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. Paolo Bazzurro .

Department of Civil
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(PDF) Advanced seismic assessment guidelines

The objective of this document is to provide guidelines for the assessment of the seismic performance of existing structures that are common in the building inventory of major electric utility such as Pacific Gas and Electric (PG&E), a co-sponsor of the PEER Lifelines Program.

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Predicting the post-earthquake functionality of such structures is a

Advanced Seismic Assessment Guidelines - Peer Apps

This document presents guidelines for a practical assessment of the seismic performance of existing structures. Performance is measured in terms of

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the likelihood that a building, given a level of ground motion, can be in any one of five structural limit states after an earthquake: onset-of-damage, green tag, yellow tag, red tag, and collapse.

PACIFIC EARTHQUAKE ENGINEERING RESEARCH CENTER

Introduction The objective of this document is to provide

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guidelines for the assessment of the seismic performance of existing structures that are common in the building inventory of major electric utility such as Pacific Gas and Electric (PG&E), a co-sponsor of the PEER Lifelines Program.

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Paolo Bazzurro, C. Allin
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Cornell, Charles
Menun, Maziar
Motahari, and Nicolas
Luco, "Advanced
Seismic Assessment
Guidelines", July, 2004.
(To be submitted for
publication as a PEER
report.)

Final Project Summary — PEER Lifelines Program

PEER research on
seismic performance
assessment is
approaching the end of

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its second year. Much has been accomplished, but the end of the road still looks far away. In this brief article we describe the foundation on which performance assessment can be based, and the major challenges to the PEER research community on the way to expected success.

Progress and
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**Challenges in
Seismic Performance
Assessment**

Advanced Seismic Assessment Guidelines, applicable to utility buildings, were developed by Stanford University (Bazzurro et al. 2004) as part of the PEER Lifelines Program, Building Vulnerability Studies (Project Task Number 507). The subject project, Task 508, applies these state-of-the-art

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guidelines in a detailed fashion to two example buildings, each with differing features and functions within the electric and gas utility network.

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PEER 2006/05 -

Advanced Seismic
Assessment Guidelines

P. Bazzurro, C. Cornell,

C. Menun, M. Motahari,

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N. Luco -Report PEER
2006/04 - Probabilistic
Seismic Evaluation of
Reinforced Concrete
Structural Components
and Systems T-H. Lee,
K. Mosalam -Report
PEER 2006/03 -
Performance of
Lifelines Subjected to
Lateral Spreading

**PEER Reports |
Pacific Earthquake
Engineering
Research Center**

E) Any building that

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has undergone a comprehensive seismic retrofit since 2000 (as confirmed by the SAB per UC Seismic Program Guidelines) is exempted from further Policy-required evaluation or retrofit for 25 years from the date of the retrofit design standard being used (e.g., 2017 if ASCE 41-17 is used), except when the SAB determines re ...

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**RD4.3: UC Seismic
Program Guidelines |
UCOP**

The Guidelines provide methods for two levels of assessment: Initial Seismic Assessment, for a broad indication of the likely level of seismic performance of a building, and Detailed Seismic Assessment, for a more comprehensive assessment. Both seismic assessment methods rate a

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building as a percentage of the new building standard applied to an equivalent new building on the same site.

The Seismic Assessment of Existing Buildings

PEER-2005/11 Van Nuys Hotel building testbed report: exercising seismic performance assessment,

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Krawinkler, Helmut.
PEER-2005/12 PEER
testbed study on a
laboratory building:
exercising seismic
performance
assessment, Comerio,
Mary C. PEER-2005/13
Stochastic
characterization and
decision bases under
time-dependent
aftershock risk in
performance ...

**The Earthquake
Engineering Online**

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PEER-2006/02 Pacific
Earthquake

Engineering Research
Center Highway ...

Ashford, Scott A.;

Juirnarongrit, Teerawut.

PEER-2006/04

Probabilistic seismic
evaluation of
reinforced concrete
structural components
and systems, Lee, Tae-
Hyung; Mosalam,
Khalid M.

PEER-2006/05

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Advanced seismic
assessment guidelines,
Bazzurro, Paolo ...

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Earthquake
Engineering (PEER)
Lifelines Program, built
on the methods and
concepts described
above to develop
Advanced Seismic
Assessment Guidelines
(Bazzurro et al.

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2004). The Guidelines were developed for the seismic assessment of utility buildings but are applicable to most types of structures. Features of the Guidelines include:

Probability-Based Seismic Assessment of Buildings ...

We adopted PEER's performance-based assessment, which yielded a statistical view of expected

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seismic responses of skew-angled bridges. It is anticipated that these results will play a role in future efforts on developing improved guidelines for seismic design and modeling of skewed bridges.

Performance Based Seismic Assessment of Skewed Bridges

...

Within PEER, this project is integrally related to Task 507,

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the development of the Advanced Seismic Assessment Guidelines. Task 508 is similar to Task 2 of this project in its investigation of the use of the guidelines, in which a steel moment frame building was studied. This project applies the guidelines to a different type of construction, a

**Final Project
Summary — PEER**

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Lifelines Program

Bazzurro P, Cornell CA,
Menun CA, Motahari M,
Luco N (2006)

Advanced seismic
assessment guidelines,
PEER 2006/05. Pacific
Earthquake
Engineering Research
Center, University of
California, Berkeley.
Google Scholar

**Assessment of the
seismic capacity of
mainshock-damaged**

...

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Reliable assessment and effective improvement of seismic performance of structures are two major challenges in earthquake engineering research which need to be addressed properly through detailed investigations and innovative approaches.

Advances in Seismic Performance Assessment and

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Improvement ...

Guidelines and
Procedures for
Implementation of the
Executive Order on
Seismic Safety of New
Building Construction
PDF 16MB: NISTIR 4852
(ICSSC RP 2.1-A)
Guidelines for Design
of Structures for
Vertical Evacuation
from Tsunamis: FEMA
P646 : Guidelines for
Performance-Based
Seismic Design of Tall
Buildings: PEER

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2010/05

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2015 News. 12/22/15 -
New PEER Report

2015/11: "Selection
and Scaling of Ground
Motions for Nonlinear
Response History
Analysis of Buildings in
Performance-Based
Earthquake

Engineering" 12/10/15
- PEER Receives ATC-
SEI Award for TBI

Guidelines 12/08/15 -

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New PEER Report
2015/10: "Structural
Behavior of Column-
Bent Cap Beam-Box
Girder Systems in
Reinforced Concrete
Bridges Subjected to ...

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Engineering
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The seismic
vulnerability and
inadequate behaviour
of existing school
buildings observed

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during past
earthquakes in Italy
have raised awareness
of the...

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