

LANL Building Official

Listing of LBO-Approved IBC Work Testing, NDE, and Inspection Agencies; Fabricators; and Products October 26, 2020

For agencies, presence in these listings is necessary for performance of IBC-related work for LANL or its contractors and subcontractors. LBO approval does not negate Subcontractors' responsibility to assure that testing agencies and fabricators perform correctly.

This listing is published pursuant to the LANL International Building Code (IBC) Program defined by Chapter 16 of the LANL Engineering Standards (click [here](#)), and is posted on that same site. See that program for process and restrictions.

CAUTION FOR 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 standpoint. For that use, items or services must also be either commercial-grade dedicated or supplier listed on LANL's QA Division Institutional Evaluated Suppliers List (IESL), [here](#) (LANL internal).

This document includes (in a single list):

1. Approved testing agencies (lab and field material testing); ref. ESM Chapter 16 Section IBC-TIA.
2. Non-destructive examination (NDE) and/or welding inspection; ref. ESM Chapter 13.
3. General and Special inspection agencies; ref. IBC Section 110 and Ch 17, and ESM Chapter 16 Section IBC-TIA.
4. Shop fabricators of steel, aluminum, and precast concrete who may self-perform in-shop inspections); see ESM Chapter 16 Section IBC-FAB.

Discussion of LANL Building Official (LBO) approved products and related listing follows the above.

For questions, suggestions, or concerns regarding this listing, please contact (all Area Code 505):

1. Testing Agencies and Inspection, Fabricators: Timothy Donovan, Acting Chief Inspector (500-2731, timd@lanl.gov).
2. Welding: David Bingham, Welding Chief Inspector (664-0416, dbing@lanl.gov)
3. NDE: David Harvey, 695-3667, dpharvey@lanl.gov, or Kelly Bingham, 667-6167, kellyb@lanl.gov

To submit updates please notify oruch@lanl.gov

Agency and Fabricator Summary of Approvals

CAUTION: See Limitations/scope-of-approval and other details on pages that follow

Weld inspector approval is not per these listings but via ESM Ch 13 [6-01](#) and [this](#) internal LANL website database

New Mexico

Firm	Concrete Testing (C)	Masonry (M)	Metal ID Testing (ID)	NDE (NDE)	Soil (S)	Geotech Testing (G)	Steel Fab (SF)*	Concrete Prefab (CP)	Inspection	Comments
Bauman Industrial Labs				X						ABQ office
Concrete, Aggregate, and Asphalt Testing	X				X					Las Vegas, NM
Coreslab Structures								X		ABQ facility only; not concrete testing
Daniel B. Stephens & Associates						X				ABQ, within scope of AASHTO certifications
LANL (e.g., Triad, LLC)	X		X	X	X		X		X	Fab at SM-38 only with all inspections by CONSTRENGRS. General and Special inspection.
NV5 (formerly Allwyn and Kleinfelder)	X				X	X			X	ABQ office. General and Special inspection; testing at TWF Project Site Testing Facilities only
Premier NDT Services				1						Farmington
Terracon	X				X	X				ABQ office only
Western Technology	X				X	X			X	ABQ office only. General and Special inspection.
Wood Group/Amec Foster Wheeler	X	X			X	X			X	ABQ office only. General and Special inspection. LANL must approve inspectors.
Yearout Industrial							X			ABQ

Note 1: Requires re-evaluation prior to use.

* CAUTION: Structural steel fabricators whose work includes seismic load or seismic-force-resisting structures (SFRS) or demand-critical welds are subject to project-specific IBC reviews and approvals for processes, procedures, qualifications and materials prior to start and may require shop inspections by LANL approved IBC Inspectors prior to, during, or after fabrication—in addition to the LBO approval herein.

CAUTION: See Limitations/scope-of-approval and other details on pages that follow

Out-of-State

Firm	Concrete (C)	Masonry (M)	Metal ID Testing (ID)	NDE (NDE)	Soil (S)	Geotech Testing (G)	Steel Fab (SF)*	Concrete Prefab (CP)	Comments
BlueScope Buildings NA							X		Visalia, CA location only
Bridge Brothers									Anderson, SC; aluminum pedestrian structures only
CTL-Thompson Testing Agency, Denver	X								Only durability testing per ASTM C 666, prisms in water tank.
Diversified Metal Products							X		Idaho Falls, ID
Great Denver Iron							X		Denver, CO. LBO reevaluation required before next use.
Hirschfeld Industries				1					San Angelo, TX plant; NDE: Ultrasonic, Magnetic Particle, Visual and AWS-CWI.
IMR Metallurgical Services, Louisville KY			X						Full range of mechanical and chemical testing of metals
Independence Steel and Rigging							X		Pima, AZ
IRISNDT				X					Tulsa, OK
JR Custom Metal Products							X		Wichita, KS
Mistras Services, Denver				1					Radiography, dye penetrant, ultrasonic, and magnetic particle
MMI Tank and Industrial Services, Inc.							X		Phoenix, AZ
NUCOR–Building Systems–Utah, LLC							X		Brigham City, UT. Steel fab on DEOS Project, with conditions. Other work requires evaluation.
Premier Steel Fab (Tulsa, OK area)							X		Excludes demand critical; additional review/approval required for seismic force-load-resisting
RedGuard							X		Wichita, KS
Stork Testing and Metallurgical Consulting, Houston				1					Houston location/staff only: liquid penetrant, magnetic particle, and ultrasonic testing only

Note 1: Requires re-evaluation prior to use.

* CAUTION: Structural steel fabricators whose work includes seismic load or seismic-force-resisting structures (SFRS) or demand-critical welds are subject to project-specific IBC reviews and approvals for processes, procedures, qualifications and materials prior to start and may require shop inspections by LANL approved IBC Inspectors prior to, during, or after fabrication.

Typical Accreditations:

- Concrete—ASTM C 1077
- Masonry –ASTM C 1093
- 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

Testing Agencies

For testing 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 or not 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).

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) document SNT-TC-1A on NDE (and ESM Chapter 13 on 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 Fabricator Inspection Programs for Reinforced Concrete \(AC157\)](#)
- ICC-IAS [Accreditation Criteria for Fabricator Inspection Programs for Structural Steel \(AC172\)](#)
- 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

LBO-APPROVED FIRMS

Allwyn See NV5

Craig True, Quality Manager,
craig.true@bluescopebuildings.na.com

Amec see Wood Group

Audit History: EL/DB: 2017-5-23 LBO ES-DO: 17-021 6/27/17. IAS [MB-147](#) through 1/1/2021; no AISC 6/2017 TO.

Bauman Industrial Labs, LLC
813 PASEO DEL RIO PLACE SW
ALBUQUERQUE, NM 87105

505-250-6328

Patrick Bauman atomicpat@msn.com;
Paul Bauman 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

Bridge Brothers
1435 BLECKLEY ST
ANDERSON, SC 29625

[866-806-0847](tel:866-806-0847)
<https://bridgebrothers.com/>

Approved to perform: Aluminum pedestrian structure fabrication only.

Jacob Barnes, Eng Mgr,
engineering@bridgebrothers.com
Aaron Gentilucci, sales@bridgebrothers.com

Audit history: LBO: 5/29/19 DB (ES-DO-19-014)

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

(559) 651-5300
<http://www.bluescopebuildings.com/>

Approved to perform: Steel fabrication

Dan Kumm, President,
dan.kumm@bluescopebuildings.na.com

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

Shipping: 414 BIBB INDUSTRIAL DR
Mailing: PO Box 1228
LAS VEGAS NM 87701-1228

505-718-3030 fax: 505-425-9159
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

Audit history: LBO: 10/18/2011 JLR (ES-DO: 12-001) Certifications last verified: 3/25/20 MNO

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

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

Greg Krause, General Mgr, gkrause@coreslab.com
Matthew Manning, QC Mgr,
mmanning@coreslab.com
Joseph Lujan, QC Supervisor, jlujan@coreslab.com
David Baird, Project Mgr, dbaird@coreslab.com

Audit History: LBO 12/12/19 (SRG) (ES-DO: 20-014, 1/6/2020).

CTL | Thompson

1971 W 12TH AVE
DENVER CO 80204-3415

303-825-0777 fax: 303-825-4252
<http://www.ctlthompson.com/>

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

Eng Manager: Damon Thomas, PE
dthomas@ctlthompson.com

Audit history: LBO 4/8/2011 JLR (ES-DO 11-018)
Certifications last verified: 4/1/20 MNO

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

4400 ALAMEDA BLVD. NE, SUITE C
ALBUQUERQUE, NM 87113-1520

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

Audit history: LBO: 4/6/2015 RT (ES-DO: 15-018, 4/7/15). Certs last verified: 3/25/20 MNO

Diversified Metal Products, Inc.

3710 N. YELLOWSTONE HWY
IDAHO FALLS, ID 83401

208-529-9655 fax: 208.529.9836
<http://www.diversifiedmetal.com/>

Approved to perform: Steel fabrication

Tony Pascoe, Business Development Representative, tonyp@diversifiedmetal.com
Mike Henderson, Pres
Rebecca McCellan, QA Mgr

Audit History: KK: 2017-6-1 LBO ES-DO: 17-012 6/7/17. No AISC 6/2017 TO.

Great Denver Iron, Inc.
4975 JACKSON ST
DENVER CO 80216-3017

303-991-0537 fax: 303-991-0538
<http://www.greatdenveriron.com/>

Approved to perform: Steel fabrication; however,
LBO reevaluation required before next use.
Seismic force/load resisting work requires re-
evaluation/approval.

Bill Dowd, Owner & GM, bill@greatdenveriron.com

Audit history: JLR/DAB (ES-DO: 11-021,
7/28/2011) Certifications last verified: [AISC](#) BU
current 6/2017 TO

Hirschfeld Industries

112 WEST 29TH STREET
SAN ANGELO TX, 76903

325-486-4201
info@hirschfeld.com
<http://www.hirschfeld.com/>

Approved to perform:
NDE: Ultrasonic, Magnetic Particle, Visual and
AWS-CWI methods. **Requires re-evaluation
prior to use.**

Contact: Dennis Hirschfeld, CEO,
dennis.hirschfeld@hirschfeld.com

Audit history: Fab 3/13/15 KK (ES-DO: 15-015,
3/13/15); NDE: PB 4/9/15 (ES-DO: 15-019).
No AISC 6/2017 TO.

IMR Metallurgical Services - Louisville

4102 BISHOP LANE
LOUISVILLE KY 40218-4504

502-810-9007 fax: 502-810-0380
http://www.imrtest.com/index_louisville.html

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

Lab Director: Mr. Brett Miller, PE: KY 23339,
bmiller@imrlouisville.com
Director of Metallurgy: Tom Ackerson, PE,
tom.ackerson@imrtest.com

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

Independence Steel & Rigging, LLC

PO BOX 738
PIMA, AZ 85543-0738
(near Safford, AZ)

Owner/Dir. Of Ops: Nick DeRusha

Audit history: INP-103286-0012 r1 7/23/2018
TD/DB, ES-DO: 18-021 8/10/2018

IRISNDT

1115 WEST 41ST ST
TULSA, OK 74107

918-446-8773
usinfo@irisndt.com
www.irisndt.com/us/

Approved to perform: NDE using VT, RT, PT, MT,
and UT NDT methods in the field and fab shops

Mr. Jimmy Melton, Location Manager,
jimmy.melton@irisndt.com
Mr. Kevin Wilson, US QA Manager Level III,
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.

2237 S. WEST ST CT
WICHITA, KS 67213

316-263-1318
<http://jrcmp.com/>

Approved to perform: Steel fabrication

Gary D. Richards, General Manager,
GRichards@JRCMP.com, c316-650-2685

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

Kleinfelder, Inc. See NV5

LANL

PO 1663
LOS ALAMOS NM 87545-0001

505-664-5265

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

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

Eng Manager: Jim Streit, ES-DO, 606-0600
QA Contact: Lou Kummer or Darren Meadows
Materials Test Facility: Michael Olson
Supervising ACI Level 2/Eng: Richard Rodarte

Audit history: SM-38: MAM: QPA-DO-18-013/AR(17)-017.001 Appv. 8/20/18 (ES-DO-18-023). Certifications last verified: 6/7/2017 TO

Mistras Services

6660 E 47TH AVENUE DR
DENVER CO 80216-3407

303-393-9689 fax: 303-393-9760

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

Approved to perform: NDE methods: Radiography, dye penetrant, ultrasonic, and magnetic particle.

Requires re-evaluation prior to use.

Executive: James Mikeska, Mountain Region, james.mikeska@mistrasgroup.com

Audit history: DAB/JLR (ES-DO: 11-022, 8/10/2011)

MMI Tank and Industrial Services, Inc.

3240 S 37TH AVE
PHOENIX AZ 85009-9700

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

Audit history: Initial: PB 6/11/15 (ES-DO: ES-DO-15-026, 7/9/2015). No AISC 6/2017 TO.

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: Steel fabrication on DEOS Project, with conditions (work on other projects or fab of seismic force/load resisting systems requires evaluation/approval).

Mr. Mark VanDyken, General Manager
Mr. Dana Christensen, Certifications & Standards Coordinator, 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. [IAS](#) MB-107 for metal bldgs exp. 7/1/19. No AISC 6/2017 TO.

NV5

9019-A WASHINGTON ST NE
ALBUQUERQUE NM 87113

4374 ALEXANDER BLVD NE, SUITE K
ALBUQUERQUE NM 87107

505-344-7373 fax: 505-344-1711

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

Approved to perform: General and Special inspection independent of constructor; LANL must approve inspectors. Concrete, soils, geotech testing at: (1) ABQ office and (2) TRU Waste Facility Project Site Testing Facility only.

VP and Eng/Lab/Field Manager: John North, PE,

G.E., john.north@nv5.com

QC Contact: benjamin.trujillo@nv5.com

QA Mgr: robert.abeyta@nv5.com

Kevin Clah, kevin.clah@nv5.com

Audit history: As Kleinfelder: ABQ 9/6/13 JLR [ES-DO 13-016] TRU: RT 2/3/2015 [ES-DO 15-010]. Allwyn acceptance: ES-DO 15-022 (5/6/15). NV5 acceptance: Testing: ES-DO-15-025 (7/8/15); insp: ES-DO-20-021 (2/13/20). Certifications last verified: 3/25/20 MNO

Premier NDT Services, Inc.

2198 BLOOMFIELD HWY
FARMINGTON NM 87401

505-325-1407

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

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

QA Contact: Rick Humphreys,

rhumphreys@premiersteelservices.com

Audit history: LBO: 5/2019 (ES-DO: 19-011);
Certifications last verified: [AISC BU](#) current 6/2019
TO. Work history: RLUOB, DARHT W.E.

RedGuard, LLC

401 W 47th ST SOUTH
WICHITA, KS 67217

855-733-4827

<https://redguard.com/>

Approved to perform: Steel fabrication

Mr. Tim Scheer, Project Manager,

tims@redguard.com

Audit History: KK: 2017-6-9 LBO ES-DO: 17-019
6/16/17). No AISC 6/2017 TO.

Stork Testing and Metallurgical Consulting, Inc.

222 CAVALCADE STREET - or- P.O. BOX 8768
HOUSTON TEXAS 77009

1-888-STORK55 (786-7555) or 713-692-9151 fax:
713-696-6307

<http://www.storksmt.com>

E-Mail: info.tmc@us.stork.com

Approved to perform (Houston location/staff only): NDE of these types: liquid penetrant, magnetic particle, and ultrasonic testing.

Requires re-evaluation prior to use.

Contact: Mr. Neal Ferguson

Audit history: LBO: 12/20/10 (ES-DO 11-012)

Terracon

4905 HAWKINS ST NE

ALBUQUERQUE NM 87109-4345

505-797-4287 fax 505-797-4288

<http://www.terracon.com/offices/albuquerque/>

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

Dept and QA/QC Manager: Hugo Carreon,

hmcarron@terracon.com

Lab and field supervisor, LANL Project Mgr: Mr.

Sadeke Konte, askonte@terracon.com

Office/Eng Manager: Mike Anderson, PE (NM 12132), meanderson@terracon.com

Audit history: LBO: 9/6/13 JLR 9/9 em

Certifications last verified: 3/25/20 MNO

Western Technologies, Inc.

8305 WASHINGTON PL NE
ALBUQUERQUE, NM 87113

505-823-4488 fax 505-821-2963
www.wt-us.com/w/

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

Eng Manager Jeff Boyd, PE (NM 12412),
j.boyd@wt-us.com

QA Contact: Andrew L. Cuaderes, Sr., VP/Dir,
a.cuaderes@wt-us.com 505-823-4488

NDE: Clifford Pettigrew, Senior Special Inspector,
c.pettigrew@wt-us.com

Field and lab supervisor: Justin Kelly

Audit history: NDE: 3/1/2011 KB (ES-DO 11-017);
LBO: 9/6/13 JLR 9/9 em; Insp: ES-DO-20-030
3/24/20. Non-NDE certs last verified: 3/25/20
MNO

**Wood Group/AMEC Foster Wheeler
Environment & Infrastructure Inc.**

8519 JEFFERSON ST NE
ALBUQUERQUE NM 87113-1603

505-821-1801
<http://www.woodplc.com/>

ABQ office only approved to perform: concrete, masonry, soils, geotech testing, general and Special inspection (LANL must approve inspectors).

Hugo Carreon, QA and Mgr of Tech Services
hugo.carreon@woodplc.com

Dan Kwiecinski, P.E., VP, Eng
Manager dan.kwiecinski@woodplc.com

Abe Sandoval, Materials Dept Branch Mgr
abe.sandoval@woodplc.com

Saul Alanis, Project Manager
saul.alanis@woodplc.com

David A. Kondziolka, P.E., consultant
dave.kondziolka2@woodplc.com

Ken Wylie, P.E., ken.wylie@woodplc.com

Jason Olivar, Lab Supervisor,
Jason.Olivar@woodplc.com

Audit history: LBO: 9/6/13 JLR 9/9 em. Insp. per
IQPA-DO:19-108, ES-DO-19-015 (7/24/19).
Certifications last verified: 3/25/20 MNO

Yearout Industrial, LLC.

8501 WASHINGTON ST NE
ALBUQUERQUE, NM 87113

505-884-0994 fax 505-883-5073

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

Contact: Bryan Yearout, President c: 505-991-5062, bryan@yearout.com

Audit history: KB 12/2015; LBO 12/16/15 (ES-DO-16-002). No AISC 6/2017 TO.

LBO-APPROVED PRODUCTS

General

LBO approval of suppliers and manufactured products for structural and other work is governed by ESM Chapter 16 Section [IBC-GEN](#) (*Section 8.0*).

Also at time of writing, IBC-GEN (Rev. 11, 11/29/2018) said:

8.1. 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. Such components are automatically approved by the LBO if they are PI anchors used in a seismically exempt application (see definition).¹ 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 or ER report from IAPMO valid for the code edition in use or newer edition²) AND
2. The design and installation complies 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.

B. 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.³

1. LADBS are at <http://netinfo.ladbs.org/rreports.nsf>

C. Other special case components not automatically approved as noted above must be submitted to the ES-EPD Structural Team which will broker LBO approval prior to use.⁴ *Guidance: This may involve derating; e.g., using less tension and/or shear capacity than documented for a concrete anchor /embedding, using a mechanical rebar splice /coupler capacity that results in the final assembly 'performing' only within elastic region, etc.*

¹ Incorporates and supersedes CIR-16-002 and outcome of a 5/2016 meeting re Electrical-Safety-Based Penetration Rule & Installation of Seismically-Exempt P-I Anchors (GP minutes dated 5/25). Safety class and safety significant items used in nuclear facilities are required to be procured from an ASME NQA-1 qualified supplier or require a commercial grade dedication.

² When a given product's research report isn't compliant with the applicable IBC edition, contact ESM POC for guidance

³ LADBS Building Code tab Information Bulletin IB/P/BC-2014-119 — *Alternate Building Materials/Products Approval Requirements* [LADBS IB website](#)

⁴ *In addition to this requirement to obtain LBO approvals, it is important to note that the general focus of ML-1/2 is primarily a quality assurance evaluation of the manufacturer's or supplier's quality program. The focus of IBC Ch.17 is to assure that proper independent testing has been accomplished.*

Specific Product Approvals

Products listed in LANL Master Specifications shall be considered LBO-approved for IBC use.

Disclaimer: Listed products and service providers have received LBO approval within the context discussed by this document. They are not an endorsement of any product or provider beyond that approval, nor guarantee of future work/sales. Finally, they do not imply that other products or providers will necessarily be unacceptable if submitted for approval; that depends upon subsequent LBO evaluation.