LANL Building Official

Listing of LBO-Approved
IBC Work Testing Agencies, Inspection Agencies, Fabricators, and Products
January 9, 2020

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).

This LBO listing includes (in a single document):

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:

2. Welding: David Bingham, Welding Chief Inspector (505-664-0416, dbing@lanl.gov)
3. NDE: Kelly Bingham, 505-667-6167, kellyb@lanl.gov

For administrative (e.g., personnel) updates please notify oruch@lanl.gov
### Testing Agency, Inspection Agency, and Fabricator Summary of Approvals

CAUTIONS: 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

<table>
<thead>
<tr>
<th>Firm</th>
<th>Concrete Testing (C)</th>
<th>Masonry (M)</th>
<th>Metal ID Testing (ID)</th>
<th>NDE (NDE)</th>
<th>Soil (S)</th>
<th>Geotech Testing (G)</th>
<th>Steel Fab (SF)*</th>
<th>Concrete Prefab (CP)</th>
<th>Inspection</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete, Aggregate, and Asphalt Testing</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Las Vegas, NM</td>
</tr>
<tr>
<td>Coreslab Structures</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ABQ facility only</td>
</tr>
<tr>
<td>Daniel B. Stephens &amp; Associates</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ABQ, within scope of AASHTO certifications</td>
</tr>
<tr>
<td>LANL (e.g., Triad, LLC)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>Fab at SM-38 only with all inspections by CONSTRENGRS. General and Special inspection.</td>
</tr>
<tr>
<td>NV5 (formerly Allwyn and Kleinfelder)</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ABQ office, TWF Project Site Testing Facilities only</td>
</tr>
<tr>
<td>Premier NDT Services</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td>Farmington</td>
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<tr>
<td>Terracon</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ABQ office only</td>
</tr>
<tr>
<td>Western Technology</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ABQ office only</td>
</tr>
<tr>
<td>Wood Group/Amec Foster Wheeler</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td>ABQ office only. General and Special inspection. LANL must approve inspectors.</td>
</tr>
<tr>
<td>Yearout Industrial</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td>ABQ</td>
</tr>
</tbody>
</table>

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

* 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

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM D2487</td>
<td>Standard Procedure for Classification of Soils for Engineering Purposes</td>
</tr>
<tr>
<td>ASTM D2488</td>
<td>Practice for Description and Identification of Soils (Visual-Manual Procedure)</td>
</tr>
<tr>
<td>ASTM G57</td>
<td>Standard Practice for Soil Resistivity Using the Wenner Four-Electrode Method</td>
</tr>
</tbody>
</table>

Laboratory Method List

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM D422</td>
<td>Standard Test Method for Particle-size Analysis of Soils</td>
</tr>
<tr>
<td>ASTM D1557</td>
<td>Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort</td>
</tr>
<tr>
<td>ASTM D2216</td>
<td>Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass</td>
</tr>
<tr>
<td>ASTM D3740</td>
<td>Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction</td>
</tr>
<tr>
<td>ASTM D3080</td>
<td>Test Method for Direct Shear of Test of Soils Under Consolidated Drained Conditions</td>
</tr>
<tr>
<td>ASTM D4318</td>
<td>Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils</td>
</tr>
<tr>
<td>ASTM D4546</td>
<td>Test Methods for One-Dimensional Swell or Collapse of Soils</td>
</tr>
<tr>
<td>AASHTO T-193</td>
<td>Standard Method of Test for the California Bearing Ratio</td>
</tr>
</tbody>
</table>

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 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**

**AALwyn**  See NV5

**Amec**  see Wood Group

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


**Bridge Brothers**  
1435 BLECKLEY ST  
ANDERSON, SC 29625

866-806-0847  
https://bridgebrothers.com/

Approved to perform:  Aluminum pedestrian structure fabrication only.

Jacob Barnes, Eng Mgr,  
eengineering@bridgebrothers.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, 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:  6/7/2017 TO
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  
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.ctlthomson.com/  
Approved to perform: concrete durability testing per ASTM C 666 only, Denver Office only  
Eng Manager: Damon Thomas, PE  
dthomas@ctlthompson.com  

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  

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  
**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. Seismic force/load resisting work requires re-evaluation/approval.  

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

Audit history:  

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**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  


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**Independence Steel & Rigging, LLC**  
PO BOX 738  
PIMA, AZ 85543-0738  
(near Safford, AZ)  
Owner/Dir. Of Ops: Nick DeRuska  
Audit history: INP-103286-0012 r1 7/23/2018 TD/DB, ES-DO: 18-021 8/10/2018  

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**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  


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**Kleinfelder, Inc.**  
See NV5  

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**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), 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/Engr: Richard Rodarte  


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**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 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


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


NV5
9019 WASHINGTON ST NE
STE/BUILDING A
ALBUQUERQUE NM 87113

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.

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.

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

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  


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  
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.  
Dept and QA/QC Manager: Hugo Carreon,  
hmcarreon@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: 5/8/2018 TO  

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, 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  
Non-NDE certs last verified: 5/8/2018 TO  

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.
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
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Jason.Olivar@woodplc.com

Certifications last verified: 6/7/2017 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. 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 including Master Specs, when used in non-nuclear service and with any applicable conditions placed by LADBS.

   1. LADBS are at [http://netinfo.ladbs.org/reports.nsf](http://netinfo.ladbs.org/reports.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. 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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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


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.