

LANL Building Official

Listing of Approved IBC Testing Agencies, Fabricators, and Products

December 8, 2016

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.

For testing 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.

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 website).

This LBO listing includes (in a single listing):

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. Shop fabricators of steel 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:

1. Testing Agencies: Randy Teel, Chief Inspector (505-606-0521; rteel@lanl.gov)
2. Fabricators and Special Inspection: Kevin Krank, Chief Inspector (505-606-0580; krank@lanl.gov).
3. Welding: David Bingham, Welding Chief Inspector (505-664-0416, dbing@lanl.gov)
4. NDE: Kelly Bingham, 505-667-6167, kellyb@lanl.gov

For administrative (e.g., personnel) updates please notify oruch@lanl.gov

Testing Agency and Fabricator Summary of Approvals

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

New Mexico

Firm	Concrete (C)	Masonry (M)	Metal ID Testing (ID)	NDE (NDE)	Soil (S)	Geotech Testing (G)	Steel Fab (SF)*	Concrete Prefab (CP)	Comments
Allwyn Environmental									See NV5
Amec Foster Wheeler	X	X			X	X			ABQ office only
Concrete, Aggregate, and Asphalt Testing	X				X				Las Vegas, NM
Daniel B. Stephens & Associates						X			ABQ, within scope of AMRL certifications
Kleinfelder									See NV5
LANS (LANL)	X		X	X	X		X		Fab at SM-38 only. All inspections by CM-CE. CM-CE/LBO reevaluation required upon next use.
Mesa Steel							X		Santa Fe
NV5 (formerly Allwyn and Kleinfelder)	X				X	X			ABQ office, TWF Project Site Testing Facilities only
Premier NDT Services				X					Farmington
Terracon Consulting	X				X	X			ABQ office only
Western Technology	X			X	X	X			ABQ office only
Yearout Industrial							X		ABQ

Weld inspection approval is not above but via [this](#) internal LANL website database

- * 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.

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
CTL-Thompson Testing Agency, Denver	X								Only durability testing per ASTM C 666, prisms in water tank.
Great Denver Iron							X		Denver, CO. CM-CE/LBO reevaluation required upon next use.
Hirschfeld Industries				X			X		San Angelo, TX plant; NDE: Ultrasonic, Magnetic Particle, Visual and AWS-CWI; fab approval currently limited to TWF Project.
IMR Metallurgical Services, Louisville KY			X						Full range of mechanical and chemical testing of metals
Mistras Services, Denver				X					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.
Premier Steel Fab, Tulsa							X		CM-CE/LBO reevaluation required upon next use.
Stork Testing and Metallurgical Consulting, Houston				X					Houston location/staff only: liquid penetrant, magnetic particle, and ultrasonic testing only

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 [AMRL](#) 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

Amec Foster Wheeler Environment & Infrastructure Inc.

8519 JEFFERSON ST NE
ALBUQUERQUE NM 87113-1603

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

ABQ office only approved to perform: concrete, masonry, soils, geotech testing (but not D4829)

Dan Kwiecinski, P.E., VP, Eng
Manager dan.kwiecinski@amecfw.com
Abe Sandoval, Materials Dept Branch Mgr
abe.sandoval@amecfw.com
David A. Kondziolka, P.E., consultant
dave.kondziolka2@amecfw.com
Ken Wylie, P.E., ken.wylie@amec.com
Jason Olivar, Lab Supervisor,
Jason.Olivar@amec.com

Audit history: LBO: 9/6/13 JLR 9/9 em
Certifications last verified: 11/8/16 RT

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: 425-9159
www.ca2testing.net

Approved to perform: concrete (including durability); soils testing but not T88, 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: 11/8/16 RT

CTL | Thompson

1971 W 12TH AVE
DENVER CO 80204-3415

303-825-0777 fax: 303-825-4252
<http://www.cltl.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: 4/7/15 RT

Daniel B. Stephens & Associates, Inc.

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

505-889-7752 fax: 889-0258
<http://www.dbstephens.com/>

Approved to perform: Geotech testing within scope of AMRL certifications

Joleen Hines, Laboratory Ops Manager,
jhines@dbstephens.com

Audit history: LBO: 4/6/2105 RT (ES-DO: 15-018, 4/7/15). Certifications last verified: 11/8/16 RT

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, CM-CE/LBO reevaluation required
upon next use. Also, fab of seismic force/load
resisting systems requires evaluation/approval.

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

Audit history: JLR/DAB (ES-DO: 11-021,
7/28/2011) Certifications last verified: [AISC](#)
STD current 2/2015

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
Steel fab: Currently limited to TWF Project at
San Angelo facility. Future fab of seismic
force/load resisting systems requires re-
evaluation/approval.

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)

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)

Kleinfelder, Inc. See NV5

LANS (LANL)
PO 1663
LOS ALAMOS NM 87545-0001

505-664-5265
<http://www.lanl.gov/>

Approved to perform: concrete, soils (D4318
pending) metals ID, NDE, steel fabrication (SM-
38 only), weld inspection; however, CM-CE/LBO
reevaluation required upon next use. Also, fab
of seismic force/load resisting systems requires
evaluation/approval.

Eng Manager: Larry Goen, ES-DO, 606-0600
QA Contact: R'ami Spain, QPA-DO, 667-8484
Materials Test Facility: Carl Sowers;
Supervising ACI Level 2/Engineer: S. Luke
Myers

Audit history: JLR/PH Certifications last
verified: 11/8/16 RT

Mesa Steel, Inc.

2870 TRADES WEST ROAD
SANTA FE NM 87507-3124 [map](#)

505-474-6811
<http://mesasteel.com/>

Approved to perform: Steel fabrication (fab of seismic force/load resisting systems requires evaluation/approval).

Contact: David Mittle, President,
david@mesasteel.com
QA Contact: Nicole Wesley

Audit history: LBO: 9/27/2010 (ES-DO: 11-001)
Certifications last verified: [AISC](#) STD current 2/2015

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

Executive: James Mikeska, Mountain Regional, 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 (fab of seismic force/load resisting systems requires 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)

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 (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: DB 11/2016 (ES-DO: 17-004)
Certifications last verified: 11/29/16 TO

NV5

9019 WASHINGTON ST NE
STE/BUILDING A
ALBUQUERQUE NM 87113-2435

505-344-7373 fax: 505-344-1711
<http://www.nv5.com/>

Approved to perform: 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

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: ES-DO-15-025 (7/8/15)
Certifications last verified: 11/8/16 RT

Premier NDT Services, Inc.
2198 BLOOMFIELD HWY
FARMINGTON NM 87401-8108

505-325-1407
www.premierndt.com/

Approved to perform: NDE methods:
Radiography, liquid penetrant, ultrasonic,
magnetic particle, visual, and AWS-CWI.

Contact: Cody Nygern, VP Operations

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

Premier Steel Services, LLC
7600 NEW SAPULPA RD
TULSA OK 74131-3235

918-227-0110; fax: 918-227-0113
premiersteelservices.com

Approved to perform: Steel fabrication;
however, CM-CE/LBO reevaluation required
upon next use. Also, fab of seismic force/load
resisting systems requires re-evaluation/
approval.

Eng Manager Andy L. Vanaman, President,
avanaman@premiersteelservices.com
QA Contact: Rick Humphreys,
rhumphreys@premiersteelservices.com

Audit history: LBO: 10/29/07 based on Phelan
9/07; Certifications last verified: [AISC STD](#)
current 2/2015. Work history: RLUOB.

**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

Contact: Mr. Neal Ferguson
Audit history: LBO: 12/20/10 (ES-DO 11-012)

Terracon Consulting
4905 HAWKINS ST NE
ALBUQUERQUE NM 87109-4345

505-797-4287 fax 505-797-4288
www.terracon.com

Approved to perform: concrete, soils geotech
testing
ABQ office only.

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: 11/8/16 RT

Western Technologies, Inc.
8305 WASHINGTON PL NE
ALBUQUERQUE, NM 87113-1670

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

Approved to perform: Concrete, soils (except
T88, D422), geotech testing, and NDE using
radiography, dye penetrant, ultrasonic, and
magnetic particle. ABQ office only.

Eng Manager Jeff Boyd, PE (NM 12412),
j.boyd@wt-us.com
QA Contact: Andrew L. Cuaderes, Sr., VP,
a.cuaderes@wt-us.com
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
Certifications last verified: 11/8/16 RT

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 systems requires evaluation/ approval).

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

Audit history: KB 12/2015; LBO 12/16/15 (ES-DO-16-002)

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. 10, 10/6/2016) 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.
- A. Such components are automatically approved by the LBO if they are PI anchors used in a seismically exempt application (see definition). 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 edition) 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 and Master Specs.¹
1. *LADBS and ICC reports (and others) are aggregated at [ApprovalZOOM.com](#)*
- 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...

Specific Product Approvals

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

Drillco anchors are no longer listed below because they now have an ESR report.

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.

¹ LADBS Information Bulletin (IB) P/BC-2011-119 — *Alternate Building Materials/Products Approval Requirements* [LADBS IB website](#)