Scientific/SAofEE Mechanical Anchors: Inspection Checklist
SLAC Environment, Safety and Health Field Safety and Building Inspection Office
Special Inspection in accordance with the California Building Code (CBC), Chapter 17

Building #: ___________________________ Room #: ___________________________
Project name: ___________________________ Project location: ___________________________

Project plans, specifications and manufacturer’s installation instructions are provided and were reviewed:

- Yes
- No (Do not proceed: contact project manager for direction)

Weather (check all that apply):
- Clear
- Overcast
- Rain
- Windy
- Indoor
- Air temp: _______ degrees Fahrenheit

Manufacturer: ___________________________ Lot number: ___________________________
Product Name: ___________________________ ICC – ESR # _______

Head configuration:
- Hex nut / threaded
- Hex bolt head
- Torque cap
- Countersunk

Diameter / Dimension:
- 1/4”
- 3/8”
- 1/2”
- 5/8”
- 3/4”
- 1”
- M8
- M10
- M12
- M16
- M20
- M24

Number of Bolts: _______

Overall anchor length: _______ inches

Base material type:
- NW concrete
- LW Concrete
- LWC over steel deck
- CMU block
- Other: ___________________________

Base material strength (psi):
- 2000
- 2500
- 3000
- 4000
- 5000
- Other: ___________________________

Base material thickness: _______ inches

Drill bit diameter: _______ inches

Drill bit type:
- Carbide-tip drill bit (ANSI B212.15-1994)
- Diamond core bit (if appropriate and allowed)
- Other: ___________________________

Hole depth: _______ inches

Drilling & Hole Cleaning

- Compressed air
- Hand pump
- Wire brush
- Nylon brush
- Vacuum
- Other: ___________________________

Hole condition:
- Dry
- Water saturated
- Water Filled
- Underwater

Anchor application (check all that apply):
- Tension
- Shear
- Overhead
- Other: ___________________________

Anchor spacing: _______ inches

Edge distance: _______ inches

Effective embedment depth (*h,e*):

- *h,e* = depth measured from the concrete surface to the deepest point at which the anchor tension load is transferred to the concrete, measured prior to applying torque to the anchor (see diagram).

Installation torque: _______ ft-lb/Nm

Responsible Engineer (print name): ___________________________ Date: ___________________________
Responsible Engineer Signature: ___________________________ Phone number: ___________________________

Date of Submittal to BIO: ___________________________ (Contact Plan Check Coordinator, Cheryl Nadler, cnadler@slac.stanford.edu [x4363])