UN/ECE WP 6
International Model for Technical Harmonization
Earth-Moving Machine Safety
Cooperation in Conformity Assessment
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Outline of Presentation

- Earth Moving Machines
- International Model for Technical Harmonization
- Experience With Conformity Assessment
- Improvements for Conformity Assessment
Earth-Moving Machines (EMM)
Machines for Excavating, Loading, Transporting, Spreading and Compacting Earth and Other Materials.
Industry Associations From EU, USA, and Japan Worked Together to Develop an International Model for Earth-Moving Machine Safety in 2004.

The International Model Outlined General Principles for Technical Regulations Following the WP 6 Guidelines.

The Model Uses the Technical Requirements from the ISO/TC 127 Safety Standards

The 2004 International Model Recommended Supplier’s Declaration of Conformance (SDoC) for the Compliance Clause.
Conformity Assessment Experience

- Europe, Japan, the USA and Other Areas Accept the Conformity Assessment Testing Completed by Earth-Moving Machine Manufacturers
- Developing Economies Generally Do Not Accepted SDoC, But Require Third Party Certification
- The International Model for Earth-Moving Machines Was Updated in 2008 to Address the Conformity Assessment Challenges in Developing Countries
Conformity Assessment - Challenges in Developing Economies

- Manufacturers So Far Are Not Trusted to Do Their Own Compliance Declaration
- Some Small and Medium Manufacturers Are Considered to Need Help With Conformity Assessment and Certification
- Resources for Market Surveillance Are Limited and a Third Party Conformity Assessment and Certification Process Is Considered As a Way to Compensate for the Challenges With Market Surveillance
Improved Conformity Assessment

- Long Term Goal is Still Manufacturer’s Compliance Commitment – Supplier’s Declaration of Conformity
- Most Manufacturers Complete the Conformity Assessment Testing During the Machine Development Phase
- In Some Economies Where Manufacturers Are Not Prepared to Do SDoC or Are Not Trusted Yet to Do SDoC, the Assistance of a Third Party May Be Necessary for Conformity Assessment.
- A Compromise Between SDoC and Third Party Certification Is Proposed
Improved Conformity Assessment

- Accept the Need for Third Party Certification Where It Is Still Required
- Provide Provisions to Accept Conformity Assessment Testing Already Done on Machines
- Allow Manufacturer to Work With a Third-party for Conformity Assessment. Conformity Assessment Testing That Has Already Been Done by the Manufacturer Can Be Used If the Manufacturer Has the Following:
  - A Quality Plan That Is at Least Equivalent to ISO 9000
  - A Documented Conformity Assessment Process
  - A Conformity Assessment Group to Manage the Conformity Assessment
  - Access to Conformity Assessment Facilities (Internal or External)
Summary UN/ECE Project

- Global Harmonization of Machine Requirements Based on ISO Standards Allows Global Market Access for All Manufacturers
- Allowing Some Regional Differences Is Beneficial For Developing Economies
- Conformity Assessment Is Still a Challenge
- The Proposal in the UNECE International Model for EMM Addresses This Challenge
  - Maintain Long Term Goal of SDoC
  - Recognize the Need for Third Party Assistance
  - Promote Cooperation Between the Third Party and the Manufacturer to Minimize Conformity Assessment Time and Cost