



# **Certification acc. to ASME**

TÜV SÜD Industrie Service GmbH

Slide 1

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#### 1 Involved Parties





**Involved Parties** 

2 Steps for ASME Certification

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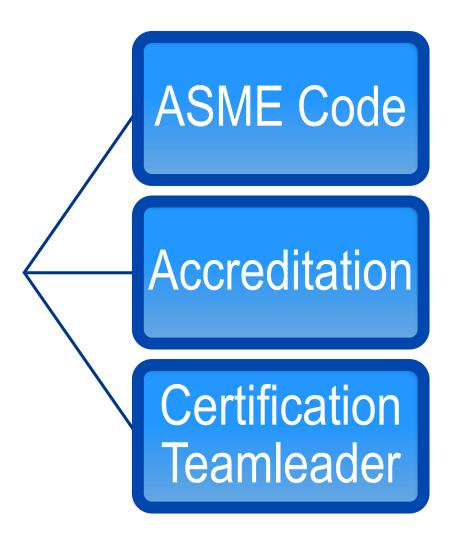


The American Society of Mechanical **E**ngineers

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## 1 Involved Parties



		i			
Section I	Rules for Construction of Power Boilers		Part A - Ferrous Material	Part B - Nonferrous	
Section II	Materials	<b>→</b>	Specifications  Part C - Specifications for	Material Specifications	
Section III	Nuclear Power Plant Components		Welding Rods, Electrodes & Filler Materials	Part D - Properties	
Section IV	Rules for Construction of Heating Boilers		Subsection NCA - General Requirements for Division 1 & 2		
Section V	Nondestructive Examination				
Section VI	Rules for Care & Operation of Heating Boilers		Division 1 - Subsection NB - NH		
Section VII	Guidelines for the Care of Power Boilers	<b> </b>	Division 2 - Code for Concrete Containments		
Section VIII	Rules for Construction of Pressure Vessels		Division 3 - Containments for Transportation & Storage of Spent Fuel & High Level Radioactive Material & Waste		
Section IX	Welding & Brazing Qualifications		Division 1 - Pressure Vessels		
Section X	Fiber-Reinforced Plastic Pressure Vessels	<b> </b>	Division 2 - Alternative Rules		
Section XI	Rules for Inservice Inspection of Nuclear Power Plant Components		Division 3 - Alternative Rules for Construction of High Pressure Vessels		
Section XII	Rules for Construction & Continued Service of Transport Tanks		17		
Code Cases			Boilers & Pressure Vesse	s Nuclear Components	
Addenda Interpretatio	ns				

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Slide 5

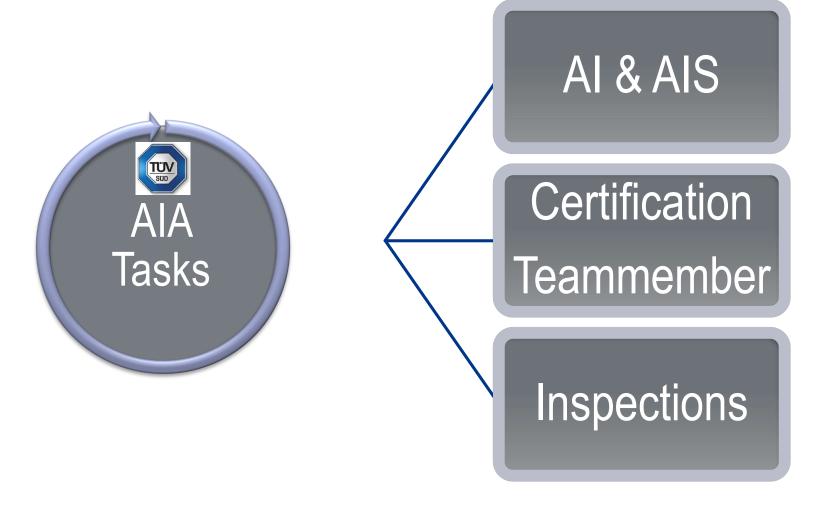




Authorized Inspection Agency

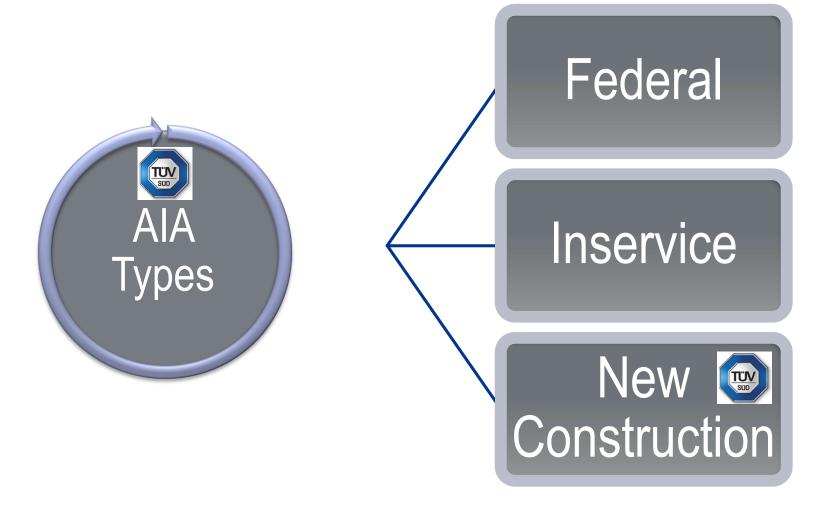
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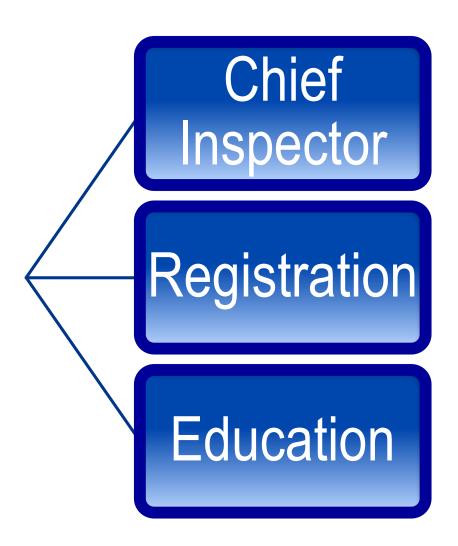




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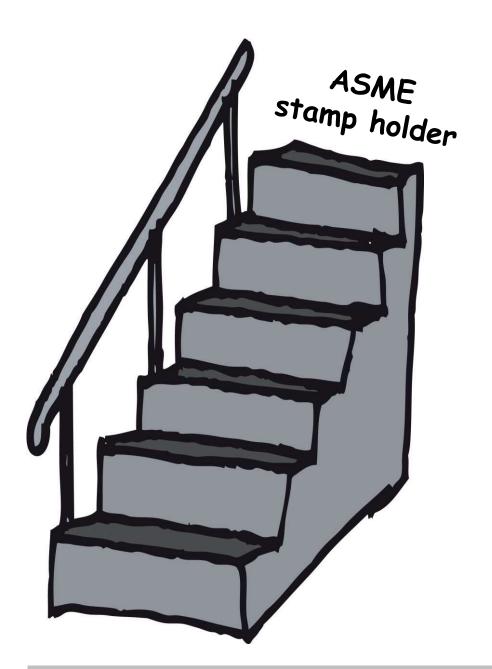




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#### 2 Steps for ASME certification





1 Involved Parties

2 Steps for ASME Certification

3 PQR / WPQ / WPS

4 Material

5 Subcontracting (incl. NDT)

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## 2 Steps for ASME certification



Contract with AIA

Application for ASME Certification

Fees

Purchase of ASME Code Books

Preparation for the Joint Review

Joint Review

Issue of Certificate

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Contract with AIA

AIA Manufacturer Contract

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Slide 13



2

Application for ASME Certification

## Manufacturer



**ASME** 

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Fees Fees Advance Payment Certification Fee Hard Stamp 340 US\$ \* 11.000 US\$ \* 3.390 US\$ \*

\* July 2017

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4

## Purchase of ASME Code Books

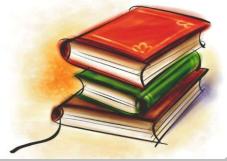


Sec. VIII, Div. 1

Sec. II, Part A,B,C,D

Sec. V

Sec. IX



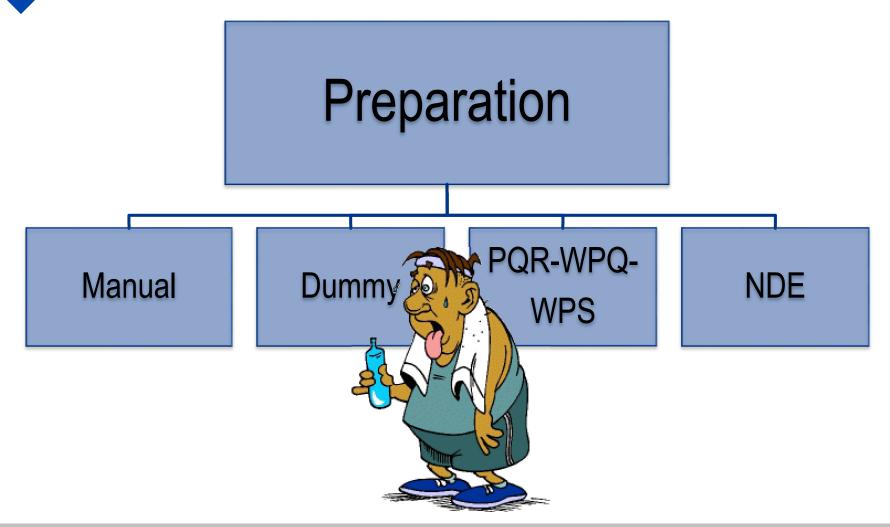
(approx. 5000 US\$)

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5

Preparation for the Joint Review



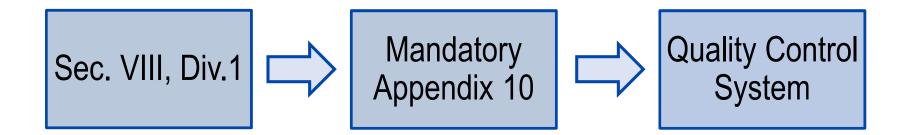
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E

Preparation for the Joint Review

## Manual



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## Preparation for the Joint Review

## Manual

- 1) Authority and Responsibility
- 2) Organization
- 3) Drawings, Design Calculations and Specification Control
- 4) Material Control
- 5) Examination and Inspection Program
- 6) Correction of Nonconformities
- 7) Welding

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#### 2 Steps for ASME certification



5

## Preparation for the Joint Review

## Manual

- 8) Nondestructive Examination
- 9) Heat Treatment
- 10) Calibration of Measurement and Test Equipment
- 11) Records Retention
- 12) Sample Forms
- 13) Inspection of Vessels and Vessel Parts

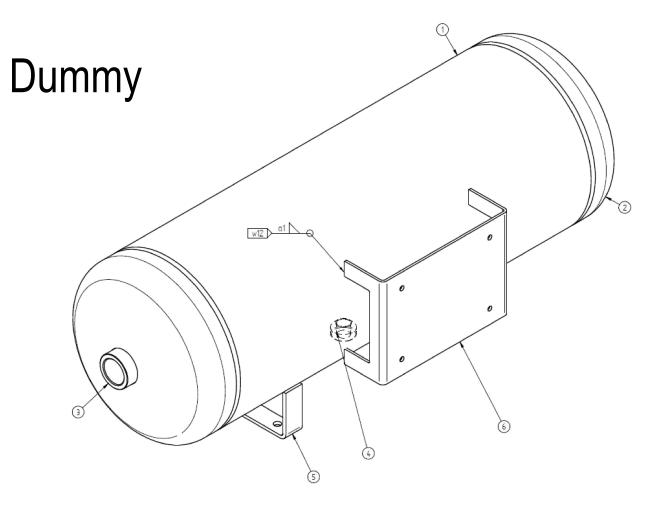
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## Preparation for the Joint Review

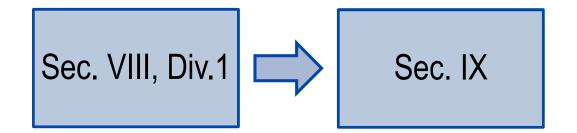


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Preparation for the Joint Review

PQR – WPQ - WPS

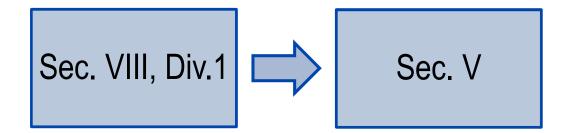


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Preparation for the Joint Review

## NDE



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#### 2 Steps for ASME certification



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## Preparation for the Joint Review

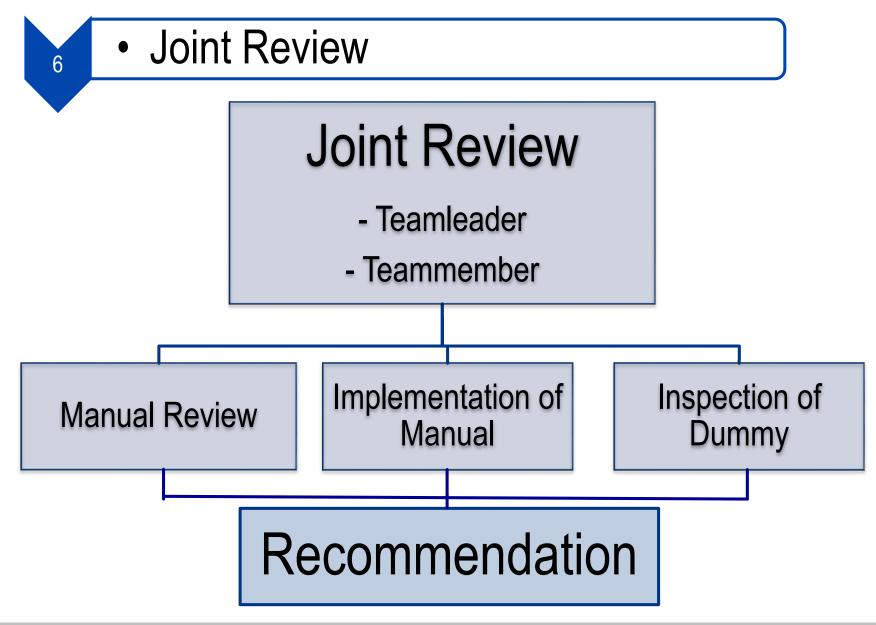
## NDE

#### www.asnt.org

➤ Roland , Daniel	ID# 206934		(Munich Bavaria, GERMANY)		
Program Type	Method	Sector	Technique	Expiration Date	
ASNT NDT Level III	Magnetic Particle Testing			5/17	
ASNT NDT Level III	Liquid Penetrant Testing			11/17	
ASNT NDT Level III	Radiographic Testing			1/18	

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**Issue of Certificate** 

## Certificate

Recommendation

Positive Decision for Certification

Certificate

Hard Stamp

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## Thanks for your **Attention!**



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