents.	21 1326 1.3.K.4					
	Hydraulic Calculations prepared in accordance with NFPA 13 and 16.	21 1339 1.3.B		P,D			
	Base pipe size adjustment on maximum variation of 15 percent above specified discharge rate	21 1339 1.3.B.1					
	Calculate demand point for each system	21 1339 1.3.B.2		P,CA			
	Include in calculations elevation differences.	21 1339 1.3.B.3		P			
	The following preliminary flow data is provided to the Subcontractor for bidding purposes	21 1339 1.3.B.4	Z	CA			
	Base system design on actual flow information provided by the LANL.	21 1339 1.3.B.5	Z				
	Calculations, prepared in accordance with LANL AP-341-605 that demonstrate compliance with 1.3B.	21 1339 1.3.C.1		P,CA			
	Drawings, prepared in accordance with the LANL Drafting Manual, that convey the design to the constructor.	21 1339 1.3.C.2		P,D			
	Test and Inspection Plan, prepared in accordance with LANL ESM Chapter 16 as necessary/applicable.	21 1339 1.3.C.3		P			
	Items 1-3 above shall be stamped and sealed by a PE licensed by New Mexico.	21 1339 1.3.C.4					
	Catalog Data	21 1339 1.3.D	X	P,CD			
	Certifications for welders in accordance with NFPA 13	21 1339 1.3.E		P,CT			
	Installation Instruction	21 1339 1.3.F		P,II			
	Materials Part List (Bill of Materials)	21 1339 1.3.G		P,ML			
	Shop Drawings	21 1339 1.3.H		SD			
	Show information required by NFPA 13	21 1339 1.3.H.1		D			
	Base working plans on actual survey of existing conditions.	21 1339 1.3.H.2					
	Show hydraulic reference points and remote areas.	21 1339 1.3.H.3					
	Test Reports	21 1339 1.3.I		P,TR			
	Operation and Maintenance Manual: system description,	21 1339 1.3.J.		P			
	Include in operation and maintenance manuals, instructions, description of system installed,	21 1339 1.3.J.1		P,OM			
	Also include in instructions, possible malfunctions	21 1339 1.3.J.2		P			

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Describe function of each component or subassembly	21 1339 1.3.J.3		P			
Recommended spare parts	21 1339 1.3.J.4		P			
Project Record Drawings (As-Built) on CD's and prints indicating as-built conditions	21 1339 1.3.K		D,EM			
Base as-built drawings on actual survey of the completed installation.	21 1339 1.3.K.1		D,EM			
Include notes on all special systems or devices	21 1339 1.3.K.2		D,EM			
Revised hydraulic calculations	21 1339 1.3.K.3		P,CA			
Recommended spare parts	21 1339 1.3.K.4		P			
The project manager shall be responsible for submission of as-built plans to the LANL Records Office (TA-63-121) in accordance with Section 01 7700 for Closeout Procedures and Section 01 7839 for Project Record Documents.	21 1339 1.3.K.5					
Product data	21 2200 1.3.B		P			
Extinguishing-agent containers	21 2200 1.3.B.1		P			
Extinguishing agent	21 2200 1.3.B.2		P			
Discharge nozzles	21 2200 1.3.B.3		P			
Control Panels	21 2200 1.3.B.4		P			
Detection devices	21 2200 1.3.B.5		P			
Manual-release stations	21 2200 1.3.B.6		P			
Switches	21 2200 1.3.B.7		P			
Alarm devices	21 2200 1.3.B.8		P			
Shop Drawings	21 2200 1.3.C		D			
Layout drawings	21 2200 1.3.C.1		D			
Auxiliary details and information	21 2200 1.3.C.2		D			
Separate layouts or drawings for mechanical and electrical work.	21 2200 1.3.C.3		D			
Separate layout or drawings showing isometric details	21 2200 1.3.C.4		D			
Electrical layout drawings.	21 2200 1.3.C.5		D			
Complete hydraulic flow calculations from a UL-listed computer program.	21 2200 1.3.C.6		P, EM			
Drawings, calculations, and system component data sheets for approval before starting construction.	21 2200 1.3.C.7	#30 W	P,D		Y	
If seismic protection applies, then include: Seismic Calculations:	21 2200 1.3.D	#30 W	P			
Calculations based on a dynamic analysis certified by a registered professional engineer	21 2200 1.3.D.1	#30 W	P			
Qualifications of dynamic analyst and documentation of computer software systems	21 2200 1.3.D.2	#30 W	P, EM		Y	

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Catalog Data with selected options noted	21 2200 1.3.E	X	P,CD			
Materials Part List (Bill of Materials)	21 2200 1.3.F		P			
Test Reports	21 2200 1.3.G		P			
Operation and Maintenance Manual:	21 2200 1.3.H		P			
Include in operation and maintenance manuals, instructions	21 2200 1.3.H.1		P			
Also include in instructions, possible malfunctions	21 2200 1.3.H.2		P			
Describe function of each component or subassembly.	21 2200 1.3.H.3		P			
Project Record Drawings (As-Built): Provide updated shop drawings on CDs and prints reflecting as-built conditions	21 2200 1.3.I		D,EM			
Base as-built drawings on actual survey of the completed installation.	21 2200 1.3.I.1		D, EM			
Include notes on all special systems or devices	21 2200 1.3.I.2		P,EM			
Recommended spare parts	21 2200 1.3.I.3		P			
Catalog data of hangers and supports	22 0529 1.2A.1	X	P			
Shop Drawings showing system layout with location including critical dimensions, sizes, and pipe hanger and support locations and detail of trapeze hangers.	22 0529 1.2A.2		SD			
Manufacturer's installation instruction for special procedures and assembly of components if required.	22 0529 1.2A.3	W	P,II			
Certification of offsite welders and qualified welding procedure per Section 01 4444 (follow 01 4455 for onsite work).	22 0529 1.2A.4		P,CT			
Catalog Data: Submit catalog data for heater cable, thermostat, controls, fittings, indicator light, and pipe markers	22 0535 1.2.A.1		P,CD			
Shop Drawings: composite wiring and/or schematic diagrams of the complete system as proposed to be installed (standard diagrams will not be acceptable). Include the following:	22 0535 1.2.A.2		D			
Actual location length, routing, and rating of each heating cable.	22 0535 1.2.A.2.a		P,D			
Location of branch circuit connections, including conductor size and overcurrent rating recommended for each branch circuit.	22 0535 1.2.A.2.b		P,D			
Location of terminations, thermostats, pipe markers, etc.	22 0535 1.2.A.2.c		P			
Expected current draw of each heating cable (Data to be used in conjunction with system acceptance test).	22 0535 1.2.A.2.d		P			
Bill of materials	22 0535 1.2.A.2.e		P			

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Installation Instructions Indicate application conditions and limitations of use stipulated by Product testing agency specified under Regulatory Requirements. Include instructions for storage, handling, protection, examination, installation, and starting of Product.	22 0535 1.2.A.3	W	P,II			
Operation and Maintenance Instructions	22 0535 1.2.A.4		P,OM			
Warranty: Provide a 3-year parts warranty, on materials and workmanship, and 1-year labor warranty beginning on the date of acceptance by LANL. This warranty is in addition to, and not a limitation of, other rights and remedies LANL may have under the Subcontract Documents.	22 0535 1.2.A.5		P,WA			
Records of inspections, tests, and adjustments described under FIELD QUALITY CONTROL.	22 0535 1.2.A.6		P			
Catalog data for each type of product specified	22 0548 1.5.B		P			
Materials List: Hanger and support schedule showing manufacturer's figure number, size, spacing, features, and application for each required type of hanger, support, sleeve, seal, and fastener to be used	22 0548 1.6.C		P,ML			
Shop drawings showing details	22 0548 1.6.D		D			
Boilers and furnaces	22 0548 1.6.D.1		D			
Storage Tanks	22 0548 1.6.D.2		D			
Water heaters	22 0548 1.6.D.3		D			
Expansion Air separator tanks	22 0548 1.6.D.4		D			
Valves and fittings for piping	22 0548 1.6.D.5		D			
Heat exchangers	22 0548 1.6.D.6		D			
Steam-fed Kitchen Appliances	22 0548 1.6.D.7		D			
Water chiller units	22 0548 1.6.D.8		D			
Thermal storage units	22 0548 1.6.D.9		D			
Cooling Towers	22 0548 1.6.D.10		D			
Air and Refrigerant Compressors	22 0548 1.6.D.11		D			
Refrigerant Piping	22 0548 1.6.D.12		D			
Air Handling Units	22 0548 1.6.D.13		D			
Pumps with Motors	22 0548 1.6.D.14		D			
Lab Scrubbers	22 0548 1.6.D.15		D			
Large Commercial Dryers	22 0548 1.6.D.16		D			
Pollution Control Equipment	22 0548 1.6.D.17		D			

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Gas Dryers	22 0548 1.6.D.18		D			
Ducts	22 0548 1.6.D.19		D			
Flash tanks	22 0548 1.6.D.20		D			
Unit heaters	22 0548 1.6.D.21		D			
Accumulator tank	22 0548 1.6.D.22		D			
Exhaust and Return Fans	22 0548 1.6.D.23		D			
Solar Heating Units	22 0548 1.6.D.24		D			
Fuel Piping Outside of Buildings	22 0548 1.6.D.25		D			
All Water Supply Systems	22 0548 1.6.D.26		D			
Storm and Sanitary Sewer Systems	22 0548 1.6.D.27		D			
All Process Piping	22 0548 1.6.D.28		D			
Pneumatic Tube Distribution System	22 0548 1.6.D.29		D			
Cold Storage Refrigeration Systems	22 0548 1.6.D.30		D			
Condenser Water Piping Outside the Building	22 0548 1.6.D.31		D			
Chilled Water Distribution Systems	22 0548 1.6.D.32		D			
Heat Distribution Systems	22 0548 1.6.D.33		D			
All Piping Inside the Building	22 0548 1.6.D.34		D			
[]	22 0548 1.6.D.35					
Certifications	22 0548 1.6.E	Z	P			
Catalog data	22 0554 1.4.1	X	P			
Installation instructions	22 0554 1.4.2		P			
Catalog data: Product description, thermal characteristics and list of materials and thickness for each service, and location.	22 0713 1.2.A.1		P,CD			
Manufacturer's Installation Instructions	22 0713 1.2.A.2	W	P,II			
Pneumatic test plan for approval that includes:	22 0813 1.3.A.1		D		Y	
Material of construction	22 0813 1.3.A.1.a					
Design pressure	22 0813 1.3.A.1.b					
Test pressure and duration of test	22 0813 1.3.A.1.c					
Test medium and method	22 0813 1.3.A.1.d					
Certification on calibration	22 0813 1.3.A.1.e					
Method to exclude personnel from the area.	22 0813 1.3.A.1.f					
Over pressurization protection/prevention	22 0813 1.3.A.1.g					
Test reports	22 0813 1.3.A.2	#10	P,TR			

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N/A	22 0816					
Catalog data	22 1100 1.2.A.1	X	P,CD			
shop drawings showing pump type, capacity, certified pump curves showing pump performance characteristics with pump and system operating point plotted. Include NPSH curve when applicable. Include electrical characteristics and connection requirements.	22 1100 1.2.A.2		SD			
Installation instructions	22 1100 1.2.A.3	W	P,II			
Catalog data	22 1316 1.2.A.1	X	P,CD			
Manufacturer's Instructions	22 1316 1.2.A.2		P,II			
Certifications of welders	22 1316 1.2.A.3		P,CT			
Catalog data	22 1343.16 1.3.A.1	X	P			
Pump curves	22 1343.16 1.3.A.2		P			
Operation and maintenance data	22 1343.16 1.3.A.3		P			
Theory of operation	22 1343.16 1.3.A.3.a		P			
Test procedure	22 1343.16 1.3.A.3.b		P			
Operating procedures	22 1343.16 1.3.A.3.c		P			
Maintenance requirements	22 1343.16 1.3.A.3.d		P			
Warranties	22 1343.16 1.3.A.4		P			
Catalog data	22 1413 1.2.A.1	X	P,CD			
Installation instructions	22 1413 1.2.A.2		P,II			
Certifications of welders	22 1413 1.2.A.3		P,CT			
Catalog data	22 1500 1.2.A.1	X	P,CD			
Installation Instructions	22 1500 1.2.A.2		P,II			
Materials/Parts list	22 1500 1.2.A.3		P,ML			
Operational and maintenance data	22 1500 1.2.A.4		P,OM			
Warranties	22 1500 1.2.A.5		P,WA			
Certification of welders and qualified welding procedure per Section [01 4444] [and] [01 4455].	22 1500 1.2.A.6		P,CT			
Welding inspection reports	22 1500 1.2.A.7	Z	P			
Product Data	22 4200 1.2.A.	X	S,P			
Manufacturer's Installation Instructions.	22 4200 1.2.B	W	P,II			
Manufacturer's Certificate	22 4200 1.2.C		P,CT			
Contract Closeout	22 4200 1.3.A	At closeout	P			
Operation and Maintenance Data	22 4200 1.3.B	At closeout	P			

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			P		Y	
Date of expiration of AABC or NEBB certification	23 0593 1.4.A.1	W	P		Y	
TAB instruments that are to be used and calibration dates	23 0593 1.4.A.2	W	P		Y	
Proposed TAB procedures, together with the TAB schematic drawings and Report Forms, for review.	23 0593 1.4.A.3		P		Y	
Field Reports indicating deficiencies preventing proper testing, adjusting, and balancing of systems and equipment to achieve specified performance.	23 0593 1.4.A.4		P		Y	
Draft copies of test report for review prior to final acceptance TAB test result.	23 0593 1.4.A.5	#30 W	P		Y	
Final test reports	23 0593 1.4.A.6	W	P		Y	
Catalog data on pipe materials,	23 1123 1.2.A.1	X	P,CD			
Certification of welders	23 1123 1.2.A.2		P,CT			
Catalog data on pipe materials.	23 2113 1.2.A.1	X	P,CD			
Installation instructions	23 2113 1.2.A.2		P,II			
Welding PROCEDURES AND QUALIFICATIONS.	23 2113 1.2.A.3		P			
Certifications OF WELDERS AND QUALIFIED WELDING PROCEDURES PER SECTION [01 4444] [AND] [01 4455].	23 2113 1.2.A.3		P,CT			
Catalog data on pipe, pipe fittings, and valves	23 2213 1.2.A.1		P			
Certification of welders.	23 2213 1.2.A.2		P			
Catalog data on pipe materials, pipe fittings, valves, and piping specialties specified including electrical characteristics and connection requirements.	23 2215 1.2.A.1		P,CD			
Product description, model, dimensions, component/service sizes, rough-in requirements, and finishes.	23 2215 1.2.A.2		P			
Manufacturer's catalog information with valve data and rating for each service	23 2215 1.2.A.3		P			
Certification of welders.	23 2215 1.2.A.4		P,CT			
Catalog data of specialties specified.	23 2217 1.2.A.1		P			
Installation instructions	23 2217 1.2.A.2	W	P			
Operating and maintenance data	23 2217 1.2.A.3		P			
Catalog data: pipe materials,	23 2300 1.2.A.1.a	X	P			
Catalog data: Refrigerant Specialties	23 2300 1.2.A.1.b	X	P			
Manufacturer's Installation Instructions	23 2300 1.2.A.2	#30 W	P,II			
Operations and Maintenance Manual: operation and maintenance instructions for refrigerant specialties	23 2300 1.2.A.3		P,OM			

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	23 2300 1.2.A.4		P,CT			
Certification of welders						
Catalog data of flushing and chemical water treatment	23 2500 1.5.A.1	X	P,CD			
Shop Drawings indicating system schematic, equipment locations, and controls schematics, electrical characteristics and connection requirements.	23 2500 1.5.A.2		SD			
Manufacturer's Installation Instructions showing placement of equipment in systems, piping configuration, and connection requirements.	23 2500 1.5.A.3	#30 U	P,II		Y	
Manufacturer's Certification of products to meet or exceed specified requirements.	23 2500 1.5.A.4		P,CT			
Operation and Maintenance data on equipment, procedures, and treatment program	23 2500 1.5.A.5		P,OM			
Material list of all chemicals to be used.	23 2500 1.5.A.6		P			
Manufacturer's Field Reports: Indicate start-up of treatment systems when completed and operating properly. Indicate analysis of system water after cleaning and after treatment.	23 2500 1.5.A.7		P			
Catalog data for duct materials,	23 3100 1.3.A.1	X	P			
Shop drawings indicating duct layout	23 3100 1.3.A.2		SD			
Test Reports indicating pressure tests performed	23 3100 1.3.A.3		P,TR			
Catalog data for duct materials, flexible duct/connectors, sealing materials.	23 3101 1.2.A.1	X	P,CD			
Shop drawings indicating duct layout with pressure classification and sizes, fittings, hangers and supports, [seismic restraints], seam and joint construction, connections to equipment such as coils, etc., for pressure class ducts [] inches and greater.	23 3101 1.2.A.2		SD			
Test Reports indicating pressure tests performed. Include date, section tested, test pressure, and leakage rate, following SMACNA HVAC Air Duct Leakage Test Manual.	23 3101 1.2.A.3		P,TR			
Certificates showing conformance with the applicable standards for ductwork materials, brazing materials, mill-rolled reinforcing and supporting materials, welding procedures, shop test procedures and reports.	23 3101 1.2.A.4		P,CT			
Certification of welders and qualified welding procedure per Section [01 4444] [and] [01 4455].	23 3101 1.2.A.5		P,CT			
Filters	23 3225 1.3.A.1					
Catalog data indication the filter efficiency	23 3225 1.3.A.1.a		P			
Installation instructions	23 3225 1.3.A.1.b	W	P			
Filter train	23 3225 1.3.A.2					

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Catalog data	23 3225 1.3.A.2.a	X	P,CD			
Certifications	23 3225 1.3.A.2.b		P,CT			
Installation requirements	23 3225 1.3.A.2.c		P			
Materials/ part lists.	23 3225 1.3.A.2.d		P			
Shop drawings	23 3225 1.3.A.2.e		D			
Test report of pressure decay leak test for the entire housing and each sub assembly	23 3225 1.3.A.2.f		P,TR			
Warranties	23 3225 1.3.A.2.g	Z	P,WA			
Product data	23 3300 1.2.A		P			
Shop drawings	23 3300 1.2.B		D			
Damper schedule	23 3300 1.2.C		ML			
Installation instructions	23 3300 1.2.D		II			
CoCs	23 3300 1.2.E		CT			
Welder certs	23 3300 1.2.F		CT			
LEED submittal	23 3300 1.2.G		P			
Product data	23 3816 1.5.B	X	P			
Catalog or manufacturer's data	23 3816 1.5.B.1	X	P			
Materials/parts list	23 3816 1.5.B.2		P			
Shop drawings	23 3816 1.5.C		D			
Shop drawings	23 3816 1.5.C.1		D			
Wiring Diagrams	23 3816 1.5.C.2		D			
Samples	23 3816 1.5.D	X	S			
Hood interior lining	23 3816 1.5.D.1		S			
Hood enclosure	23 3816 1.5.D.2		SC			
Work surfaces	23 3816 1.5.D.3		S			
Other pre-finished equipment	23 3816 1.5.D.4		S			
Operation signs	23 3816 1.5.D.5		S			
Penetration portal sample with grommet [include only when specified].	23 3816 1.5.D.6		S			
Test Reports and Certificates	23 3816 1.5.E		TR,CT			
Certification (CoC or other equivalent document)	23 3816 1.5.E.1		P			
UL Standards for Safety listing	23 3816 1.5.E.2		P			
Test reports	23 3816 1.5.E.3		TR			
Certification	23 3816 1.5.E.4		CT			

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Test report	23 3816 1.5.E.5		TR			
Manufacturer's instructions	23 3816 1.5.F	W	P			
Manufacturer's installation and assembly instructions	23 3816 1.5.F.1	W	P,II			
Written instructions	23 3816 1.5.F.2		P			
Submit in accordance with Sections Exh I and 01 7700	23 3816 1.5.G.1	Closeout	P			
ASME AG-1, Section FC HEPA Filters	23 4133 1.6.B					
Certification documentation	23 4133 1.6.B.1		P-CT			
COC that is signed or otherwise authenticated	23 4133 1.6.B.2					
Copy of the HEPA filter manufacturer's QA plan	23 4133 1.6.B.2.a		P		Y	
Statement that the products are constructed in accordance with the requirements	23 4133 1.6.B.2.b		P			
Qualification and Acceptance Test reports.	23 4133 1.6.B.2.c		P			
Purchased item identified by model number.	23 4133 1.6.B.2.d		P			
Purchase Order (PO) number.	23 4133 1.6.B.2.e		P			
Any approved changes, waivers, or deviations from this specification.	23 4133 1.6.B.2.f		P			
Warranty documentation	23 4133 1.6.B.3		P			
Auxiliary HEPA Filters: Certificate of Conformance	23 4133 1.6.C.1		CT			
Copy of the HEPA filter manufacturer's QA plan	23 4133 1.6.C.1.a		P		Y	
Certification	23 4133 1.6.C.1.b		P			
Certification documentation	23 4133 1.6.C.1.c		P			
Certification that all custom-built filter housings meet requirements	23 4133 1.6.C.1.d		P			
Purchased item identified by model number	23 4133 1.6.C.1.e		P			
Statement	23 4133 1.6.C.1.f		P			
Purchase Order (PO) number	23 4133 1.6.C.1.g		P			
Any approved changes, waivers, or deviations from this specification	23 4133 1.6.C.1.h		P			
Installation Instructions	23 4133 1.6.C.2	#30 W	II			
Warranty documentation	23 4133 1.6.C.3	Z	P			
Catalog data	23 6509 1.3.A.1	X	P			
Certifications	23 6509 1.3.A.2		P			
Installation instructions	23 6509 1.3.A.3	W	II			
Performance curves	23 6509 1.3.A.4		P			
Operations and maintenance data.	23 6509 1.3.A.5		P			
Warranties	23 6509 1.3.A.6		P			

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Shop drawings	23 6509 1.3.A.7		D			
Catalog data	23 6511 1.3.A.1	X	P			
Certifications	23 6511 1.3.A.2		P			
Installation instructions.	23 6511 1.3.A.3	W	II			
Performance curves	23 6511 1.3.A.4		P			
Operations and maintenance data	23 6511 1.3.A.5		P			
Warranties	23 6511 1.3.A.6		P			
Shop drawings	23 6511 1.3.A.7		D			
Shop Drawings, the following:	23 7413 1.2.B		D			
Assembly drawings showing unit dimensions, weight loading, required clearances, construction details, field connection details, and electrical characteristics and connection requirements.	23 7413 1.2.B.1		D			
Product data	23 7413 1.2.C	X	P			
Published Literature indicating cooling and heating capacities, ratings, gages, finishes of materials, electrical characteristics and connection requirements, controls, and accessories.	23 7413 1.2.C.1		P			
Data for filter media, filter performance data, filter assembly, and filter frames.	23 7413 1.2.C.2		P			
Performance and fan curves with specified operating point plotted, power, RPM.	23 7413 1.2.C.3		P,D,PD			
Sound Power Level Data: Fan outlet and casing radiation at rated capacity.	23 7413 1.2.C.4		P			
Dampers: Include leakage, pressure drop, and sample calibration curves. Indicate materials, construction, dimensions, and installation details.	23 7413 1.2.C.5		P			
Electrical requirements	23 7413 1.2.C.6		P			
Test Reports Submit results of factory test at [time of unit shipment]	23 7413 1.2.D	S	TR			
Manufacturer's Installation Instructions	23 7413 1.2.E	W	P-II			
Manufacturer's Certificate	23 7413 1.2.F		CT			
Manufacturer's Field Reports:	23 7413 1.2.G		P			
Operations and maintenance data	23 7413 1.2.H		P,OM			
With Bid: BAS system manufacturer and subcontract information	25 5000 1.3.A.1		P			
Submittals	25 5000 1.3.A.2	#30 W	P,D		Y	
Shop drawings shall be provided that show detailed communications	25 5000 1.3.A.2.a		P,D,EM		Y	
Electrical Ladder Diagrams	25 5000 1.3.A.2.a.i		D			

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The sequence of operation	25 5000 1.3.A.2.a.ii		P			
A complete material listing shall be included	25 5000 1.3.A.2.a.iii	X	P			
Catalog data sheets shall be provided for each different piece of equipment	25 5000 1.3.A.2.b	X	P			
Point verification and sensor calibration forms shall be submitted for all points and sensors that are installed as part of the BAS.	25 5000 1.3.A.2.c		P		Y	
All graphic slides proposed for use on this project shall be submitted for review and approval.	25 5000 1.3.A.2.d		P		Y	
Software development parameters	25 5000 1.3.A.2.e	Z	P			
Report templates	25 5000 1.3.A.2.e.i		EM			
Blank forms shall be submitted for completion of password information by the LANL STR.	25 5000 1.3.A.2.e.ii				Y	
Blank schedule forms for each air-handling unit shall be submitted for completion by the LANL STR.	25 5000 1.3.A.2.e.iii		P		Y	
Provide detailed operation sequences	25 5000 1.3.A.2.f		P			
N/A	26 0513					
Catalog Data	26 0519 1.5.A.1	X	CD			
Catalog Data for grounding conductors	26 0526 1.3.A.1	X	P			
Shop Drawings: for signal reference grid fabrication and installation.	26 0526 1.3.A.2		D			
Project Record Documents: to include specified certifications and field test reports of installed grounding systems	26 0526 1.3.A.3		P			
Catalog Data: for each type of product specified.	26 0529 1.5.B	X	P			
Shop Drawings: showing details	26 0529 1.5.C		D			
manufacturer's certification of compliance	26 0529 1.5.D		P			
Catalog Data: describing floor boxes.	26 0533 1.2.A.1	Z	P			
Catalog Data: describing surface metal raceway.	26 0533 1.2.A.2	Z	P			
Catalog Data: describing wireway.	26 0533 1.2.A.3	Z	P			
Catalog Data: manufacturer's data	26 0536 1.3.A.1.a		P			
manufacturer's data on smoke seal and fire stop products	26 0536 1.3.A.1.b		P			
Test Reports: results of tests performed or witnessed	26 0536 1.3.A.2		TR			
Shop Drawings: Detail fabrication and installation of cable tray	26 0536 1.3.A.3		D			
Installation Instructions: Indicate application conditions and limitations of use	26 0536 1.3.A.4		II			

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Certification Submit certification and backup information that cable tray systems with I_p greater than 1.0 can perform required functions after a design earthquake as specified in "SERVICE CONDITIONS" below. Refer to Section 26 0548 – <i>Vibration and Seismic Controls for Electrical Systems</i>	26 0536 1.3.A.5		CT			
Catalog Data: for each product.	26 0553 1.3.A.1	X	P			
electrical identification schedule	26 0553 1.3.A.2		P			
Samples: [two] samples of each type of printed identification products applicable to project.	26 0553 1.3.A.3.a		(2)S			
Samples: [two] nameplates illustrating materials and engraving quality	26 0553 1.3.A.3.b		(2)S			
Manufacturer's Installation Instructions	26 0553 1.3.A.4		II			
Catalog Data for each motor furnished loose	26 0700 1.4.A.1	X	P			
Calculations on motor selection	26 0700 1.4.A.2		P			
Certification that motors meet specified performance, efficiency, and selection requirements	26 0700 1.4.A.3		P			
Test Reports: Indicate procedures and results	26 0700 1.4.A.4		P			
Installation instructions	26 0700 1.4.A.5		P			
Operation data including instructions for safe operating procedures	26 0700 1.4.A.6.a		P			
Maintenance data including assembly drawings	26 0700 1.4.A.6.b		P			
Project record documents: Report of field tests	26 0700 1.4.A.7.a	Z	P			
Project record documents: Start-up report from motor manufacturer's service	26 0700 1.4.A.7.b	Z	P			
Certifications: name and qualifications of the ETA	26 0813 1.5.A.1		P			
Certifications: quality assurance program of the ETA	26 0813 1.5.A.2		P			
Certifications: instrument calibration program of the ETA	26 0813 1.5.A.3		P			
Certifications: electrical safety program of the ETA	26 0813 1.5.A.4		P			
Certifications: name and qualifications of the lead engineer or engineering technician performing the required testing services.	26 0813 1.5.A.5		P			
Test Plans: acceptance and system functions test plan for each item of equipment or system to be field tested at least 45 days prior to planned testing date.	26 0813 1.5.A.6	#45 U	P		Y	
Test Reports: certified copies of inspection reports, test reports, and system function tests.	26 0813 1.5.A.7	#10	O			
Calculations: certified copies of power system studies listed below.	26 0813 1.5.A.8		O,P,EM			
Final short circuit study	26 0813 1.5.A.8.a					
Final coordination study	26 0813 1.5.A.8.b					

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Arc-flash hazard analysis	26 0813 1.5.A.8.c					
Load flow study	26 0813 1.5.A.8.d					
Stability study	26 0813 1.5.A.8.e					
Harmonic analysis	26 0813 1.5.A.8.f					
Catalog Data.	26 2213 1.3.B	X	P,CD			
Certifications signed by manufacturers	26 2213 1.3.C		CT			
Operation and maintenance instructions	26 2213 1.3.D		P			
the following according to the provisions of Exhibit I and 01 7700, Closeout Procedures	26 2300 1.2.A	@Closeout				
Catalog data showing compliance with specified requirements	26 2300 1.2.B		P,CD			
Certification and backup information that low-voltage switchgear can perform required functions after a design earthquake as specified in "SERVICE CONDITIONS"	26 2300 1.2.C		P,CT			
Certification by manufacturer's field technical representative that the subcontractor has installed, adjusted, and tested the low-voltage switchgear according to the manufacturer's recommendations.	26 2300 1.2.D		P,CT		Y	
Installation instructions indicating application conditions and limitations of use stipulated by Product testing agency specified under Quality Assurance. Include instructions for storage, handling, protection, examination, installation, and starting of Product, including equipment anchoring requirements to meet the seismic conditions specified in "SERVICE CONDITIONS".	26 2300 1.2.E	#30 W	P,II			
Operations and Maintenance Instructions including step-by-step inspection and maintenance test procedures and a listing of recommended spare parts. Include instructions for testing circuit breakers. [Include a test procedure for the modified differential ground fault system using high current injection equipment	26 2300 1.2.F		D			
Performance Data/Curves including time-current curves for each circuit breaker	26 2300 1.2.G		PD			
Master drawing index.	26 2300 1.2.H.1		D			
Front views and plan view of the assembly.	26 2300 1.2.H.2		D			
Single line or three line diagrams.	26 2300 1.2.H.3		D			
Nameplate schedule	26 2300 1.2.H.4		D			
Component lists.	26 2300 1.2.H.5		D			
Conduit space locations within the assembly.	26 2300 1.2.H.6		D			

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Busway entry location and details	26 2300 1.2.H.7	Z	D			
Assembly ratings	26 2300 1.2.H.8		D			
Major component ratings	26 2300 1.2.H.9		D			
Cable terminal sizes	26 2300 1.2.H.10		D			
Shipping splits	26 2300 1.2.H.11	Z	D			
Enclosure type with details for types other than NEMA Type 1.	26 2300 1.2.H.12	Z	D			
Bus configuration and current ratings	26 2300 1.2.H.13	Z	D			
Features, characteristics , ratings, and factory settings of individual protective devices and auxiliary components	26 2300 1.2.H.14	Z	D			
Key interlock scheme drawing and sequence of operations	26 2300 1.2.H.15	Z	D			
Connection details between close-coupled assemblies	26 2300 1.2.H.16		D			
Composite front view and plan of close coupled assemblies	26 2300 1.2.H.17		D			
Description of the main-tie-main automatic throw-over system to include components and operating sequences	26 2300 1.2.H.18		D			
Certified production test reports.	26 2300 1.2.I		P,CT,TR			
Letter indicating that manufacturer will issue a one year commercial warranty	26 2300 1.2.J		P		Y	
Wiring Diagrams including detailed schematic wiring diagrams including device identifications and numbered terminals for power, control, communications and instrumentation systems, and differentiating between manufacturer-installed and field-installed wiring. [Include a wiring diagram of the modified differential ground fault system.]	26 2300 1.2.K		P			
Calculations	26 2413 1.2.A.1		P,CA			
Catalog Data: describing each type	26 2413 1.2.A.2	X	P,CD			
Certification: certification and backup information	26 2413 1.2.A.3		P,CT			
Switchboards certified by the manufacturer to withstand the total lateral seismic force	26 2413 1.2.A.3.a		P,CT			
Manufacturer's certification based on shake table testing or experience data	26 2413 1.2.A.3.b		P,CT			
Required response spectra	26 2413 1.2.A.3.c		P			
Certification: by manufacturer's field technical representative	26 2413 1.2.A.4		P,CT			
Installation Instructions: Indicate application conditions and limitations of use	26 2413 1.2.A.5		P,II			
Operation and maintenance instructions	26 2413 1.2.A.6		P,OM			
Time-current curves for each circuit breaker	26 2413 1.2.A.7		P			
Shop drawings for each switchboard Include the following:	26 2413 1.2.A.8		SD			

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Front, side, and plan view of the switchboards.	26 2413 1.2.A.8.a		D			
Single line or three line diagrams.	26 2413 1.2.A.8.b		D			
Nameplate schedule	26 2413 1.2.A.8.c		D			
Component lists.	26 2413 1.2.A.8.d		D			
Conduit entry locations	26 2413 1.2.A.8.e		D			
Busway entry locations and details	26 2413 1.2.A.8.f		D			
Switchboard ratings	26 2413 1.2.A.8.g		D			
Major component ratings including voltage, current, and interrupting.	26 2413 1.2.A.8.h		D			
Cable terminal sizes and types	26 2413 1.2.A.8.i		D			
Shipping splits	26 2413 1.2.A.8.j		D			
Enclosure type with details for types other than NEMA Type 1	26 2413 1.2.A.8.k		D			
Bus configuration and current ratings.	26 2413 1.2.A.8.l		D			
Features, characteristics, ratings, and factory settings	26 2413 1.2.A.8.m		D			
Key interlock scheme drawing and sequence of operations	26 2413 1.2.A.8.n	Z	D			
Results of factory production tests	26 2413 1.2.A.9	Z	P			
Warranty: Letter indicating that manufacturer will issue a one year commercial warranty against defects in material or workmanship when the University has received inspected and accepted the equipment	26 2413 1.2.A.10		P,WA			
Detailed schematic wiring diagrams	26 2413 1.2.A.11		D			
Catalog data describing each type	26 2416 1.2.A.		P			
Catalog Data	26 2416 1.2.A.1	X	P,CD			
Certification	26 2416 1.2.A.2		P,CT			
Shop drawings for each panelboard	26 2416 1.2.A.3		SD			
Enclosure type with details for types	26 2416 1.2.A.2.a		D			
Bus configuration and current ratings	26 2416 1.2.A.2.b		D			
Short-circuit current rating of panelboard	26 2416 1.2.A.2.c		D			
Features, characteristics, ratings, and factory settings	26 2416 1.2.A.2.d		D			
Detailed schematic wiring diagrams	26 2416 1.2.A.4		D			
Installation Instructions	26 2416 1.2.A.5	#30 W	P,II			
Operation and Maintenance Instructions	26 2416 1.2.A.6		P,OM			

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	Catalog Data: manufacturer's descriptive literature describing each MCC. Include data substantiating that materials comply with specified requirements including a full description of the arc-resistant design features	26 2419 1.2.A.1	Z	P,CD			
	Shop drawings for each MCC	26 2419 1.2.A.2		SD			
	Wiring Diagrams	26 2419 1.2.A.3		D			
	MCC designation	26 2419 1.2.A.4.a	Z	P			
	Certification based on shake table testing or experience data	26 2419 1.2.A.4.b	Z	P			
	Required response spectra	26 2419 1.2.A.4.c	Z	P			
	Certification: by manufacturer's field technical representative that the subcontractor has installed, adjusted, and tested each MCC according to the manufacturer's recommendations	26 2419 1.2.A.5		P,CT			
	Installation Instructions	26 2419 1.2.A.6	#30 W	P,II			
	Operations and maintenance instructions	26 2419 1.2.A.7		P,OM			
	Complete operation and maintenance instructions	26 2419 1.2.A.7.a		P,OM			
	Include the manufacturer's name, and brief description of equipment and its basic operational features.	26 2419 1.2.A.7.b		P,OM			
	Test and Inspection Records: Records of inspections, tests, and adjustments performed under FIELD QUALITY CONTROL	26 2419 1.2.A.8		P,TR			
	Catalog Data: manufacturer's descriptive and technical literature describing each type of enclosed bus assembly, fitting, bus plug-in device, and accessory item. Include data substantiating that materials and equipment comply with specified requirements	26 2500 1.2.A.1		P,CD			
	Shop Drawings: For each type of enclosed bus assembly:	26 2500 1.2.A.2		SD			
	Fabrication and installation details for enclosed bus assemblies	26 2500 1.2.A.2.a		D			
	Show fittings, materials, fabrication, and installation methods	26 2500 1.2.A.2.b		D			
	Indicate required clearances	26 2500 1.2.A.2.c		D			
	Details	26 2500 1.2.A.2.d		D			
	Submit seismic-restraint details	26 2500 1.2.A.2.e		D			
	Wiring Diagrams: Submit power wiring diagram showing	26 2500 1.2.A.3		D			
	Coordination Drawings	26 2500 1.2.A.4					
	Vertical and horizontal enclosed bus-assembly runs, offsets, and transitions	26 2500 1.2.A.4.a		D			
	Clearances for access	26 2500 1.2.A.4.b		D			
	Vertical elevation	26 2500 1.2.A.4.c		D			

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Support locations	26 2500 1.2.A.4.d		D			
Location of adjacent construction elements	26 2500 1.2.A.4.e		D			
Certification	26 2500 1.2.A.5		P,CT			
Enclosed bus assemblies	26 2500 1.2.A.5.a		P			
Certification based on shake table testing or experience data	26 2500 1.2.A.5.b		P,CT			
Certification: certification and backup information that enclosed bus assemblies with I_p greater than 1.0 can perform required functions after a design earthquake as specified in "SERVICE CONDITIONS" below. Refer to Section 26 0548 – <i>Vibration and Seismic Controls for Electrical Systems</i>	26 2500 1.2.A.5		P,CT			
Certification: by manufacturer's field technical representative	26 2500 1.2.A.6		P,CT			
Installation Instructions: Indicate application conditions and limitations of use	26 2500 1.2.A.7	W	P,II			
Operation and Maintenance Instructions:	26 2500 1.2.A.8		P,OM			
Test reports	26 2500 1.2.A.9		P,TR			
Catalog data and manufacturer's technical data	26 2713 1.3.A.1	X	P,CD			
Installation instructions indicating application conditions and limitations of use	26 2713 1.3.A.2	W	P			
Shop drawing of installation	26 2713 1.3.A.3		SD			
Wiring diagram	26 2713 1.3.A.4		D			
Operation and maintenance instructions	26 2713 1.3.A.5		P			
Product data	26 2726 1.2.A.1	X	P			
Manufacturer's technical data for each	26 2816 1.2.A.1	X	P,CD			
Installation Instructions: Indicate application conditions and limitations of use	26 2816 1.2.A.2	#30 W	P,II			
Certification Submit certification and backup information that safety switches and enclosed circuit breakers can perform required functions after a design earthquake as specified in "SERVICE CONDITIONS" below	26 2816 1.2.A.3		P,CT			
Safety switches and enclosed circuit breakers designated with I_p greater than 1.0 shall be certified by the manufacturer to withstand the total lateral seismic force and seismic relative displacements specified in the <i>International Building Code (IBC)</i> or <i>ASCE 7 – Minimum Design Loads for Buildings and Other Structures</i>	26 2816 1.2.A.3.a		P,CT			

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Manufacturer's certification shall be based on shake table testing or experience data (i.e., historical data demonstrating acceptable seismic performance), or by more rigorous analysis providing for equivalent safety	26 2816 1.2.A3.b		P,CT			
Required response spectra shall exceed 1.1 times the in-structure spectra determined in accordance with IBC AC156 – <i>Acceptance Criteria for Seismic Qualification by Shake-Table Testing of Nonstructural Components and Systems.</i>	26 2816 1.2.A3.c		P,CT			
Catalog data: manufacturer's technical data	26 2913 1.2.A.1		P			
Wiring diagram	26 2913 1.2.A.2		D			
Installation instructions: Indicate application conditions and limitations of use	26 2913 1.2.A.3		P			
Operation and maintenance instructions	26 2913 1.2.A.4		P,OM			
Catalog Data: catalog data describing each type of AFC.	26 2923 1.3.A.1	X	P,CD			
Calculations	26 2923 1.3.A.2		P,CA			
Shop Drawings: shop drawings for each AFC	26 2923 1.3.A.3		SD			
Installation Instructions: Indicate application conditions and limitations of use.	26 2923 1.3.A.4	W	P,II			
Operation and Maintenance Instructions	26 2923 1.3.A.5		P,OM			
Test Reports: results of required factory tests.	26 2923 1.3.A.6		P,TR			
Warranty	26 2923 1.3.A.7		P,WA			
Submit battery sizing calculations	26 3353 1.2.A.1.a		P,CA			
Submit UPS selection calculations	26 3353 1.2.A.1.b		P,CA			
Submit coordination study for UPS prepared in accordance with IEEE Std 242	26 3353 1.2.A.1.c		P			
Catalog Data: manufacturer's descriptive and technical literature	26 3353 1.2.A.2	X	P,CD			
Certification	26 3353 1.2.A.3		P,CT			
UPS designation	26 3353 1.2.A.3.a		P			
Manufacturer's certification based on shake table testing or experience data	26 3353 1.2.A.3.b		P,CT			
Required response spectra	26 3353 1.2.A.3.c		P			
Certification	26 3353 1.2.A.4		P,CT			
Installation Instructions: Indicate application conditions and limitations of use	26 3353 1.2.A.5	W	P			
complete operation and maintenance instructions	26 3353 1.2.A.6.a		P,OM			
Include the manufacturer's name, and brief description of equipment and its basic operational features.	26 3353 1.2.A.6.b		P			

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Include the most probable failures and the appropriate repairs.	26 3353 1.2.A.6.c		P			
Provide spare parts data for each different item of material and equipment specified.	26 3353 1.2.A.6.d		P			
Lesson plans and training manuals for the training phases.	26 3353 1.2.A.6.e		P			
Shop Drawings: shop drawings for each UPS	26 3353 1.2.A.7					
Front, side, and plan view of the UPSs	26 3353 1.2.A.7.a		D			
Single line or three line diagrams.	26 3353 1.2.A.7.b		D			
Namplate schedule.	26 3353 1.2.A.7.c		D			
Component lists	26 3353 1.2.A.7.d		D			
Conduit entry locations.	26 3353 1.2.A.7.e		D			
UPS ratings including short circuit, voltage, and current.	26 3353 1.2.A.7.f		D			
Major component ratings including voltage, current, and interrupting	26 3353 1.2.A.7.g		D			
Cable terminal sizes and types	26 3353 1.2.A.7.h		D			
Shipping splits	26 3353 1.2.A.7.i		D			
Bus configuration and current ratings.	26 3353 1.2.A.7.j		D			
Features, characteristics, ratings, and factory settings	26 3353 1.2.A.7.k		D			
Test Reports: Submit results of factory production tests specified in NEMA PE 1.	26 3353 1.2.A.8	Z	TR			
Detailed description of proposed factory test and field test procedures	26 3353 1.2.A.8.a	#60, U	P			
Factory and field test reports in booklet form	26 3353 1.2.A.8.b		O,P			
Wiring Diagrams: detailed schematic wiring diagrams	26 3353 1.2.A.9		D			
Catalog data for each component of the lightning protection system.	26 4100 1.4.A.1		P			
Certifications demonstrating that firms meet qualifications specified in "Quality Assurance" Article.	26 4100 1.4.A.2		P			
Materials list of lightning protection system components	26 4100 1.4.A.3		P			
Shop drawings	26 4100 1.4.A.4		SD			
Project record documents.	26 4100 1.4.A.5		P			
Test reports for all inspection and testing required by this Section	26 4100 1.4.A.6		P			
Catalog data for each component of the lightning protection system.	26 4115 1.4.A.1		P			
Certifications demonstrating that firms meet qualifications specified in "Quality Assurance" article.	26 4115 1.4.A.2		P			
Materials list of lightning protection system components	26 4115 1.4.A.3		P			
Shop drawings	26 4115 1.4.A.4		SD			
Project record documents	26 4115 1.4.A.5		P			
Test reports for all inspection and testing required by this Section.	26 4115 1.4.A.6	Z	P-TR			

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Catalog data describing surge protective devices.	26 4123 1.3.B		P			
Catalog data describing surge protective devices.	26 4313 1.3.B		P			
Catalog data describing luminaires, lamps, and ballasts.	26 5100 1.2.A.1		P,CD			
Performance Curves/Data:	26 5100 1.2.A.2		P,PD			
Certified photometric data for each type of luminaire	26 5100 1.3.A.2.a		P,PD			
Supply-air, return-air, heat-removal, and sound performance data for air handling luminaires	26 5100 1.3.A.2.b		P,PD			
Shop drawings for non-standard luminaires.	26 5100 1.3.A.3		D			
Warranties for luminaries and for electronic ballasts.	26 5100 1.3.A.4		P,WA			
Maintenance instructions	26 5100 1.3.A.5		P			
Catalog data describing emergency lighting.	26 5200 1.2.A.1		P,CD			
Performance Curves/Data:	26 5200 1.2.A.2		P,PD			
Warranties for emergency lighting units	26 5200 1.2.A.3		P,WA			
Maintenance Instructions	26 5200 1.2.A.4		P			
Catalog Data	26 5600 1.5.A.1	X	P,CD			
Performance Curves/Data	26 5600 1.5.A.2		P,PD			
Shop Drawings	26 5600 1.5.A.3		SD			
Maintenance Data	26 5600 1.5.A.4		P			
Warranties	26 5600 1.5.A.5		P,WA			
Certifications of the qualifications of the Category 6A UTP horizontal cable	27 1000 1.6.A	#30 (W)	P			
Detailed records of cable routing	27 1000 1.6.B		P			
Provide test reports.	27 1000 1.6.C		P,TR			
Certifications of the qualifications of the fiber-optic cable installers.	27 1500.18 1.6.A.1	#30 (W)	P,CT			
Detailed as-built documents	27 1500.18 1.6.A.2	W	D		Y	
As-built records of cable routing	27 1500.18 1.6.A.3		D			
Catalog data	27 3000 1.4.A.1	X	P,CD			
Wiring diagram	27 3000 1.4.A.2		D			
Calculations	27 3000 1.4.A.3		P,CA			
Proposed programming	27 3000 1.4.A.4		P			
As-built documents	27 3000 1.4.A.5		P,D			
As-built records	27 3000 1.4.A.6		P,D			
Test and inspection report for the completed installation.	27 3000 1.4.A.7		P,II			

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Test Reports	28 0528 1.5.A.1		P,TR			
As-Built Drawings	28 0528 1.5.A.2		D			
Catalog Data: manufacturer's data	28 1321 1.5.A.1		P			
Test Reports: Provide inspection and test reports	28 1321 1.5.A.2		P,TR			
As-Built Drawings	28 1321 1.5.A.3		P,D			
Calculations: The following calculations	28 3100 1.4.A.1	#30 W	CA			
System battery capacity calcs	28 3100 1.4.A.1.a	#30 W	P,CA			
Audible signal distribution calcs	28 3100 1.4.A.1.b	#30 W	P,CA			
Voltage drop calculations	28 3100 1.4.A.1.c	#30 W	P,CA			
Final battery capacity calculations and final voltage drop calculations at least one week prior to final system acceptance test	28 3100 1.4.A.1.d	#14	P			
Catalog Data	28 3100 1.4.A.2	#30 W	P,CD			
Certifications: as follows:	28 3100 1.4.A.3		CT			
Certifications of the qualifications of the fire alarm installing firm	28 3100 1.4.A.3.a	#30	P,CT			
Certifications of the qualifications of the fire alarm system technician	28 3100 1.4.A.3.b	#30	P,CT			
Certification from the fire alarm control manufacturer	28 3100 1.4.A.3.c		P,CT			
"Record of Completion" and associated documentation	28 3100 1.4.A.3.d		P			
Installation instructions	28 3100 1.4.A.4	#30 W	P,II			
Materials and parts list	28 3100 1.4.A.5	#30 W	P,SD			
System shop drawings as follows:	28 3100 1.4.A.6		SD			
Prepare floor plan drawings using a minimum scale of 1/8" - 1'0" for plans and 1/4" = 1'-0" for details.	28 3100 1.4.A.6.a		D			
Hand lettering	28 3100 1.4.A.6.b	Z	D			
Show all locations	28 3100 1.4.A.6.c		D			
Show layout of the FCP	28 3100 1.4.A.6.d		D			
Shop drawings at least 30 days prior to scheduled start date.	28 3100 1.4.A.6.e	#30 W	D		Y	
Final shop drawings	28 3100 1.4.A.6.f	#7	D			
FCP Program: Submit FCP program as follows:	28 3100 1.4.A.7					
FCP input/output matrix and a copy of the proposed FCP program	28 3100 1.4.A.7.a	#30	P			
Final FCP input/output matrix and the final FCP program	28 3100 1.4.A.7.b	#14	P			
Test Reports: as follows:	28 3100 1.4.A.8		TR			
Report of the pre-final tests	28 3100 1.4.A.8.a		P,TR			
Test plan for the final acceptance tests	28 3100 1.4.A.8.b	#30	P,TR			

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Report of final acceptance tests according to requirements	28 3100 1.4.A.8.c		P			
Terminal-to-terminal wiring diagrams	28 3100 1.4.A.9.a		D			
Final wiring diagrams	28 3100 1.4.A.9.c	#7	D			
Operating and maintenance data.	28 3100 1.4.A.10		P,OM			
Operating and instruction manuals	28 3100 1.4.A.10.a	W	P			
Project-specific operating and maintenance instruction manuals	28 3100 1.4.A.10.b		(5)P			
Instructions for replacing any components of the system	28 3100 1.4.A.10.b.i		P			
Recommended spare parts	28 3100 1.4.A.10.b.ii		P			
Instructions for periodic cleaning and adjustment of equipment	28 3100 1.4.A.10.b.iii		P			
Complete list of all equipment and components with information	28 3100 1.4.A.10.b.iv		P			
Operating instructions	28 3100 1.4.A.10.c		P			
Submit project record documents as follows:	28 3100 1.4.A.11		RD			
Updated shop drawings reflecting as-built conditions showing the work completed under this Section.	28 3100 1.4.A.11.a		SD,D			
Updated shop drawings on Mylar reproducible media and on electronic media in AutoCAD "*.dxf" or "*.dwg" format.	28 3100 1.4.A.11.b		D,EM			
Warranties	28 3100 1.4.A.12		P,WA			
The following calculations	28 3110 1.3.A.1	#30 W	P,CA			
System battery capacity calculations	28 3110 1.3.A.1.a		P,CA			
Audible signal distribution calculations	28 3110 1.3.A.1.b		P,CA			
Voltage drop calculations	28 3110 1.3.A.1.c		P,CA			
Catalog data at least 30 days prior to scheduled start of installation	28 3110 1.3.A.2	#30 W	P,CD			
Certifications of the qualifications of the fire alarm installing firm	28 3110 1.3.A.3.a	#30	P,CT			
Certifications of the qualifications of the fire alarm system technician	28 3110 1.3.A.3.b	#30	P,CT			
Certification from the fire alarm control manufacturer	28 3110 1.3.A.3.c		P,CT			
"Certificate of Completion" and associated documentation	28 3110 1.3.A.3.d		P,CT			
Installation instructions	28 3110 1.3.A.4	#30 W	P,II			
Materials and parts lists	28 3110 1.3.A.5	#30 W	P			
Shop drawings as follows:	28 3110 1.3.A.6		SD			
Floor plan drawings using a minimum scale of 1/8" = 1'-0" for plans and 1/4" = 1'-0" for details	28 3110 1.3.A.6.a		D			
Hand lettering	28 3110 1.3.A.6.b		D			

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Show location of FACP, fire alarm appliances, conduit layout, quantity and type of wires in each conduit, and interface with other systems	28 3110 1.3.A.6.c		D			
Show layout of the FACP	28 3110 1.3.A.6.d		D			
Shop drawings	28 3110 1.3.A.6.e	#30 W	D			
Report of the pre-final tests	28 3110 1.3.A.7.a		P			
Test plan for the final acceptance tests	28 3110 1.3.A.7.b	#30	P			
Report of final acceptance test	28 3110 1.3.A.7.c		P			
Terminal-to-terminal wiring diagrams	28 3110 1.3.A.8.a		D			
Wiring diagrams	28 3110 1.3.A.8.b	#30 W	D			
Operating and maintenance data.	28 3110 1.3.A.9		P			
Project Record Documents	28 3110 1.3.A.10.a		P,RD			
Project Record Documents: Provide the updated shop drawings	28 3110 1.3.A.10.b		D,EM,RD			
Warranties	28 3110 1.3.A.11		P,WA			
Certifications from an independent testing laboratory	31 2000 1.4.A.1		P,CT			
Certifications from an independent testing laboratory	31 2000 1.4.A.2		P,CT			
Test reports of field-testing Material compaction	31 2000 1.4.A.3		P,TR			
Test reports of field-testing of tracing wire continuity	31 2000 1.4.A.4		P,TR			
Catalog data on identification tape and tracing wire	31 2000 1.4.A.5	X	P,CD			
Material certifications	31 2323.33 1.3.A.1		P,CT			
Provide design mixes and test reports.	31 2323.33 1.3.A.3		ML, TR			
Batch tickets.	31 2323.33 1.3.A.2		P			
Field test reports.	31 2323.33 1.3.A.4		P,TR			
Injection points installation records	31 3200 1.3.A.1		P			
Grouting reports	31 3200 1.3.A.2		P			
Mix proportions	31 3200 1.3.A.3		P			
Mix proportions as noted	31 4300 1.3.A.1		P			
Material certifications	32 1216 1.2.A.1		P,CT			
Proposed design mix	32 1216 1.2.A.2		P			
Laboratory test reports for design mix for bituminous pavement.	32 1216 1.2.A.3		P-TR			
Traffic analysis, vehicle loadings, and structural design.	32 1216 1.2.A.4		P			
Detailed plan for permanent traffic control	32 1216 1.2.A.5		P,D			
Catalog data on fabric, posts, accessories, fittings, and hardware	32 3100 1.3.A.1	X	P,CD			

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Catalog data.	32 3113 1.3.A.1	X	P,CD			
Copies of batch tickets for each load of concrete.	32 3113 1.3.A.2		(2)P			
Catalog data for all equipment	32 8400 1.3.A.1	X	P,CD			
Installation instructions	32 8400 1.3.A.2	W	P,II			
Operating and maintenance manual	32 8400 1.3.A.3		P,OM			
Prepare a zone chart for each controller	32 8400 1.3.A.3.a		D,P			
Irrigation plan	32 8400 1.3.A.4		D			
Record Drawing	32 8400 1.3.A.5	Z	D			
Catalog data	32 9219 1.3.A.1	X	P,CD			
Certification: certified seed bag tags and copies of seed invoices identified by project name.	32 9219 1.3.A.2		S,P,CT			
Installation instructions	32 9219 1.3.A.3	W	P,II		Y	
Sod certification	32 9223 1.2.A.1		P			
Sodding schedule	32 9223 1.2.A.2		P			
Sample of materials	32 9223 1.2.A.3	X	S		Y	
Installation Instructions	32 9300 1.3.A.1	W	P,II		Y(Z)	
Materials list	32 9300 1.3.A.2		P			
Catalog data	32 9300 1.3.A.3		P,CD			
Certifications	33 0513 1.4.A.1		P,CT			
NMED approved septic tank list certification number	33 0513 1.4.A.2		P,CT			
Level alarm system product data and installation instructions	33 0513 1.4.A.3		P,II			
Manhole exfiltration test results	33 0513 1.4.A.4	Within 5 working days of successful test	P,TR			
Catalog data	33 1000 1.4.A.1	X	P,CD			
Installation instructions	33 1000 1.4.A.2		P,II			
Existing system pressure calculations	33 1000 1.4.A.3		P			
Certification of welders and qualified welding procedure	33 1000 1.4.A.4		P,CT			
Horizontal Direction Drilling.	33 1000 1.4.A.5		P			
Tracing wire continuity test report	33 1000 1.4.A.6		P,TR			
Catalog data on identification tape and tracing wire	33 1000 1.4.A.7	X	P,CD			
Catalog data	33 3000 1.3.A.1	X	P,CD			
Certifications	33 3000 1.3.A.2		P,CT			
Horizontal Directional Drilling.	33 3000 1.3.A.3		P			

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	33 3000 1.3.A.4		P,TR			
Tracing wire continuity test report						
	33 3200 1.3.A.1	X	P,CD			
Catalog data						
	33 3200 1.3.A.2		P		Y	
Power and Control cables						
	33 3200 1.3.A.3		P		Y	
Pump curves						
	33 3200 1.3.A.3.a		P,OM			
Operation and maintenance data						
	33 3200 1.3.A.3.b		P			
Theory of operation						
	33 3200 1.3.A.4		P		Y	
Test procedure						
	33 3200 1.3.A.5		P,WA		Y	
Warranties						
	33 4000 1.3.A.1	X	P,CD			
Catalog data						
	33 4000 1.3.A.2		P,II			
Installation instructions for accessories						
	33 4000 1.3.A.3		P,CT			
Certifications of welders						
	33 5100 1.4.A.1	X	P,CD		Y	
Catalog data of pipe materials						
	33 5100 1.4.A.2		P		Y	
Certified material inspection report for pipe						
	33 5100 1.4.A.3		P,CT		Y	
Certification of welders and qualified welding procedure						
	33 5100 1.4.A.4		P		Y	
Certified Welding Inspector (CWI) inspection report						
	33 5100 1.4.A.5		P		Y	
horizontal directional Drilling						
	33 5100 1.4.A.6		P		Y	
Pipe pigging inspection report						
	33 5100 1.4.A.7		P,TR		Y	
Tracing wire continuity test report						
	33 5100 1.4.A.8		P,CD			
Catalog data on identification tape and tracing wire						
	33 5100 1.4.A.9		P,CA			
Total connected natural gas load in BTU's/hr heat input requirement for each connected device (BTU's/hr), and pressure (psig) requirement at building wall						
	33 6300 1.4.A.1		P,CD		Y	
Catalog data						
	33 6300 1.4.A.2		P,CT		Y	
Certified material test report for the pipe						
	33 6300 1.4.A.3		P,CT		Y	
Certification of welders and qualified welding procedures						
	33 6300 1.4.A.4		P		Y	
Welding Process Visual Examination Report						
	33 6300 1.4.A.5		P,II		Y	
Installation instructions						
	33 6300 1.4.A.6		D		Y	
Plan and profile for steam/condensate piping system						
	33 6300 1.4.A.7		P,CA		Y	
Thermal Expansion calculation						
	33 7119 1.3.A.1	Z	P,CD			
Catalog Data						
	33 7119 1.3.A.2	Z	P,TR			
Test Reports Documents						

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	Project Record documents: Accurately record GPS-based survey locations of ductbanks, new and existing manholes, and places where ductbanks cross other underground systems.	33 7119 1.3.A.3		P			
	N/A	33 7311					
	N/A	33 7711					
	N/A	40 0511					
	N/A	40 0527					
	Certification of previous crane installations	41 2213.13 1.3.B.1		P,CT			
	Certifications for structural steel	41 2213.13 1.3.B.2		P,CT			
	Certifications for all electrical and mechanical components	41 2213.13 1.3.B.3		P,CT			
	Certification of required inspection and load testing	41 2213.13 1.3.B.4		P,CT			
	Welder certifications	41 2213.13 1.3.B.5		P,CT			
	Certificate that the crane contains no asbestos, lead paint, polychlorinated biphenyl's (PCB's), or elemental mercury. Chromates shall be avoided where feasible.	41 2213.13 1.3.B.6		P,CT			
	Product Data: Manufacturer's catalog data for all major components. The catalog cuts shall be marked-up or supplemented with additional sheets to clearly identify the model or size, selected options, features, and/or modifications to demonstrate compliance with specification requirements. Catalog cuts which show modifications beyond the standard options and all supplemental pages shall bear original signatures and dates of the equipment manufacturer's authorized representative. Each catalog cut and each supplemental sheet shall clearly identify the item to which it applies.	41 2213.13 1.3.C		P-CD			
	Manufacturer's installation instructions	41 2213.13 1.3.D		P,II			
	Performance Data	41 2213.13 1.3.E		P,PD			
	Shop drawings:	41 2213.13 1.3.F		SD			
	Structural – Drawings showing the fabrication details and list of materials for the girders, trucks, and trolleys including location and size of the structural members, all weldments, fastener joints	41 2213.13 1.3.F.1		D			
	Crane arrangement drawings (Plans, Sections and Elevations)	41 2213.13 1.3.F.2		D			
	Bridge dave and hoist arrangement drawings (Plans, Section and Elevations)	41 2213.13 1.3.F.3		D			
	Electrical drawings of the electrical equipment and wiring diagrams	41 2213.13 1.3.F.4		D			
	Design Data:	41 2213.13 1.3.G		P,CA			

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Calculations demonstrating compliance with all design requirements, and LANL Procedure AP-341-605.	41 2213.13 1.3.G.1		P,CA			
Calculations verifying compliance with Section 3 of CMAA #70 and paragraph 2.2.F.3 of this specification (Structural Design, Additional Load Combinations) for any non-commercial items.	41 2213.13 1.3.G.2.a		P,CA			
Calculations verifying design of trolley bumpers and end stops; and bridge bumpers in accordance AISE TR-06.	41 2213.13 1.3.G.2.b		P,CA			
Operation and maintenance data indicating the following:	41 2213.13 1.3.H		P,OM			
Information for authorized service facilities and parts distributor	41 2213.13 1.3.H.1		P			
Parts lists	41 2213.13 1.3.H.2		P			
Recommended spare parts	41 2213.13 1.3.H.3		P			
Lubrication requirements and acceptable substitutes	41 2213.13 1.3.H.4		P			
Maintenance requirements.	41 2213.13 1.3.H.5		P			
Safety procedures	41 2213.13 1.3.H.6		P			
Proper operation of all equipment	41 2213.13 1.3.H.7		P			
Routine maintenance procedures	41 2213.13 1.3.H.8		P			
Assembly drawings and descriptive literature.	41 2213.13 1.3.H.9		D,P			
Wiring schematics	41 2213.13 1.3.H.10		D			
Written 24 month parts and labor warranty to include:	41 2213.13 1.3.I		P,WA		Y	
warranty to include: Performance below required minimums	41 2213.13 1.3.I.1		P,WA			
warranty to include: Abnormal wear considering intensity of use	41 2213.13 1.3.I.2		P,WA			
warranty to include: Systems not maintainable or accessible for required maintenance	41 2213.13 1.3.I.3		P,WA			
warranty to include: Unsafe conditions	41 2213.13 1.3.I.4		P,WA			
warranty to include: Counterfeit parts	41 2213.13 1.3.I.5		P,WA			
Quality assurance plan	41 2225 1.5.A.1	Z	P			
Design data	41 2225 1.5.A.2		P			
Weld Procedure Specifications and Procedure Qualification Reports	41 2225 1.5.A.3	F	P			
Certification of previous hoist or trolley installations	41 2225 1.5.A.4		P,CT			
Certified Material Test Reports and Certifications for structural steel	41 2225 1.5.A.5		P,CT			
Certifications for all electrical and mechanical components	41 2225 1.5.A.6		P,CT			
Certification of required inspection and load testing	41 2225 1.5.A.7		P,CT			
Welder certifications	41 2225 1.5.A.8		P,CT			
Inspection Test Reports and inspector personnel certifications	41 2225 1.5.A.9		P,TR			

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Manufacturer's assembly, installation, maintenance, and troubleshooting instructions including:	41 2225 1.5.A.10	W	P,II			
Information for authorized service facilities and parts distributor	41 2225 1.5.A.10.a	W	P			
Parts lists	41 2225 1.5.A.10.b	W	P			
Recommended spare parts	41 2225 1.5.A.10.c	W	P			
Lubrication requirements and acceptable substitutes	41 2225 1.5.A.10.d	W	P			
Maintenance requirements and schedules for all equipment	41 2225 1.5.A.10.e	W	P			
Safety procedures	41 2225 1.5.A.10.f	W	P			
Proper operation of all equipment	41 2225 1.5.A.10.g	W	P			
Routine maintenance procedures	41 2225 1.5.A.10.h		P			
Assembly drawings and descriptive literature	41 2225 1.5.A.10.i	W	D			
Wiring schematics	41 2225 1.5.A.10.j		D			
[Shop Drawings, Catalog Cut sheets]	41 2225 1.5.A.11		SD			
Structural steel fabrication drawings	41 2225 1.5.A.11.a	F	D			
Hoist or trolley drawings (Plans, Sections and Elevations)	41 2225 1.5.A.11.b		D			
Electrical drawings (plans, sections, elevations)	41 2225 1.5.A.11.c	Z	D			
Wiring diagrams: Drawings to include the following:	41 2225 1.5.A.11.d					
Manufacturer's name	41 2225 1.5.A.11.d.1		D			
Model number	41 2225 1.5.A.11.d.2		D			
Rating	41 2225 1.5.A.11.d.3		D			
Hook-speed/hook-load curves (hoisting and lowering)	41 2225 1.5.A.11.d.4		D			
Motor-speed/ torque and current curves	41 2225 1.5.A.11.d.5		D			
Evidence of experience	41 2225 1.5.A.12		P			
Document inspections performed on the hoist or trolley systems	41 2225 1.5.A.13		P		(Y)	
Certified Material Test Reports or Certificates of Conformance	41 2225 1.5.A.14		P			
Submittal of QA plan	43 3113.37 1.5	Z				
Certificate of Conformance The Certificate of Conformance shall include:	43 3113.37 1.5.A.1		P,CT			
Copy of the filter manufacturer's QA plan	43 3113.37 1.5.A.1.a		P,CT		Y	
Certification that filters and filter housing have been designed manufactured and constructed in accordance with manufacturer's QA plan and Section 1.6	43 3113.37 1.5.A.1.b		P,CT			
Certification documentation showing that the filter meets the design requirements	43 3113.37 1.5.A.1.c		P,CT			

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Submittal No./ Submittal Description	Reference	Submittal Schedule	Submittal Type	Concurrent Review?	LANS Response Needed?	LANS' Reviewer (For LANS Use Only)
Certification that any custom built filter housing was fabricated and leak tested to meet the requirements of this specification.	43 3113.37 1.5.A.1.d		P,CT			
Purchased item identified by model number	43 3113.37 1.5.A.1.e		P			
Statement that the filter housing meets the leak test requirements	43 3113.37 1.5.A.1.f		P			
Purchase Order (PO) number	43 3113.37 1.5.A.1.g		P			
Any approved changes, waivers, or deviations from this specification	43 3113.37 1.5.A.1.h	Z	P		Y	
Installation Instructions	43 3113.37 1.5.A.2		P,II			
Warranty documentation	43 3113.37 1.5.A.3		P,WA			
Reference to LANL Project I.D. Number, LANL Subcontract Number. LANL may choose to waive some of these submittals if the Supplier has been granted prior approval by LANL for recent Subcontract submittals	43 4113 1.5.A.1		P		Y	
Design drawings, calculations, and supporting data prior to beginning pressure vessel fabrication.	43 4113 1.5.B.1	F	D,P,CA		Y	
Quality Assurance/ Quality Control	43 4113 1.5.C					
uncontrolled copy of QA manual for LANL approval.	43 4113 1.5.C.1		(1)P		Y	
Notifications	43 4113 1.5.C.2	#7	P		Y	
Lower Tier Services Plan	43 4113 1.5.C.3		P		Y	
Fabrication Schedule	43 4113 1.5.C.4		P			
Material Control Procedure	43 4113 1.5.C.5		P			
Material control procedure to be used in the execution of the work.	43 4113 1.5.C.5.a	F	P		Y	
Heat Numbers: Note heat numbers on weld maps	43 4113 1.5.C.5.b		D,P			
Fabrication Procedures: a copy of:	43 4113 1.5.C.6					
Welding Procedure Specifications (WPS)	43 4113 1.5.C.6.a		P			
Welding Procedure Qualification Record (PQR)	43 4113 1.5.C.6.b		P			
Welding & NDE Personnel Listing	43 4113 1.5.C.6.c		P			
Liquid Penetrant Test Procedure	43 4113 1.5.C.6.d		P			
Radiographic Test Procedure, and	43 4113 1.5.C.6.e		P			
Leak Test Procedure	43 4113 1.5.C.6.f		P			
Welder Performance Qualification Records	43 4113 1.5.C.7.a		P,CT			
NDE Personnel Certifications	43 4113 1.5.C.7.b		P,CT			
Material certifications for steel	43 4113 1.5.C.7.c		P,CT			
Supplier's ASME "Certificate of Compliance,"	43 4113 1.5.C.7.d		P,CT			
Test Reports: a copy of:	43 4113 1.5.C.8					

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Submittal No./ Submittal Description	Reference	Submittal Schedule	Submittal Type	Concurrent Review?	LANS Response Needed?	LANS' Reviewer (For LANS Use Only)
Liquid Penetrant Test Report	43 4113 1.5.C.8.a		P,TR			
Radiographic Test Report, and	43 4113 1.5.C.8.b		P,TR			
Hydrostatic Leak Test Report	43 4113 1.5.C.8.c		P,TR			
Shipping Submittals: a copy of	43 4113 1.5.C.9					
Supplier's vessel Cleaning Procedure	43 4113 1.5.C.9.a		P			
Supplier's Packaging Procedure	43 4113 1.5.C.9.b		P			
Bill of Lading with shipment	43 4113 1.5.C.9.c		P			
Nonconformances	43 4113 1.5.D					
Written request to LANL for any proposed technical changes.	43 4113 1.5.D.1		P		Y	
Conflicts	43 4113 1.5.D.2		P			
Ensure that any substitutions are in conformance with LANL	43 4113 1.5.D.3		P			
Warranty	43 4113 1.5.E		WA			
Reference to LANL Project ID Number, LANL Subcontract Number, Storage Tank Number, Storage Tank Title, and Drawing Number on correspondence.	43 4116 1.5.B		P			
Drawings, Calculations and Supporting Data	43 4116 1.5.B.1					
Design drawings, calculations, and supporting data prior to beginning storage tank fabrication.	43 4116 1.5.B.1.a	F	P,D,CA		Y	
Quality Assurance/Quality Control	43 4116 1.5.B.2					
Uncontrolled copy of the Supplier's QA manual for LANL approval	43 4116 1.5.B.2.a		P		Y	
Notifications	43 4116 1.5.B.2.b	#7			Y	
Lower Tier Services Plan	43 4116 1.5.B.2.c		P			
Fabrication Schedule	43 4116 1.5.B.2.d		P			
Material Control Procedure	43 4116 1.5.B.2.e		P		Y	
Welding Procedure Specifications (WPS)	43 4116 1.5.B.2.f.i		P			
Welding Procedure Qualification Record (PQR)	43 4116 1.5.B.2.f.ii		P			
Welding & NDE Personnel Listing	43 4116 1.5.B.2.f.iii		P			
Liquid Penetrant Test Procedure	43 4116 1.5.B.2.f.iv		P			
Radiographic Test Procedure	43 4116 1.5.B.2.f.v		P			
Leak Test Procedure	43 4116 1.5.B.2.f.vi		P			
Certifications: a copy of:	43 4116 1.5.B.2.g					
Welder Performance Qualification Records	43 4116 1.5.B.2.g.i		P,CT			
NDE Personnel Certifications	43 4116 1.5.B.2.g.ii		P,CT			
Material certifications	43 4116 1.5.B.2.g.iii		P,CT			

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Test Reports: a copy of:	43 4116 1.5.B.2.h					
Liquid Penetrant Test Report	43 4116 1.5.B.2.h.i		P,TR			
Radiographic Test Report.	43 4116 1.5.B.2.h.ii		P,TR			
Leak Test Report.	43 4116 1.5.B.2.h.iii		P-TR			
Shipping Submittals: a copy of:	43 4116 1.5.B.2.i					
Supplier's vessel Cleaning Procedure	43 4116 1.5.B.2.i.i		P			
Supplier's Packaging Procedure.	43 4116 1.5.B.2.i.ii		P			
Bill of Lading with the storage tank shipment.	43 4116 1.5.B.2.i.iii		P			
Nonconformances.	43 4116 1.5.B.3					
a written request.	43 4116 1.5.B.3.a	Z	P		Y	
Conflicts	43 4116 1.5.B.3.b	Z				
Warranty	43 4116 1.5.B.4		P,WA			