



Vessel Construction Regulations Project Overview & Status Update

Canadian Marine Advisory Council
Spring 2011

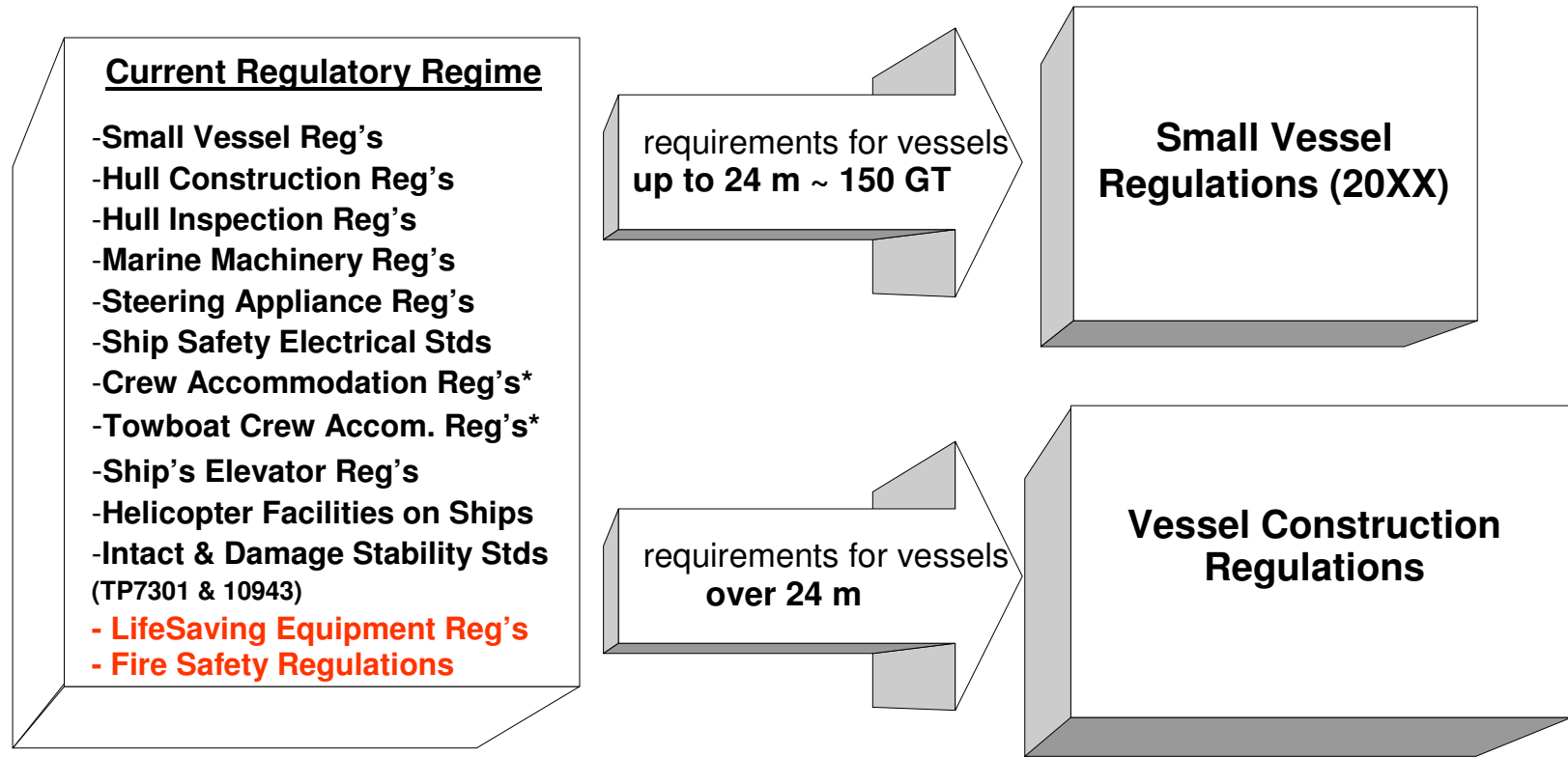


Objectives and Scope

- *Provide performance based requirements that are both safe and allow for innovation*
- *Harmonize with or incorporate international standards as amended to make fleet replacement easier and keep the regulations current*
- *Meet international obligations of Canada – SOLAS, MARPOL,...*
- *Consolidate requirements in fewer regulations*



Proposal for Packaging



*construction requirements only

- Combine existing regulations into just two
- Cut-off at 24 metres



Approach for establishing requirements

Small Vessel Regulations	Small Vessel Regulations	Vessel Construction Regulations	Vessel Construction Regulations
Up to 12* metres	12* to 24 metres	24 metres to 500 GT	> 24 metres
0 – 15 GT	15 – 150 GT	150 – 500 GT	> 500 GT
Lower Limit	Sliding Scale with risk basis		Upper Limit
Current regulation	Requirements to be determined in line with existing requirements based on risk		Harmonize with international requirements and class rules

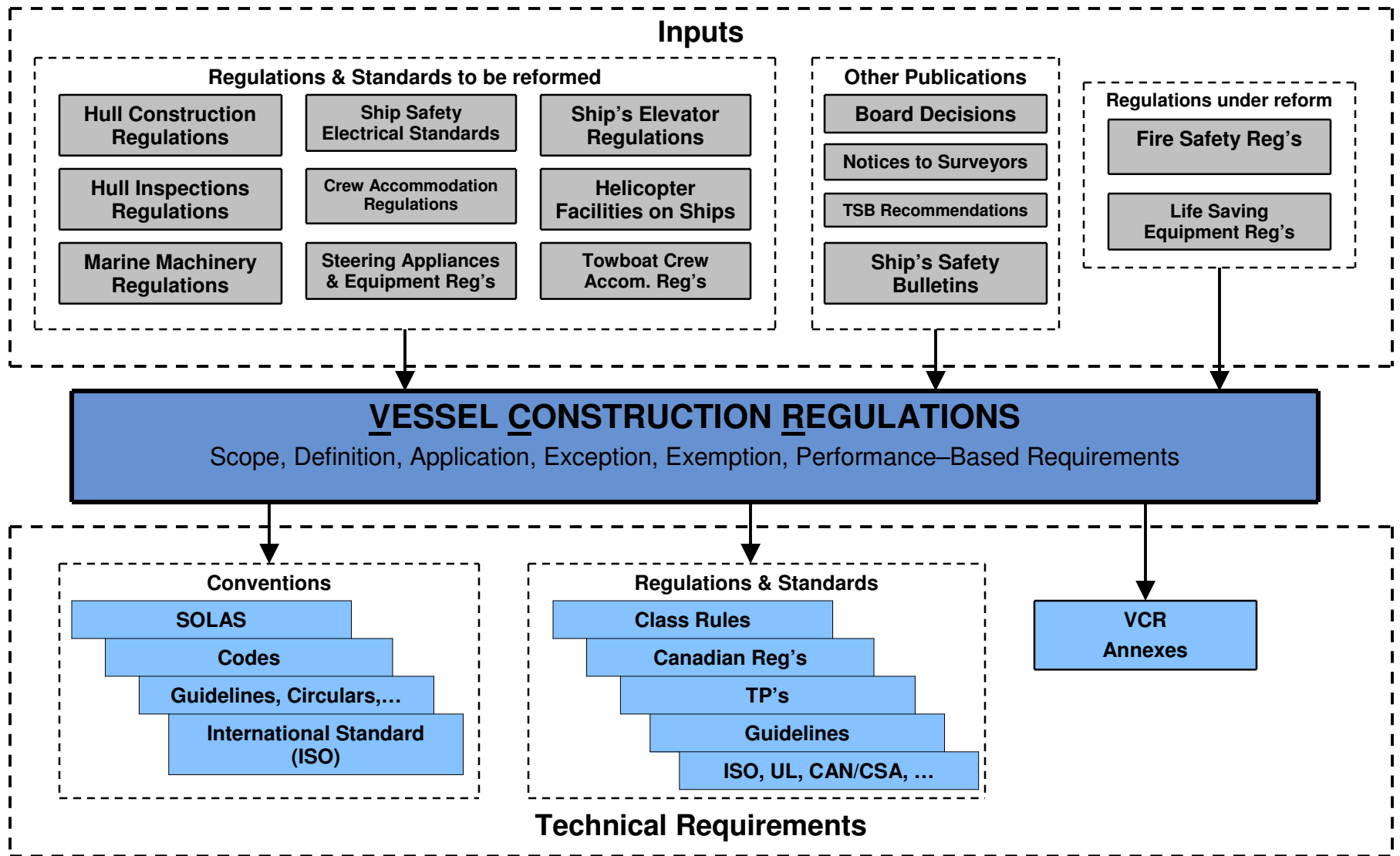
Number of vessels excluding barges, pleasure craft, and fishing vessels

2000 PV	570 PV	150 PV	115 PV
7000 NPV	835 NPV	200 NPV	275 NPV
Tot.= 9000** vessels	Tot.= 1405 vessels	Tot.= 350 vessels	Tot.= 400 vessels

*Current application is Gross Tonnage not exceeding 15 and might be replaced by 12m or more (need to be analysed)

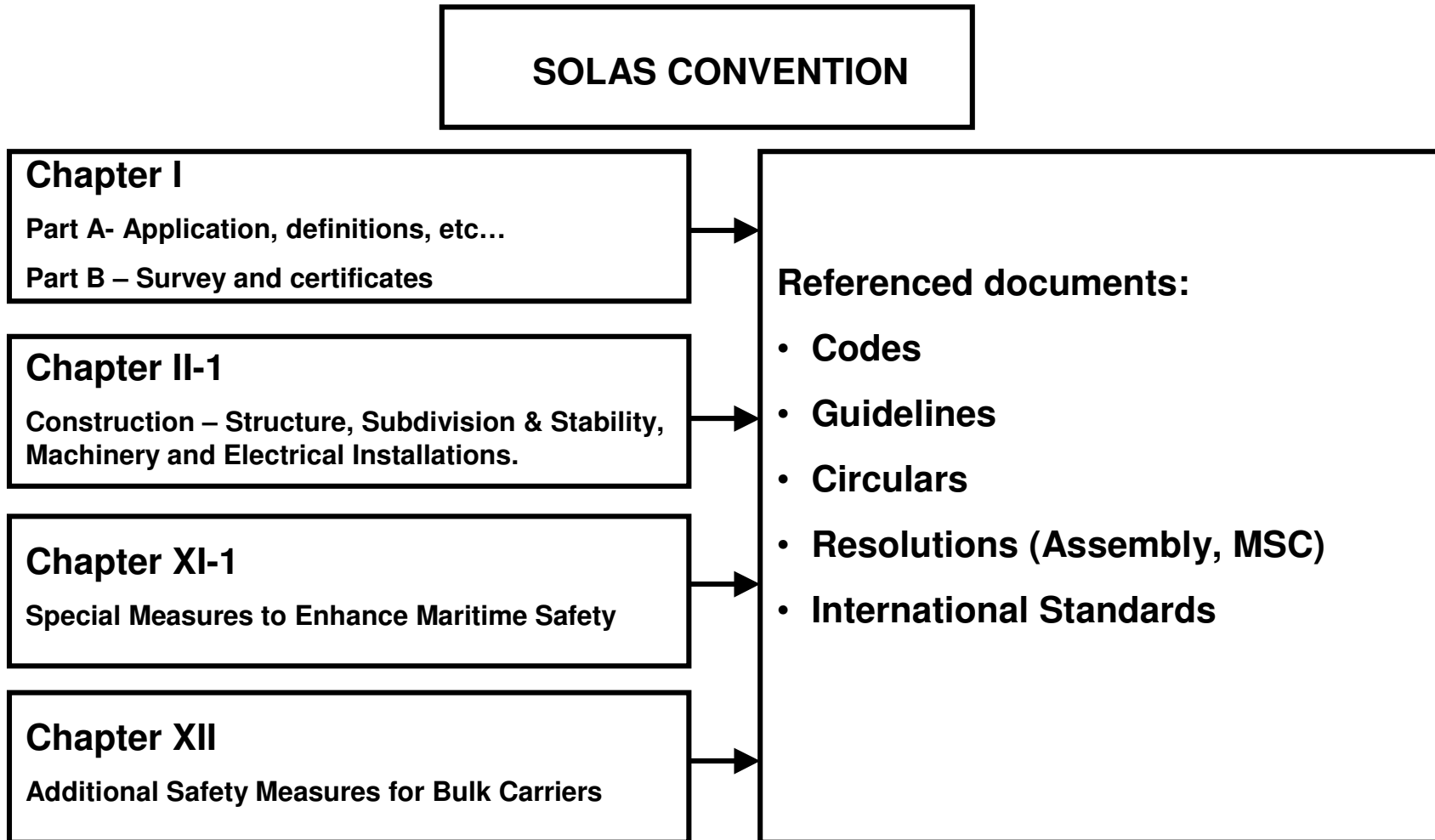
**Number of vessels in the Registry as of mid 2009, actual number is higher

Vessel Construction Regulations Framework (Draft)





Basis for establishing requirements (analysis)

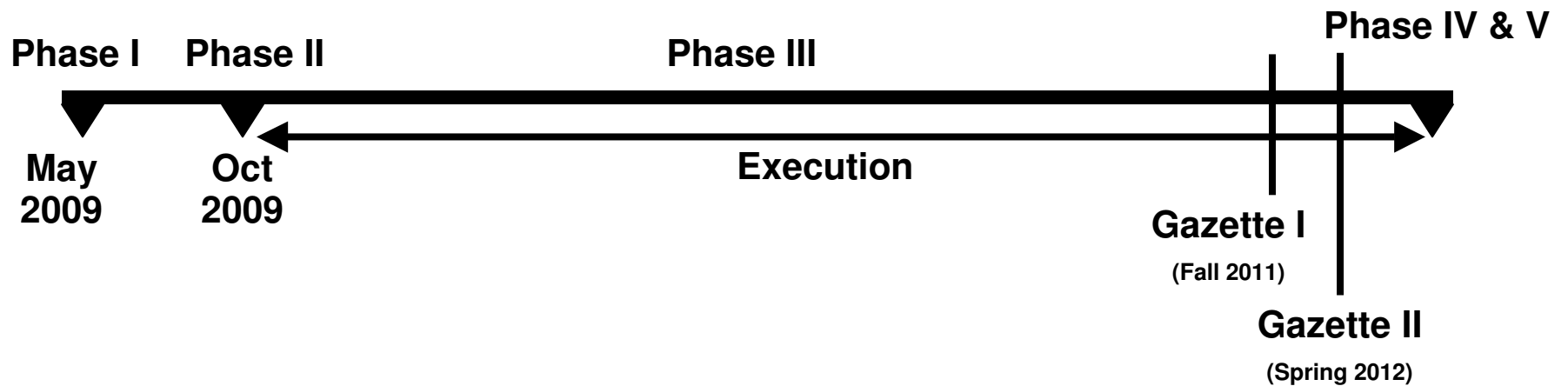




VCR Regulatory Project (summary)



- Phase I : Project Design
- Phase II : Project Planning
- Phase III : Execution
- Phase IV : Closure
- Phase V : Implementation





VCR Regulatory Project (summary)



- Phase I : Project Design
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- 1- Concordance table
- 2- Analysis WG (workshop)
- 3- Cost analysis
- 4- Policy Development
- 5- Development of drafting Instructions



Analysis underway - Current Status (Regulations)

Hull Construction Regulations (C.1431) vs SOLAS (Chapter II-1)

Part	Contents
I	Subdivisions, double-bottom, bulkheads, damaged stability, watertight doors, shell openings, load lines
II	Subdivisions and load lines
III	Fire protection for passenger ships
IV	Fire protection of existing passenger Ships
V	Fire protection of existing non Safety Convention passenger ships
VI	Fire protection of Safety Convention non-passenger ships
VII	Intact Stability, watertight doors, freeings ports, non-structural tanks, means of escape, storm rails, markings
VIII	Ships built or converted for towing
IX	Fire protection for tankers & Combination carriers
X	Fire Protection for cargo ships 500 GT and over

To be repealed by the new *Fire Safety Regulations*



Analysis underway - Current Status (Regulations)

Hull Inspection Regulations (C.1432)	SOLAS, Chapter II-1, Guidelines (HSSC), IACS
Crew Accommodation Regulations (C.1418)	MOHS (Canada Labour Code), ILO
Ship's Elevator Regulations (C.1482)	<ul style="list-style-type: none"> • To be include in the VCR • Compliance with CSA or Class Rules • SSB 03/2010
Towboat Crew Accommodation Regulations (C.1498)	Similar to Crew Accommodation Regulations
Marine Machinery Regulations (SOR/90-264)	<ul style="list-style-type: none"> • Concordance SOLAS vs MMR • Concordance MMR vs RO • Vessels operating in ice • Relaxations for certain vessels
Steering Appliances & Equipment Regulations (SOR/83-810)	Equivalency found in SOLAS; <ul style="list-style-type: none"> • Chapter II-1 (Reg. 29) • Chapter V (Reg. 24, 25 & 26) • Vessels operating in ice



Analysis underway - Current Status Standards (TP's)

Ship Safety Electrical Standards (TP127)	IEC, IEEE STD 45
Guidelines Respecting Helicopter Facilities on Ships (TP4414)	<ul style="list-style-type: none"> • TP4414 (new draft) • Harmonization with ISO, ICAO • IMO (SOLAS, MODU) • International Standards (CAP 437)
Stability, Subdivision and Load Line Standards (TP7301)	<ul style="list-style-type: none"> • Introduced in 1975 (Resolution A.749(18)) • IS Code 2008 (since July 1, 2010) MSC.267(85) • Should succeed our TP • Should apply to smaller Domestic vessels
Passenger Vessel Operations and Damaged Stability Standards (Non Safety Convention) (TP10943)	<ul style="list-style-type: none"> • No significant changes expected • Alternative to comply with the latest provisions of SOLAS is maintained • Reformat and incorporate in the VCR
Passenger Vessel Operations and Damaged Stability Standards (Safety Convention) (TP10405)	<ul style="list-style-type: none"> • Remove this TP to apply SOLAS exclusively • Convention provisions as per date of construction • Minimum SOLAS 90 and 95-98 amendments



Comments / Questions

Send them to

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Thank you