STATE OF CALIFORNIA

Gray Davis, *Governor*

DEPARTMENT OF INDUSTRIAL RELATIONS
DIVISION OF OCCUPATIONAL SAFETY AND HEALTH
455 Golden Gate Avenue, 10th Floor
San Francisco, CA 94102-3677

ADDRESS REPLY TO:
P.O. BOX 420603
San Francisco, CA 94142-0603

January 7, 2003

Mr. David Cave
Jax Scaffold Systems LLC
999 Linda Vista Drive, Suite B
San Marcos, CA 92069

Subject: Jax Bracket Scaffold System
Construction Safety Order Section 1645

Dear Mr. Cave:

The Division reviewed the engineering report prepared by Gregg A. Schroeder, PE #S1934 and the report of testing conducted by Smith Emery Laboratories verifying the design of the bracket Carpenter Scaffold and guardrail system used for wood frame building perimeter access. The bracket scaffold frames are designated to be installed at a spacing of not more than 10 feet, provided with two or three 2x10-inch nominal manufactured planks, and guardrails at least 42 inches above the working surface. The bracket scaffold guardrails are covered by the design for Jax Corral System and extend across the backside and ends of the platform.

The Jax bracket scaffolds are designed to support one 250-pound worker with tools per span of scaffold with a safety factor of four. Provisions are also made to stack two 40-inch high scaffold frames on the scaffold bracket for additional work platform height at the gable end of buildings. The design was not verified for the load of a person falling from the roof onto the scaffold platform. As represented by the engineering calculations and drawings, the Jax Scaffold System meets the requirements of Construction Safety Order Section 1645(d), Title 8, California Code of Regulations, when installed and used according to the manufacturer's instructions.

The scaffold platform is about 22 inches below the top plate providing worker access to truss or rafter tails, fascia installation and sheeting installation. The inboard side of the scaffold is partially protected from interior falls by the top plate except when the interior floor height is more than 7-1/2 feet below the scaffold platform. Interior protection would be required for the scaffold when the interior fall exposure is more than 7-1/2 feet below the platform until trusses or rafters on not more than 24- inch centers are installed.

If you have additional questions related to this subject please contact me at 415-703-5163.

Sincerely,

Larry McCune

Larry McCune, PE
Principal Safety Engineer
DOSH Research and Standards Unit

cc: Senior Safety Staff
File: 1645

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November 26, 2002

Mr. David Cave
Jax Scaffold Systems LLC
999 Linda Vista Drive, Suite B
San Marcos, CA 92069

Subject: Temporary Guardrails
Jax Corral System
Construction Safety Order Section 1620

Dear Mr. Cave:

The Division has reviewed the engineering report prepared by Gregg A. Schroeder, PE #S1934 and the testing conducted by Smith Emery Laboratories verifying the design of the temporary metal post and guardrail system used for wood frame building perimeter edge protection. The posts are secured to the structure at intervals not to exceed 10 feet by four Simpson 1/4-inch x 1-1/2-inch SDS screws. Conventional metal scaffold snap-in guardrails are specified to be 42 to 45 inches above the floor sheeting.

Title 8, California Code of Regulations (CCR), section 1620 specifies the design requirements of such guardrails. The testing report indicates that metal post guardrail system will sustain a 200-pound horizontal or downward load without failure and exceeds the design requirements specified by section 1620(f). If the metal post guardrail system is installed according to the manufacturer's instructions and maintained 42-45 inches above the floor level it will meet the regulations for construction guardrails specified by Title 8, section 1620. Toeboards may be required by section 1621(b) at interior floor openings or above passageways.

If you have additional questions related to this subject please contact me at (415) 703-5163.

Sincerely,

Larry McCune, PE
Principal Safety Engineer
DOSH Research and Standards Unit

cc: Senior Safety Staff

File: 1620