

## LANL Building Official

### Listing of LBO-Approved IBC Fabricators • Testing, NDE, and Inspection Agencies • Products

December 2, 2024

This listing is published pursuant to the LANL Building Code Program defined by Chapter 16 of the LANL Engineering Standards Manual (ESM, click [here](#)), which implements the International Building Code and other codes. See that program for process and restrictions.

This document includes offsite fabricator and quality related agency approvals comingled in Part A. Approved products, including concrete, are addressed in Part B.

- For approved offsite fabricators, presence in these listings is pursuant to IBC-2021 §1704.2.5, “Special inspection of fabricated items,” and §1704.2.5.1.
- For approved quality agencies, presence in these listings is necessary for performance of code-related work for LANL or its contractors and subcontractors, per IBC-2021 §1703 and the ESM.

Disclaimer: Listed providers and products have received LBO approval within the context herein. Such is not an endorsement of any provider or product beyond that approval, nor guarantee of future work or sales. Furthermore, listing does not imply that other products or providers will necessarily be unacceptable if submitted for approval; that depends upon subsequent LBO staff evaluation. Finally, listing herein does not negate any constructor or fabricator’s responsibility to assure that work is performed correctly.

Note on nuclear facility work: Presence of any firm or product on these listings does not also indicate evaluation or approval for use in nuclear-related work from a nuclear QA (qualified supplier) standpoint. For that use, items or services must also be either commercial-grade dedicated or supplier listed on LANL’s IQPA Division Institutional Evaluated Suppliers List (IESL), [here](#) (LANL internal).

For questions, suggestions, or concerns regarding this listing, please contact POCs below (all area code 505):

Scope	ESM Ch. 16 Reference
Testing agencies (lab and field material testing)	Section IBC-TIA (ref. IBC §1703)
General and Special inspection agencies	Section IBC-TIA (ref. IBC §110 and §1703.1)
Shop fabricators of steel, aluminum, and precast concrete who may self-manage in-shop inspections	Section IBC-FAB (ref. IBC §1704.2.5)
<b>POC</b> : Robert Abeyta, Chief Inspector, 412-1136, <a href="mailto:rkabeyta@lanl.gov">rkabeyta@lanl.gov</a> <b>Alt</b> : Timothy Donovan, Lead Inspector, 500-2731, <a href="mailto:timd@lanl.gov">timd@lanl.gov</a>	
Scope	ESM Reference
NDE (non-destructive examination) and/or welding inspection	Chapter 13 Welding, Joining, & NDE; LANL-internal <a href="#">database</a> controls individual inspector quals
<b>POCs</b> Welding: David Bingham, Welding Chief Inspector (664-0416), <a href="mailto:dbing@lanl.gov">dbing@lanl.gov</a> ; alternate: Anthony Mecham, (695-4462), <a href="mailto:ammecham@lanl.gov">ammecham@lanl.gov</a>  NDE: David Harvey (695-3667), <a href="mailto:dpharvey@lanl.gov">dpharvey@lanl.gov</a> ; alternate: Bingham (above).	

Please submit updates to [rkabeyta@lanl.gov](mailto:rkabeyta@lanl.gov) and [engstandards@lanl.gov](mailto:engstandards@lanl.gov)

# PART A – FABRICATOR AND QUALITY RELATED AGENCY APPROVALS

Revision schedule: As listings are typically updated every few months, check with the Chief Inspector listed above regarding firms not listed as they may be under review or recently approved.

## Summary Tables

Usage: See Notes below Table A1 — plus the Detailed Listing that follows the Summary Tables for limitations, scope-of-approval, and other details

**Table A1 — New Mexico Presence Summary**

Firm	Concrete Testing (C)	Masonry (M)	Metal ID Testing (ID)	NDE (NDE)	Soil (S)	Geotech Testing (G)	Steel Fab (SF) <b>Note 2</b>	Concrete Prefab (CP)	Third-Party Inspection <b>(Note 3)</b>	Comments
505NDE (Corrales, etc.)				X						VT, PT, MT
Acuren (Farmington)				X						VT, PT, MT, RT, and UT
Albuquerque Vault								X		
Bauman Industrial Labs				X						ABQ office; VT, PT, MT, UT
Buildology Precast								X		ABQ Office
Clover Leaf Solutions						X			X	ABQ office
Concrete, Aggregate, and Asphalt Testing	X				X					Algodones, NM
Castillo Prestress Concrete								X		Belen, NM Office
Coreslab Structures								X		ABQ facility only; not concrete testing
Daniel B. Stephens & Associates						X				ABQ, within scope of AASHTO certifications
GeoTek, Inc.	X	X			X	X			X	ABQ Office for testing, Nevada Office for Inspection
Integrated Quality Solutions				X					X	Los Alamos. VT method.
LANL (e.g., Triad, LLC)	X		X	X	X		X			Fab at SM-38 only; all inspections (general and Special) by ES
NorthGES	X	X		X	X	X			X	ABQ office; weld VT
NV5	X	X			X	X			X	ABQ office
Premier NDT Services				1						Farmington
TEAM Industrial				X						Farmington; VT, PT, MT, RT, and UT
Terracon	X				X	X				ABQ office only
Western Technology	X				X	X			X	ABQ office only
WSP	X	X			X	X			X	ABQ office only

Notes for Tables A1 and A2	
Note 1	A "1" in the table indicates re-evaluation required prior to use.
Note 2	<u>Structural steel fabricators</u> whose work includes <u>seismic load or seismic-force-resisting structures (SFRS) or demand-critical welds</u> are subject to project-specific LANL reviews and approvals for processes, procedures, qualifications and materials prior to start and may require shop inspections by LBO-approved inspectors prior to, during, or after fabrication (ref. IBC §1704.2.5, AISC)
Note 3	IBC general (Section 110) and Special inspections (IBC Ch. 17) except as noted; LANL must approve proposed inspectors
Note 4	CWI (weld) inspector approval is not per these listings but via ESM Ch 13 WIGN <a href="#">6-01</a> and <a href="#">this</a> internal LANL website database

**Table A2 — Out-of-State Locations Summary**

**Usage:** See Notes above Table A2 — plus the Detailed Listing that follows the Summary Tables for limitations, scope-of-approval, and other details

Firm	Concrete (C)	Masonry (M)	Metal ID Testing (ID)	NDE (NDE)	Soil (S)	Geotech Testing (G)	Steel Fab (SF) <b>Note 2</b>	Concrete Prefab (CP)	Third-Party Inspection <b>(Note 3)</b>	Comments
Able Steel Fabricators, Inc.							X			Mesa AZ
Acuren (Denver, etc.)				X						VT, PT, MT, RT, and UT
Anchor Fabrication							X			Wichita, KS (formerly JRCMP)
Apollo Mechanical Contractors							X			Pasco, WA
Armag Corporation							X			Bardstown, KY
BlueScope Buildings NA							X			All 10 Locations
Bridge Brothers							X			Pickens, SC; aluminum pedestrian structures only
CTL-Thompson Testing Agency, Denver	X									Only durability testing per ASTM C 666, prisms in water tank.
EZARC Building Solutions							X			Lindon, UT
Global Fire Protection Group									X	Chads Ford, PA (esp. firestopping)
IMR Metallurgical Services, Louisville KY			X							Full range of mechanical and chemical testing of metals
Independence Steel and Rigging							X			Pima, AZ
IRISNDT				1						Tulsa, OK
JR Custom Metal Products										see Anchor
KDM Steelworks							X			Loveland, CO
Leak Testing Specialists				X						Orlando, FL
MISTRAS (Denver, etc.)				X						VT, PT, MT, RT, and UT

Firm	Concrete (C)	Masonry (M)	Metal ID Testing (ID)	NDE (NDE)	Soil (S)	Geotech Testing (G)	Steel Fab (SF) <b>Note 2</b>	Concrete Prefab (CP)	Third-Party Inspection <b>(Note 3)</b>	Comments
MMI Industrial and Steel							X			Mesa, AZ
MMI Tank and Industrial Services, Inc.							X			Phoenix, AZ
Next Level Steel / Next Level Steel West							X			Mesa and Goodyear, AZ
NUCOR–Building Systems							1			Utah facility
Premier Steel Services, LLC (Glenpool, OK (Tulsa area)							X			Excludes demand critical; additional review/approval required for seismic force-load-resisting
RedGuard							X			Wichita, KS
Revolution Industrial							X			Chandler, AZ
Rigid Global Buildings							X			Houston, TX
SafeRack							X			Andrews, SC
Stork Testing and Metallurgical Consulting				1						Houston location/staff only: liquid penetrant, magnetic particle, and ultrasonic testing only
TEAM Industrial (Denver, etc.)				X						VT, PT, MT, RT, and UT
U.S. Chemical Storage							X			Wilkesboro, NC
Valley Joist, LLC							X			Limited to K, LH, DLH, and CJ series joists and joist girders.

### **Background**

Fabricator approval is governed by [ESM Ch. 16](#), Section IBC-FAB.

Testing and Inspection Agency (TIA) approval is governed by [ESM Ch. 16](#), Section IBC-TIA. Typical TIA Accreditations:

- Concrete—ASTM C 1077
- CWI – AWS
- Masonry –ASTM C 1093
- NDE – ASNT
- Soils—ASTM D 3740
- Geotech – see heading and table below
- Steel – [AISC](#) Quality Certification Program for Steel Building Structures & Simple Steel Bridges
- Steel, Seismic – AISC 341
- IAS – Special Inspection Agencies

### Testing and Inspection Agencies

Approval criteria and the process for becoming listed may be found in ESM Chapter 16 Section IBC-TIA and applicable national and industry standards as listed below.

Evaluations of testing agencies for approval by the LANL Building Official (LBO) generally model the associated national codes/standards identified in the LANL site standards and specifications. These codes, such as ACI 301, ASTM E 329, and other ASTM standards generally require national accreditation for each company, each facility, and mobile units. Evaluations will be done by an LBO-approved chief inspector unless another evaluator is specifically approved by the LBO. The evaluation will focus on verification of national accreditation for the specific type of testing along with verification of key attributes such as, qualified personnel, calibrated devices, proper documentation processes (internally and externally). An example is that the Testing Agency must follow the applicable ASTM or other code(s) used for specific tests including documenting on their reports any cases where they do not follow the specific test methods.

### Geotechnical (Subsurface Investigations)

This work (e.g., seismicity, stratigraphy, ground water conditions, slope stability, soil strength, position and adequacy of load-bearing soils, the effect of moisture variation on soil-bearing capacity, compressibility, liquefaction, and expansiveness) shall be performed by an LBO-approved geotechnical firm with a history/expertise in subsurface evaluations and performed under the direct supervision of a qualified geotechnical engineer. In addition (based on the specific edition of the IBC imposed on the project), the registered design professional shall have a fully qualified representative on site during all boring and sampling operations. Subsurface firms must meet these minimum requirements whether they are also an approved testing agency; furthermore, an LBO-approved soil testing agency must be used for all analytical soil tests governed by lab accreditations (e.g., ASTM D 3740). Geotechnical work is governed by ESM [Chapter 5](#), Section IV.

Field Method List
ASTM D2487 Standard Procedure for Classification of Soils for Engineering Purposes
ASTM D2488 Practice for Description and Identification of Soils (Visual-Manual Procedure)
ASTM G57 Standard Practice for Soil Resistivity Using the Wenner Four-Electrode Method
Laboratory Method List
ASTM D422 Standard Test Method for Particle-size Analysis of Soils
ASTM D1557 Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort
ASTM D2216 Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
ASTM D3740 Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction
ASTM D3080 Test Method for Direct Shear of Test of Soils Under Consolidated Drained Conditions
ASTM D4318 Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils
ASTM D4546 Test Methods for One-Dimensional Swell or Collapse of Soils
AASHTO T-193 Standard Method of Test for the California Bearing Ratio

### Selected Standards (Current Editions)

- A2LA for NDE laboratory testing
- AASHTO [re:source](#) (formerly AMRL) testing lab accreditation program
- ASNT (American Society for Nondestructive Testing) SNT-TC-1A + ASME B&PVC or CP-189 (and Volume 6 of ESM [Chapter 13](#) – Welding, Joining, & NDE)
- ASTM E 329, *Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction*
- ASTM E 543, *Standard Practice for Agencies Performing Nondestructive Testing*
- AWS (American Welding Society) QC-4 for welding qualification testing facilities
- ICC-IAS [Accreditation Criteria for Testing Laboratories \(AC89\)](#)
- ICC-IAS [Accreditation Criteria for Special Inspection Agencies \(AC291\)](#)
- ICC-IAS [Accreditation Criteria for Fabricator Inspection Programs for Reinforced Concrete \(AC157\)](#)

- ICC-IAS [Accreditation Criteria for Fabricator Inspection Programs for Structural Steel \(AC172\)](#)
- IAS/MB/004 (AC472), [Accreditation Criteria for Inspection Programs for Manufacturers of Metal Building Systems](#)
- National Ready Mixed Concrete Association (NRMCA)
- Precast Concrete Institute (PCI)
- Additional specific accreditation programs based on IBC or associated national standards such as ACI, [AISC](#), and ASTM.

## DETAILED LISTING OF LBO-APPROVED FIRMS

### 505NDE, LLC

479 CAMINO SIN PASADA  
CORRALES, NM 87048  
505-342-1000

<https://505nde.com>

[gerald.henderson@505NDE.com](mailto:gerald.henderson@505NDE.com), 505-480-4827

Approved for: Magnetic Particle (MT), Liquid Penetrant (PT), and Visual (VT) methods, all locations.

Audit history: 4/4/2023 DPH; ES-DO-Memo-24-032, 2024-11-13

### Able Steel Fabricators, Inc.

4150 E. QUARTZ CIRCLE  
MESA, ARIZONA 85215  
480-830-2253

<https://ablesteel.com>

General Inquiries: Mark Fultz [mfultz@ablesteel.com](mailto:mfultz@ablesteel.com)

Approved for: fabrication of metal buildings made of sheet steel and tubes by welding, cutting, and bending of metal.

Audit History: 08/15/23 RKA/DT; ES-DO 23-041  
AISC cert. - Building Fabricator, Complex Coating  
Endorsement 2 - Covered, Complex Coating  
Endorsement 3 – Exposed. Verified 08/17/24 TMD

### Acuren Industrial Services

2060 AFTON PL  
FARMINGTON, NM 87401  
505-326-6760

7281 E 54TH PLACE  
COMMERCE CITY, CO 80022  
303-307-4503

Nat'l: 800-218-7450

<https://www.acuren.com/inspection/>

Operations Manager: Gunnar Netteberg,  
[gunnar.netteberg@acuren.com](mailto:gunnar.netteberg@acuren.com)

Approved to perform: NDE methods: VT, PT, MT, RT, and UT at all company locations/field.

Audit history: DPH: (ES-DO: 22-021, 9/30/2022)

### Albuquerque Vault Co.

300 AIRPORT DRIVE NW  
ALBUQUERQUE, NM 87121  
505-836-4404

<http://www.albuqvault.com>

Mike Addy, Owner/President [albuqvault@msn.com](mailto:albuqvault@msn.com) Chani Addy, QC manager

Approved for: concrete vaults, manholes, drop inlets

Audit history: Initial – ES-DO memo 24-011 (04/08/2024)  
NPCA cert., exp. 12/31/2024 TMD 03/26/2024

### Anchor Fabrication

(previously JR Custom Metal Products Inc.)  
2237 S. WEST ST CT  
WICHITA, KS 67213  
316-263-1318

<https://www.anchorfabrication.com/>

Approved to perform: Steel fabrication

Gary D. Richards, General Manager,  
[GRichards@JRCMP.com](mailto:GRichards@JRCMP.com), c 316-650-2685

Audit History: KK/DB: 2017-6-6 LBO ES-DO: 17-018  
6/16/17. No AISC 6/2017 TO.

JRCMP was purchased by Anchor in July 2023.  
Anchor is a mass production fabricator. They also support structural fabrication for RedGuard and are listed due to that association and not necessarily for other capabilities.

### Apollo Mechanical Contractors

3404 N. SWALLOW AVE  
PASCO, WA 99301  
509-586-1104

[www.apollomech.com](http://www.apollomech.com)

Approved to perform: Steel fabrication

Jim Jarrett, Operations Manager  
[Jim.jarrett@apollomech.com](mailto:Jim.jarrett@apollomech.com)

Audit history: Initial - LBO (ES-DO 24-020 05/16/2024)

**Armag Corporation**  
300 ARMAG AVE  
BARDSTOWN, KY 40004  
877-510-0087

<https://www.armagcorp.com/>  
[info@armagcorp.com](mailto:info@armagcorp.com)

Approved to Perform: Steel Fabrication

Mr. Brandon Fryman, 859-534-3174  
[brandon.fryman@armagcorp.com](mailto:brandon.fryman@armagcorp.com)

Audit history: 2008; MF/BD/DB spring 2023;  
ES- DO- Memo-23-035, 6/12/2023

**Bauman Industrial Labs, LLC**  
813 PASEO DEL RIO PLACE SW  
ALBUQUERQUE, NM 87105  
505-250-6328

Patrick Bauman [pat@baumanindustrial.com](mailto:pat@baumanindustrial.com)  
Paul Bauman [pablo60z@yahoo.com](mailto:pablo60z@yahoo.com)

Approved to perform: Structural steel weld inspections and NDE using VT, PT, MT, and UT NDT methods in the field (construction sites) and in fabrication shops.

Audit history: 9/15/20 DH/KB; ES-DO 20-061

**BlueScope Buildings North America, Inc.**  
7440 DOE AVE  
VISALIA, CA 93291

559-651-5325  
<http://www.bluescopebuildings.com/>

Approved to perform: Steel fabrication.

Susan Stark, President  
[susan.stark@bsbna.com](mailto:susan.stark@bsbna.com) Tommy  
Smith, Quality Manager  
[tommy.smith3@bsbna.com](mailto:tommy.smith3@bsbna.com)

Audit History: EL/DB: 2017-5-23 LBO ES-DO: 17-021 6/27/17. IAS cert AC-472 for all 10 locations exp 01/01/2025 – TD/RKA

**Bridge Brothers**  
225 PUMPKINTOWN HIGHWAY  
BUILDING 19  
PICKENS, SC 29617  
866-806-0847  
<https://bridgebrothers.com/>

Approved to perform: aluminum pedestrian structure fabrications

Conner Thompson, Eng Mgr.  
[cthompson@bridgebrothers.com](mailto:cthompson@bridgebrothers.com) Aaron  
Gentilucci, Sales  
[agentilucci@bridgebrothers.com](mailto:agentilucci@bridgebrothers.com)

Audit history: LBO: 5/29/19 DB (ES-DO-19-014) AISC certs Bridge Fabricator Intermediate, Bridge Fabricator - Simple, Complex Coating Endorsement 1 - Enclosed, Complex Coating Endorsement 2 - Covered, Complex Coating Endorsement 3 - Exposed, Fracture Control Endorsement - verified 08/17/2024 TMD

**Buildology Precast**  
3601 PAN AMERICAN FRWY NE  
ALBUQUERQUE, NM 87107  
505-344-6626

[www.buildologyinc.com](http://www.buildologyinc.com)

Steve Hooper [steve@buildology.com](mailto:steve@buildology.com) Jonathan Eggleston  
[jonathan@buildology.com](mailto:jonathan@buildology.com)

Concrete Retaining Wall) Anchor Diamond Retaining Walls (Segmental Dry Cast Retaining Wall) Cinder Block Non-Prestressed Precast Concrete Miscellaneous Precast Products: Median/Jersey Barrier, Parking Bumpers, Splash Block Architectural Precast Concrete Redi-Rock Retaining Walls (Segmental Precast

Audit history: Initial (ES-DO memo 23-051); verified NPCA cert. 03/26/2024 - TMD

**Castillo Prestress Concrete**  
1 LOPEZ LOOP  
BELEN, NM 87002  
505-864-0238

<http://www.castilloprestress.com/>

Certification Category: B4, C4  
Products Produced: Box Beams/Slabs, Double Tees, I-Beams/Girders, Piles, Sound Walls, Stadium Seats, Structural Wall Panels  
Audit history – Initial (ES-DO memo 23-050); PCI cert. verified - 08/17/2024 – TD

**Clover Leaf Solutions, Inc.**  
5600 WYOMING BLVD.NE, SUITE 270  
ALBUQUERQUE, NM 87109  
505-998-9611

<https://cloversolutions.us/construction->

[management/](#) Matt Custer, President, CEO

[MGMT@cloversolutions.us](mailto:MGMT@cloversolutions.us) Corey Englebrake,

COO 505-200-0057

Approved to perform: geotech; general and special inspection independent of constructor; LANL must approve inspectors and subtiers beyond Geo-Test and Wilson & Co.

Approval history: Insp: ES-DO-Memo-22-028 (12/22/22); geotech: 21-020 (3/30/21)

**Concrete, Aggregate, and Asphalt Testing, LLC (CA2 Testing)**

17 CENTRO  
ALGODONES, NM 87001  
505-718-3030 fax: 505-425-9159

[www.ca2testing.net](http://www.ca2testing.net)

Approved to perform: Concrete (including durability) testing; soils testing but not T88, T96, C131, D422.

Owner/Eng Manager: Lee Ann Marquez, PE,  
[leaann@ca2testing.com](mailto:leaann@ca2testing.com)  
Accreditation Information: Javier Ramirez  
[javier@ca2testing.com](mailto:javier@ca2testing.com)

Audit history: LBO: 10/18/2011 JLR (ES-DO: 12-001)  
Certifications last verified: AASHTO – 10/17/2023 – TD

**CoreSlab Structures (Albuquerque), Inc.**

2800 SECOND STREET SW  
PO BOX 1609  
ALBUQUERQUE, NM 87102  
505-247-3725 fax: 505-243-4875

<https://www.coreslab.com/locations/albuquerque-new-mexico/>

[salesalbuquerque@coreslab.com](mailto:salesalbuquerque@coreslab.com)

Approved to perform: Precast concrete fabrication, not concrete testing, at ABQ facility.

Greg Krause, General Mgr, [gkrause@coreslab.com](mailto:gkrause@coreslab.com)

Matthew Manning, QC Mgr, [mmanning@coreslab.com](mailto:mmanning@coreslab.com)

Joseph Lujan, QC Supervisor,  
[jlujan@coreslab.com](mailto:jlujan@coreslab.com)

David Baird, Project Mgr, [dbaird@coreslab.com](mailto:dbaird@coreslab.com)

Audit History: LBO 12/12/19 (SRG) (ES-DO: 20- 014, 1/6/2020) PCI certs. (AC, B4, and C4) verified 03/26/2024 - TMD

**CTL | Thompson**

1971 W 12TH AVE  
DENVER CO, 80204  
303-825-0777 fax: 303-825-4252

<http://www.ctlthomson.com/>

Approved to perform: concrete durability testing per ASTM C 666 only, Denver office only

Eng Manager: Damon Thomas, PE  
[dthomas@ctlthompson.com](mailto:dthomas@ctlthompson.com)

Audit history: LBO 4/8/2011 JLR (ES-DO 11-018)  
Certifications last verified: 10-17-2023 – TD

**Daniel B. Stephens & Associates, Inc. (DBS&A) Soil Testing Lab**

4400 ALAMEDA BLVD. NE, SUITE C  
ALBUQUERQUE, NM 87113  
505-889-7752 fax: 889-0258

<http://www.dbstephens.com/>

<http://www.dbsa-soil-lab.com/>

Approved to perform: Geotech testing within scope of AASHTO re:source certifications

Joleen Hines, Laboratory Ops Manager,  
[jhines@dbstephens.com](mailto:jhines@dbstephens.com)

Audit history: LBO: 4/6/2015 RT (ES-DO: 15-018, 4/7/15). Certs last verified: 10/17/2023 – TD

**EZARC Building Solutions**

21172 700 N  
LINDON, UT 84042  
385-335-8931

<https://ezarcsolutions.com/>

Julie Peck, Vice  
President  
[jpeck@ezarcsolutions.com](mailto:jpeck@ezarcsolutions.com)  
480-369-2627

Approved fabricator to perform fabrication of structural steel, metal component manufacturing, and miscellaneous steel members made of sheet steel and tubes by welding, cutting, and bending of metal (prefabricated buildings)

Audit history - AISC cert - Building  
Fabricator exp. 08/31/2024 – RKA/TD

**GeoTek, Inc.**  
2100 AZTEC ROAD NE  
ALBUQUERQUE, NM 87107  
505-456-4900 office

[www.geotekusa.com](http://www.geotekusa.com)

Alex S. Koehler, P.E. - Branch Manager  
[akoehler@geotekusa.com](mailto:akoehler@geotekusa.com)

Approved to perform: Concrete (field and laboratory), soils (field and laboratory), masonry, asphalt, and aggregate testing; geotech services; visual examination, general and special inspection independent of constructor; LANL must approve inspectors and firms.

Audit history: AASHTO certs (ABQ)- 11/01/2023 TD  
IAS Special Inspection Agency cert (Nevada)- exp. 11/01/2024 -TD

**Global Fire Protection Group**  
225 WILMINGTON WEST CHESTER PIKE  
STE 246  
CHADDS FORD, PA 19317  
855-456-2250

<https://www.globalfpg.com/>

<https://www.globalfpg.com/fire-protection-engineering-services#ThirdPartyInspectionServices>

Approved to perform: Third-party inspections (e.g., firestopping, ASTM 2174 – Through

Penetrations; ASTM 2393 – Fire Rated Joints & Perimeter Fire Barrier)

Mr. Pat Tesche, Field Operations Manager,  
[ptesche@globalfpg.com](mailto:ptesche@globalfpg.com)

Approval history: ES-DO-Memo-21-010 (2/19/21)

**IMR Metallurgical Services - Louisville**

4510 ROBARDS LN  
LOUISVILLE KY 40218  
502-810-9007 fax: 502-810-0380

[http://www.imrtest.com/index\\_louisville.html](http://www.imrtest.com/index_louisville.html)

Approved to perform: Full range of metallurgical testing per ASTM F606, etc.

Lab Director: Jennifer Breetz  
[Jennifer.Breetz@imrtest.com](mailto:Jennifer.Breetz@imrtest.com)

Quality Manager: Jason Sponel  
[Jason.sponel@imrtest.com](mailto:Jason.sponel@imrtest.com)

Technical Director/Failure Analysis: Brett A. Miller, P.E., FASM  
[Brett.Miller@imrtest.com](mailto:Brett.Miller@imrtest.com)

Metallurgy Supervisor: Phillip Swartzentruber, Ph.D., PE  
[phillip.swartzentruber@imrtest.com](mailto:phillip.swartzentruber@imrtest.com)

approvals can be found on website:  
<https://imrtest.com/accredited-materials-testing/>

Audit history: CMRR-S-11-036 5/25-24/11 DLT; LBO 6/8/2011 JLR (ES-DO 11-020)

**Integrated Quality Solutions, LLC**

894 43RD STREET  
LOS ALAMOS, NM 87544  
970-274-8993

[www.iqsolutionsco.com](http://www.iqsolutionsco.com)

Zachariah Bergstrom  
[zbergstrom@iqsolutionsco.com](mailto:zbergstrom@iqsolutionsco.com)

Approved to perform: general and special inspection independent of constructor; LANL must approve inspectors and subtiers

Audit history: Initial – LBO 04/29/2024 (ES-DO memo 24-019)

**Independence Steel & Rigging, LLC**

PO BOX 738  
PIMA, AZ 85543-0738  
(near Safford,  
AZ)  
928) 651-1698  
[Saffordsteelfabrication@gmail.com](mailto:Saffordsteelfabrication@gmail.com)

Approved for: Structural Steel

Fabrication

Owner/Dir. Of Ops: Nick DeRusha

**IRISNDT**

1115 WEST 41ST ST  
TULSA, OK 74107  
918-446-8773

[usinfo@irisndt.com](mailto:usinfo@irisndt.com)  
[www.irisndt.com/us/](http://www.irisndt.com/us/)

Approved to perform: NDE using VT, RT, PT, MT, and UT NDT methods in the field and fab shops. **Requires re-evaluation prior to use.**

Mr. Jimmy Melton, Location Manager,  
[jimmy.melton@irisndt.com](mailto:jimmy.melton@irisndt.com)

Mr. Kevin Wilson, US QA Manager Level III,  
[kevin.wilson@irisndt.com](mailto:kevin.wilson@irisndt.com)

Audit history: DPH/PSB 10/8/19, appvd  
ES-DO- Memo-20-052, 8/18/20

**JR Custom Metal Products Inc.**  
see Anchor Fabrication

**KDM Steelworks**

170 2ND STREET SW UNIT B  
LOVELAND, CO 80537  
720-975-5110

<https://www.kdmsteelworks.com/info@kdmsteelworks.com>

Approved to Perform: Structural metal fabrications. Fab of seismic force/load resisting systems requires evaluation/approval.

Ms. Marj Oliver, Lead Estimator,  
[bids@kdmsteelworks.com](mailto:bids@kdmsteelworks.com)  
O: 970-663-4000, C: 720-987-7176

Audit History: MF/DB 2023-4; ES-DO-Memo-23- 036,  
6/12/2023 AISC BU current 08/17/2024 TD

**LANL**

PO 1663  
LOS ALAMOS NM 87545

<http://www.lanl.gov/>

Approved to perform: concrete, soils, metals ID, NDE, all inspections, steel fabrication (SM-38 only; fab of seismic force/load resisting systems requires evaluation/approval)

Eng Manager/LBO: [Dan Tepley](#), ES-DO, 606-0600  
QA Contact: [Darren Meadows](#), PAQ-2

Material Test Lab (MTL) Supervising ACI Level 2/  
Engr: [Santi Scheer Salazar](#)

Audit history: SM-38: MAM: QPA-DO-18- 013/AR(17)-  
017.001 Appv. 8/20/18 (ES-DO-18-023).  
Certifications last verified: AASHTO 10/17/2023 – TD

**Leak Testing Specialists**

5810 HOFFNER AVE, STE 805  
ORLANDO, FL 32822  
407-737-6415

<https://leaktestingspecialists.com/>Approved to perform:  
NDE leak testing method.

Ms. Kaylie Page, Quality Manager for LTS  
[Kaylie.Page@leaktestingspec.com](mailto:Kaylie.Page@leaktestingspec.com)

Audit history: 9/29/2022 DPH (ES-DO-Memo-23-  
026, 5/1/2023)

**MISTRAS**

4117 S. VALLEY DRIVE UNIT 100  
LONGMONT, CO 80504  
970-535-4766, fax 970-535-4151

<https://www.mistrasgroup.com/company/branches/denver-co-usa/>

Approved to perform: NDE methods: VT, PT, MT, RT, and UT at all company locations.

Quality Manager: Mr. Osman Murtic,  
[osman.murtic@mistrasgroup.com](mailto:osman.murtic@mistrasgroup.com)

Gen. Mgr: Manuel Posada,  
[manuel.posada@mistrasgroup.com](mailto:manuel.posada@mistrasgroup.com)

Audit history: DPH: (ES-DO: 22-022, 9/30/2022)

**MMI Industrial and Steel**  
2045 S VINEYARD STE. 118  
MESA, AZ 85210  
480-964-9041

<http://www.mmiindustrial.com/> Approved to perform: Steel fabrication

Mr. Brett Huston, CFO [brett@miiindustrial.com](mailto:brett@miiindustrial.com)

Ms. Danielle Medina, QC manager  
[danielle@miiindustrial.com](mailto:danielle@miiindustrial.com)

Mr. Jeff Wright, Estimating Manager  
[jwright@miiindustrial.com](mailto:jwright@miiindustrial.com)

Audit history: Initial – ES-DO memo 24-009  
02/17/2024  
AISC Building Fabricator exp. 04/30/2024 TMD  
03/26/2024

**MMI Tank and Industrial Services, Inc.**  
3240 S 37TH AVE  
PHOENIX AZ 85009  
602-272-6000

<http://www.mmitank.com/>

Approved to perform: Steel fabrication. Seismic force/load resisting work requires re-evaluation/approval.

Mr. Stacy Pinckard, President,  
[Stacy@MMItank.com](mailto:Stacy@MMItank.com)

Audit history: Initial: PB 6/11/15 (ES-DO: ES-DO-15- 026, 7/9/2015). No AISC 6/2017 TO. Verified info 10/23/2023 – TD

**Next Level Steel / Next Level Steel West**  
522 W. MCKELLIPS RD  
MESA, AZ 85201  
480-733-1600

15836 WEST EDDIE ALBERT WAY  
GOODYEAR, AZ 85338  
602-805-2200

<http://www.Nextlevelsteel.com>

Brandon Bell M: 480-223-3301

Approved to perform: steel fabrication

Audit history: Initial – ES-DO memo  
AISC Building Fabricator (both locations)

exp. 03/31/2025 – TMD 08/09/2024

**North GeoEngineering Services LLC (NorthGES)**  
4915 CUMBRE DEL SUR COURT NE  
ALBUQUERQUE, NM 87111  
M: 505-400-2919 O: 505-298-3177

John North, VP, [john.northges@gmail.com](mailto:john.northges@gmail.com)

Approved to perform: Concrete (field and laboratory), soils (field and laboratory), masonry, asphalt, and aggregate testing; geotech services; visual examination, general and special inspection independent of constructor; LANL must approve inspectors and firms.

Approval history: ES-DO-Memo-22-011 (inspection, VT) 8/8/2022; 23-006 (test/geo) 2/17/2023

**NUCOR Building Systems–Utah, LLC**  
P.O. BOX 907  
1050 N. WATERY LANE  
BRIGHAM CITY, UT 84302  
435-919-3100 fax: 435-919-3101

<http://www.nucorbuildingsgroup.com/>

Approved to perform: fabrication of metal buildings made of sheet steel and tubes by welding, cutting, and bending of metal.

Mr. Mark VanDyken, General Manager Mr. Dana Christensen, Certifications & Standards Coordinator,  
[dana.christensen@nbsut.com](mailto:dana.christensen@nbsut.com) , 435-919-3252

Audit history: Partial by DB 11/2016 (ES-DO: 17-004) Certifications last verified: 11/29/16 DB. IASMB-107 for metal bldgs exp. 7/1/19. No AISC 6/2017 TO. IAS MB-107 (AC472) cert. exp 07/01/2025 TMD

**NV5**

4725 LUMBER AVE NE  
UNITS 1 and 2  
ALBUQUERQUE, NM 87109  
505-344-7373 fax: 505-344-1711

<http://www.nv5.com/>

Approved to perform: concrete (field and laboratory), soils (field and laboratory), masonry, asphalt, and aggregate testing, and geotech services, at ABQ office. General and Special inspection independent of constructor; LANL must approve inspectors.

Engineer in Responsible Charge: Ralph L. Abeyta, P.E., M. ASCE  
[ralph.abeyta@NV5.com](mailto:ralph.abeyta@NV5.com) Direct:  
505.278.7076

Spec. Inspection / Field/Lab Testing  
Supervisor: Geoffrey Juskiewicz  
[geoffrey.juskiewicz@nv5.com](mailto:geoffrey.juskiewicz@nv5.com) C:  
505.235.6931

Operations Manager: Shafiq Popalzai, P.E.  
[shafiq.popalzai@nv5.com](mailto:shafiq.popalzai@nv5.com) C: 949.468.6644

Quality Manager: Carl Henderson, PhD, PE, GE  
[Carl.Henderson@nv5.com](mailto:Carl.Henderson@nv5.com) C: 412.498.0670

Audit history: Testing: ES-DO-Memo-21-014 (3/22/21); Insp: ES-DO-Memo-21-005 (2/18/21).  
Certifications last verified: 3/25/20 MNO

**Premier NDT Services, Inc.**

2198 BLOOMFIELD HWY  
FARMINGTON, NM 87401  
505-325-1407

[www.premierndt.com/](http://www.premierndt.com/)

Approved to perform: NDE methods: Radiography, liquid penetrant, ultrasonic, magnetic particle, visual, and AWS-CWI.  
**Requires re-evaluation prior to use.**

Contact: Cody Nygern, VP Operations

Audit history: Initial: DAB/KB (ES-DO: 12-041, 8/27/2012)

**Premier Steel Services, LLC**

16420 S HIGHWAY 75  
GLENPOOL, OK 74033  
918-227-0110; fax: 918-227-0113

[premiersteelservices.com](http://premiersteelservices.com)

Approved to perform: Steel fabrication excluding demand-critical welding. Seismic force/load resisting work requires LBO re-evaluation/approval.

Eng Manager Andy L. Vanaman, President,  
[avanaman@premiersteelservices.com](mailto:avanaman@premiersteelservices.com)

QA Contact: Rick Humphreys,  
[rhumphreys@premiersteelservices.com](mailto:rhumphreys@premiersteelservices.com)

Audit history: LBO: 5/2019 (ES-DO: 19-011); Certifications last verified: AISC BU current 08/17/2024 TMD  
Work history: RLUOB, DARHT W.E.

**RedGuard, LLC**

401 W 47th ST SOUTH  
WICHITA, KS 67217  
316-440-5830

[www.coversix.com](http://www.coversix.com)

Approved to perform: Steel fabrication

Steve Petz, Sr. VP of Sales and Operations  
[stevep@redguard.com](mailto:stevep@redguard.com) (316) 440-1833

Randy Tiersort, Business Development  
[randyt@coversix.com](mailto:randyt@coversix.com), ph. 316-867-8074

Christian Phillips, Project Eng. Manager  
[christianp@redguard.com](mailto:christianp@redguard.com)

Ross Draney, General Manager [rossd@coversix.com](mailto:rossd@coversix.com)  
M: 316-650-9026

Audit History: KK: 2017-6-9 LBO ES-DO: 17-019 6/16/17).  
ISO 9001:2015 exp. 05/27/2025 – TD

**Revolution Industrial**  
5858 W. RIGGS ROAD  
CHANDLER, AZ 85226  
480-993-6699

[info@revolutionindustrial.com](mailto:info@revolutionindustrial.com)

Approved to perform: steel fabrication

Andre Mischel, QC Manager, 480-622-5365 [Andre@revolutionindustrial.com](mailto:Andre@revolutionindustrial.com)

Jon Snell, 480-215-0664  
[Jon@revolutionindustrial.com](mailto:Jon@revolutionindustrial.com)

Audit history: LBO: 04/2024 (ES-DO: 24-010) AISC cert. fabricator verified 08/17/2024 - TMD

**Rigid Global Buildings**  
18933 ALDINE WESTFIELD RD  
HOUSTON, TX 77073  
281-443-9065; 888-467-4443

<https://www.rigidbuilding.com/>

Approved to perform: Steel fabrication

John Long, VP Eng/IT; QA/QC Manager,  
[john.long@rigidbuilding.com](mailto:john.long@rigidbuilding.com)

<https://www.rigidbuilding.com/about-rigidbuilding/executive-team/>

Audit History: TMD/DAB assessment 2018-8-28; LBO: 4/26/21 (ES-DO-Memo-21-027), AISC Building Fabricator certs verified 10/23/2023; IAS MB-221 (AC472) cert. exp. 07/01/2025 Clark Co. approved fabricator exp. 10/04/2024 as of 08/17/2024 TD

**SafeRack**  
219 SAFETY AVE.  
ANDREWS, SC 29510  
843-894-2372

[www.saferack.com](http://www.saferack.com)

Scope: Truck and railcar loading platform systems, maintenance work platforms, rolling platforms and related safety and fall protection products.

Audit History: ISO 9001:2015 exp. 05/10/2025 – TD

**TEAM Industrial Services**  
700 DEKALB ROAD  
FARMINGTON, NM 87401  
505-599-4115

5095 PARIS STREET  
DENVER, CO 80239

US: 800-662-8326

<https://www.teaminc.com/service-solutions/inspection/>

Approved to perform: NDE methods: VT, PT, MT, RT, and UT at all company locations/field.

Operations Manager: Mr. Brody Deleon,  
[Brody.Deleon@teaminc.com](mailto:Brody.Deleon@teaminc.com)

Audit history: DPH: (ES-DO: 22-020, 9/30/2022)

**Terracon**  
6805 ACADEMY PKWY WEST NE  
ALBUQUERQUE, NM 87109  
Office: 505-222-5778 Fax: 505-797-4287

[www.terracon.com](http://www.terracon.com)

Approved to perform: concrete, soils geotech testing, ABQ office only. Not T245, D692 (asphalt)

Dept. Manager: Raul E. Mendoza  
[Raul.Mendoza@Terracon.com](mailto:Raul.Mendoza@Terracon.com)

Principal/ Geotechnical Dept. Mgr: Michael E. Anderson, PE (NM 12132), [meanderson@terracon.com](mailto:meanderson@terracon.com)

Audit history: LBO: 9/6/13 JLR 9/9 em Certifications last verified: 3/25/20 MNO

**Valley Joist, LLC**  
255 LOGAN LN  
FERNLEY, NV 89408  
775-575-7337

[west@valleyjoist.com](mailto:west@valleyjoist.com) [www.valleyjoist.com](http://www.valleyjoist.com)

Approved to perform: Steel fabrication, limited to manufacture of K, LH, DLH, and CJ series joists and joist girders.

Mr. Keith Juedemann, General Manager  
[KJuedemann@valleyjoist.com](mailto:KJuedemann@valleyjoist.com) C: 240-215-7011

Mr. Richard Leyva, Quality Control Manager Audit History: ES-DO-22-015 (8/25/2022) IAS AC172 cert exp 03/01/2025 as of 08/17/2024 TMD

**U.S. Chemical Storage**

1806 RIVER ROAD, HWY. 268 WEST  
WILKESBORO, NC 28697  
336-990-0601

<http://uschemicalstorage.com>

Approved to perform: Steel fabrication of metal structures of sheet and tubes.

Mr. Alex Roten, Quality Engineer  
[ARoten@uschemicalstorage.com](mailto:ARoten@uschemicalstorage.com)

Audit history: July 2023 MF/BD; ES-DO-Memo-23- 039, 7/18/2023

**Western Technologies, Inc.**

8305 WASHINGTON PL NE  
ALBUQUERQUE, NM 87113  
505-823-4488 fax 505-821-2963

[www.wt-us.com](http://www.wt-us.com)

Eng Manager: Parveez Anwar, PE (NM #10834) [panwar@rma-western.com](mailto:panwar@rma-western.com)

QA Contact: Andrew L. Cuaderes, Sr. VP/Dir.  
[acuaderes@rma-western.com](mailto:acuaderes@rma-western.com)

NDE and Special Inspector: Theron Howard [thoward@rma-western.com](mailto:thoward@rma-western.com)

Lab Supervisor: James N. Dacy (NICET Level IV) [jdacy@rma-western.com](mailto:jdacy@rma-western.com)

Approved to perform: General and Special inspection independent of constructor; LANL must approve inspectors. Concrete, soils, geotech testing. ABQ office only.

Audit history: NDE removed 2024-11. Test: 9/6/13 JLR 9/9 em; Insp: ES-DO-20-030 3/24/20. Non-NDE certs last verified: 3/25/20 MNO

**WSP** (formerly Wood)  
4221 BALLOON PARK RD NE  
ALBUQUERQUE, NM 87109  
505-821-1801 or 505-881-5357

<https://www.wsp.com>

<https://www.wsp.com/en-us/who-we-are/our-offices/albuquerque-louisiana-blvd>

Hugo Carreon, Materials Service Practice Line Lead  
[hugo.carreon@wsp.com](mailto:hugo.carreon@wsp.com) , 505-456-0083, m 505-288-9804

Dan Kwiecinski, P.E., VP, Eng Manager  
[dan.kwiecinski@wsp.com](mailto:dan.kwiecinski@wsp.com)

Eric Pease, Ph. D., P.E., Geotechnical Practice Lead  
[eric.pease@wsp.com](mailto:eric.pease@wsp.com)

Jeffrey Mann, P.E., consultant [jeffrey.mann2@wsp.com](mailto:jeffrey.mann2@wsp.com)

Lucas Giron, P.E., [lucas.giron@wsp.com](mailto:lucas.giron@wsp.com)

Jesse Boam, P.E., Lab Supervisor,  
[Jesse.boam@wsp.com](mailto:Jesse.boam@wsp.com)

ABQ office only approved to perform concrete and soils (field and laboratory), masonry, asphalt, and aggregate testing; geotech; and third-party inspection (general and Special inspection; LANL must approve inspectors).

Approval history: LBO: Test/Geo: ES-DO-Memo-23-011.Insp: ES-DO-Memo 21-007 (2/18/21); 21-018 (3/29/21); prev. IQPA-DO:19-108, ES-DO-19-015 (7/24/19). 9/6/13 JLR 9/9 em. Certifications last verified: 3/25/20 MNO. Wood became WSP 9/2022.

## PART B – LBO-APPROVED PRODUCTS

Part B includes:

1. Specified Product Approvals
2. Concrete Pre-Approved Mixes
3. Other Proprietary Products

### 1. Specified Product Approvals

Products named in the LANL [Standards](#) (i.e., ESM, Tailored Standards Manual, Master Specifications, Standard Details) are LBO-approved-for-use in the context of their listing there.

### 2. Concrete Pre-Approved Mixes<sup>1</sup>

Given the limited number of nearby concrete suppliers, LANL allows use of known “Standard” and pre-approved mixtures (mixes) without normally requiring or reviewing a plethora of repetitive, code-required, pre-pour submittals such as mixture proportions, characteristics, and strength data; constituent, truck, and plant certifications; supplier’s quality control plan, and other submittals (the engineer of record may still require them, however).

When such pre-approved mixes are used, all batch-specific submittals are still required.

Note, this submittal reduction approach does not limit the potential for use of new mix designs. LANL Specification Section 03 3001, *Reinforced Concrete*, Article *Concrete Mix*, allows for use of alternate mix designs other than these “Standard” mixes given acceptability of the code-required submittals listed therein).

Note to Design Agencies regarding LANL Master Specification [Section](#) 03 3053, *Miscellaneous Cast-in-Place Concrete*: This Section will be revised to reference this listing in the future in a manner similar to what was done in 03 3001 (R19). In the interim, this LBO-approved listing expands and supersedes the Standard/pre-approved mixes in Section 03 3053; therefore, when editing the Section, the Design Agency should replace the existing Standard/pre-approved mixes (in Section 03 3053, Article *Concrete Mix*) with a reference to this listing to ensure the Constructor is aware of all current, LANL pre-approved mixes. Wording from Section 03 3001 may be used as a guide.

Inclusion of concrete mixes in Table B1 below indicates that:

1. The concrete mix meets LANL Master Specification requirements. As of date of issue of the listing, it implies that:
  - a. For Section 03 3001 (R19 and later) *Reinforced Concrete*, mixes comply with Article *Concrete Mix*.
  - b. For Section 03 3053 (R11 and later) *Miscellaneous Cast-in-Place Concrete*, mixes comply with Article *Concrete Mix*.
2. The supplier’s QA program and/or any compensatory actions are satisfactory. As a result, the supplier is not required to submit their QA program with each job.

Table B1 below summarizes the pre-approved mixes from the various concrete suppliers. The mix design details, certifications, and QA plans are available from the suppliers (and, for LANL internal, by clicking [here](#)).

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<sup>1</sup> Section jointly maintained by the LANL Engineering Standards Structural [POC](#) and the Building Code Program Chief Inspector (shown on page 1 herein)

Concrete Suppliers

<a href="#">Duke City Ready Mix</a> (DCRM), Santa Fe Skyler Stapleton 505-877-5777 <a href="mailto:skyler@dukecityredimix.com">skyler@dukecityredimix.com</a>	<a href="#">Los Alamos Transit Mix (LATM)</a> Lonnie Trujillo 505-662-4214 <a href="mailto:ltrujiillo@espmerc.com">ltrujiillo@espmerc.com</a> <a href="mailto:info@losalamostransit.com">info@losalamostransit.com</a>
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**Table B1. Summary of Pre-approved Standard Mix Designs**

LANL MIX TYPE	Spec Section <sup>1</sup> Concrete Mix Usage		Supplier <sup>2</sup> Concrete Mix IDs	
	03 3001	03 3053	DCRM	LATM <sup>3</sup>
<b>Exterior</b>				
4000 psi		X		4K, 4KX, 4K+ (CA2T C22-149)
4500 psi	X		453420AEA	4.5K, 4.5KX, 4.5K+ (CA2T C22-149)
5000 psi	X		503420AEA	5K, 5KX, 5K+ (CA2T C22-149)
<b>Interior</b>				
4000 psi	X	X	403420	4KI (CA2T C22-150), 4KX, 4K+ (CA2T C22-149)
<b>NMDOT (Civil)</b>				
Class A		X		Class A (CA2T 2200-0477)
Class AA		X		Class AA (CA2T 2200-0476)
Class F		X		Class F (CA2T 2200-0488)

**Notes:**

<sup>1</sup> LANL Master Specification Sections: 03 3001 *Reinforced Concrete*; 03 3053 *Miscellaneous Cast-in-Place Concrete*

<sup>2</sup> Suppliers: DCRM: Duke City Ready Mix (Santa Fe); LATM: Los Alamos Transit Mix

<sup>3</sup> For LATM, K+ mixes are cold weather mixes and contain accelerator admixtures, KX (X = eXtended) mixes are hot weather mixes that contain retarders and have increased rotation time, and K mixes are basic mixes for the stated f<sub>c</sub> without any special admixtures

**3. Other Proprietary Products**

LBO approval approach is per ESM Ch. 16, Section IBC-GEN, which in Rev. 12, 3/22/2023 said:

**6.0 Qualification (of) Manufactured Products for IBC Structural and Other Work**

NOTE: Qualification here refers to IBC matters, not nuclear ones.

2.1 Under 104.9, 104.11, and the Special Cases section of the IBC (1705.1.1), proprietary products must be approved by the LBO. Structural examples are anchor channels, mechanical reinforcing steel splices/couplers, and post-installed (PI) anchors. As such, from an IBC standpoint only:

- A. PI anchors used in a seismically exempt application (see definition) are automatically approved by the LBO.

- B. For other products, they are also automatically approved if they meet both of the following:
1. The components chosen are IBC-compliant-labeled (has been accepted by the most recent [ES report](#) from [ICC-ES](#), NER from ICC-NTA, or ER report from IAPMO valid for the code edition in use or newer edition<sup>1</sup>) AND
  2. The design and installation comply with the conditions of use and restrictions specified in the ICC report (in addition to and including following manufacturer instructions, particularly where more stringent). Installation must be verified by special inspector(s) when required by ICC ES Report and/or IBC Ch. 17 on special inspection.
- C. Products accepted by Los Angeles Dept. of Buildings (see footnote) are also acceptable at LANL except where specifically limited by the LANL Standards including Master Specs, when used in non-nuclear service and with any applicable conditions placed by LADBS.<sup>2</sup>
1. LADBS are at <https://www.ladbs.org/forms-publications/publications/research-reports>
- D. Other special case components not automatically approved as noted above must be submitted to the Structural Standards POC who will help broker LBO approval prior to use. *Guidance: This may involve derating; e.g., using less tension and/or shear capacity than documented for a concrete anchor /embedment, using a mechanical rebar splice / coupler capacity that results in the final assembly 'performing' only within elastic region, etc.*

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<sup>1</sup> When a given product's research report isn't compliant with the applicable IBC edition, contact ESM POC for guidance.

<sup>2</sup> LADBS Building Code tab Information Bulletin IB/P/BC-2014-119 — *Alternate Building Materials/Products Approval Requirements* [LADBS IB website](#)