MARITIME SECURITY
CURRENT STATUS (ISO/TC8)

ANSI HOMELAND SECURITY STANDARDS PANEL
9th Annual Plenary Meeting
Arlington, VIRGINIA

2010-11-09/10

CAPT. CHARLES H. PIERSALL

Chairman, ISO/TC8

Ships & Marine Technology

ISO/TC8 – A LINKING INSTRUMENT

IMO — ISO — INDUSTRY

IMO
REQUIREMENTS
REGULATIONS

ISO
TRANSFORM
REQUIREMENTS
TO
INDUSTRY
STANDARDS
&
PROVIDE INDUSTRY
STANDARDS FOR CONSIDERATION
BY REGULATORY BODIES

INDUSTRY
SHIPYARDS ;
SHIPPERS &
TRANSPORTERS;
SHIP OWNERS/
OPERATORS ;
TERMINALS /PORTS

DELEGATIONS & PARTICIPATION IN ALL IMO COMMITTEES & SUBCOMMITTEES --ACTIVE PARTICIPANT IN IMO MARITIME SECURITY WG FROM BEGINNING

URGENT NEED FOR INTERNATIONAL MARITIME SECURITY STANDARDS

Immediately following Terrorist Attack on U.S. - 2001-09 :

1)**Admiral Jim Loy, Commandant, USCG went to IMO 22nd Assembly** to request international support in dealing with necessary maritime security indicating that this is an international problem and national solutions or unilateral government actions would not work

2) **ISO/TC8 Initiatives as *Presented to IMO 22nd ASSEMBLY***

- International "Pilot" Effort to assess intermodal cargo security while minimizing commercial disruption & *preserving company proprietary information*
- Origin to destination movement of cargo in the intermodal system, excluding aviation
- Pilot trade routes determined by our international commercial partners
- Resulting "standards actions" to be developed based on international government and industry assessments

International Maritime Organization (IMO)
International Ship & Port Facility Security Code (ISPS Code)

- **contains detailed security-related requirements for governments, port authorities and shipping companies**

- **It is intended to enable better monitoring of freight flows, to combat smuggling and to respond to the threat of terrorist attacks**

- **adopted by more than 100 countries of the International Maritime Organization, which entered into force on1 July 2004**

- **Countries that fail to observe the ISPS Code, risk being excluded from international trade.**

ISO 20858

MARITIME PORT FACILITY SECURITY ASSESSMENTS & SECURITY PLAN DEVELOPMENT

- designed to facilitate a consistent implementation of the International Ship and Port Facility Security (ISPS) Code worldwide as a way to create a safe and secure international maritime shipping regime -

  ensure that the security measures of a port facility meets the requirements of the ISPS Code, appropriate maritime security practices & that the measures can be verified by an external auditor.

- **It provides a framework to assist marine port facilities in:**
  - specifying competence of personnel to conduct a marine port facility assessment;
  - developing a security plan as required by the ISPS Code;
  - conducting the marine port facility security assessment; and,
  - drafting a port facility security plan to protect the people, ships & cargo within a port facility from the risks of a security incident.

ISO 20858 (Continued)

MARITIME PORT FACILITY SECURITY ASSESSMENTS & SECURITY PLAN DEVELOPMENT

- **It ties to ISO 28000 (Supply Chain Security Management) for certification and the remainder of ISO 28000 series, e.g.,** ISO 28002 on resilience, IS0 28004 (Guide for implementing & the amendments for small ports) and ISO 28005 (Electronic Port Clearance)-Part 1 -single window concept, Part 2 - technology & data dictionary

- **SOLAS Chapter XI-2 & ISPS CODE ENTERED INTO FORCE ON 1 JULY 2004;**

  ISO/PAS 20858 (UNIFORM IMPLEMENTATION)

  -- ISO PUBLISHED SAME DATE

  (ISO /PAS 20858 PUBLISHED IN LESS THAN 15 MONTHS)

Adoption of the 28000 by ports & terminals

- **DP World - first to certify a marine terminal and will complete ISO 28000 certifications throughout its network of 48 terminals in 31 countries worldwide by 2012 - CTPAT & AEO status granted based on ISO 28000 certification**

- **Port of Houston Authority, one of the world's largest ports, was first port authority in the world to attain ISO 28000 certification**

- **Numerous ports and marine terminals worldwide certified**

- **As Requested by IMO, ISO 28004 Amended for assisting small ports in certifying to ISO 28000**

PIRACY !!!

- *Participating with IMO*
- *Other Key Liaisons :*
  - *NATO*
  - *ISMA (International Security Management Association)- Fortune 100, Global 200 companies*
  - *EU*
- *TC8 Ship Design & Modifications*
  - *New ships- design against piracy*
  - *Existing ships- modifications, retrofit devices*
- *Modifications to ship & port security plans ?*
  - *ISPS Code- by IMO*
  - *ISO 20858, ISO 28004 (Amendments) - by ISO/TC8*
- *Modifications to ship operations ?*
  - *NATO BMP3 of June 2010*

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ISO/TC8   Ships & Marine Technology

MUCH HAS BEEN ACCOMPLISHED, BUT MUCH MORE REMAINS

WE WILL MAINTAIN COURSE & SPEED

ISO/TC8 Ships & Marine Technology

BACK-UP SLIDES

The ISO 28000 SERIES

- **ISO 28000, Supply chain security management systems- Published**

- **ISO 28001, Best practices for implementing supply chain security, assessments and plans - Published**
  Designed to assist industry meet security requirements for Authorized Economic Opera(AEO's)
- **ISO 28002, Resilience in supply chain security- PAS Published, DIS Approved**

- **ISO 28003, Auditing & Certification - Published**
  Guidance for accreditation & certification bodies

- **ISO 28004, Guide for implementing ISO 28000- Published**
  Assist users in implementing ISO 28000
  - **Four Addenda being published for special uses- small ports, small-medium size business, AEO certification assist, implementing resilience standard ISO 28002**

- **ISO 28005, Electronic port clearance**
  computer-to-computer data transmission of information related to ship's clearance in or out of a port
  - **ISO 28005-1:Electronic Port Clearance (EPC) - Single Window Implementation – Under development**
  - **ISO 28005-2: Electronic Port Clearance (EPC) - Technology & Data Dictionary - PAS Published 2009;DIS Approved 2010-05-15**

ISO 28000

- **ISO 28000** - the only published and certifiable International Standard that takes a holistic, *risk-based approach to managing risks associated with any disruptive incident in the supply chain -before, during and after the event. It suggests how to improve resilience and preparedness performance in a cost effective way based on a plan-do-check-act*

- **Section 4.3.1** states, **"risk assessment** shall consider the likelihood of an event and all of its consequences which shall include: *physical failure threats and risks*; *operational threats and risks*; *natural environmental events*; *factors outside of the organization's control*; & *stakeholder threats and risks"*

- **Section 4.4.7** - **emergency preparedness, response and security recovery**

- *ISO Secretary General noted in Press Release on publication of ISO 28000:*
  - **Reducing Piracy, Fraud, and Terrorism**
  - *The standards address potential security issues at all stages of the supply process from point of manufacture, including sources of financing, to the final consumer thus targeting threats such as terrorism, fraud and piracy.*

Secretary General WCO comments on ISO & 28000

- **Secretary General, World Customs Organization stated "Clearly, the cooperation between WCO and ISO is set to continue and strengthen, as our work is complementary and supportive"**

- **"Good relations with ISO- Liaison with ISO/TC8-** This means that WCO has been able to ensure work developed is fully consistent with SAFE Framework of standards"

- "**Countries developing AEO programmes may now consider with confidence certification to ISO 28000 a stepping stone towards AEO certification**" "This is indeed a positive development & reflects the invaluable role played by ISO standards, especially in relation to supply chain security management"

European Commission

TAXUD/2006/1450 – *AUTHORISED ECONOMIC OPERATORS GUIDELINES*

"The legislation ensures automatic recognition of safety & security standards fo

Regulated Agents" "As laid down in Article 14k(3) of   CCIP, security & safety

criteria shall also be deemed to me met if the applicant, established in the

Community, …… is the holder of any of the following: …, an <u>International</u>

<u>Standard of the International Organisation for Standardisation, </u>"

" TAXUD/2006/1450 examined the application of ISO 17000 & 27000 series

of IT standards, ISO 9001 quality management ….,   & <u>ISO 28000 & 28001</u>

<u>in regard to security assessment, procedures, plans, and management</u>

<u>for the supply chains</u>"

Adoption of the 28000 series by users (Cont.)

- **DB Schenker, world's second-largest forwarder, is ISO 28000 certified**

- **Asian Terminals, first marine terminal in Philippines, certified ISO 28000**

- **CTS Logistics, P.R.China -Kitting assembly of turnkey management of consumer electronic, IT and telecommunication products, assembly of computer peripherals and loading of software, ISO 28000 certified**

- *YCH India:* **certified** TAPA 'A-class' & ISO **28000-compliant** YCH India started by providing freight & customs clearance services to Dell. YCH operates VMI (Vendor Managed Inventory) model, the first of its kind for electronic manufacturers and suppliers, industry. YCH India provides customized Supply Chain solutions for Electronics, Consumer Goods, Chemicals/Healthcare and Automotive industries in India. Its clientele includes DELL, ACER, TPV, General Mills, HCL and others.

Adoption of the 28000 series by users (Cont.)

- **Banner Plasticard, Philippines- design and printing of cards, personalization services, embossing, encoding, thermal printing, wrapping crating and palletizing to freight forwarder for export, is ISO 28000 certified**

- **<u>Airport, railroad, pharmaceutical, health care, and high tech industries certifying to ISO 28000</u>**

- **Professional training for security and non practitioners using ISO 28000 is being conducted for (1) supply chain business operators and (2) Customs Officers**

- **And many other global industries**