NDT IN OIL AND GAS INDUSTRIES

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International Atomic Energy Agency Scientific Forum



15-16 September 2015, Vienna, Austria

- Malaysia prior to 1980: economy depends on prime commodity GDP 1970 USD 3.4billion
- Percapita income
 - 1970 RM1159,
 - 1980 RM5412.36
 - 2006 RM17243
 - 2013 RM28000
 - Targeted at RM45000 by 2020













- Malaysia around1980: economic turning point from commodity dependent to industry
- 1980 also marked the era of oil and gas industry
- 1980 GDP USD1802.63
- PETRONAS INCOME 2007:RM41.7 billions (35.4% of Total Malaysian Income)







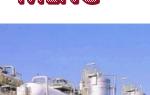




Platform Fabrication









GPP Kerteh



Platform in Operation



Malaysia Oil and Gas Field



Refinery in Port Dickson



Project type Pipeline Products 100.000 tors X70 PSL 2 het rolled calls Specials & Services Long som agreement which ensured the customer of thredy delivering during the whole proje - Degat: thansperson - Stramen & Branch Strameters

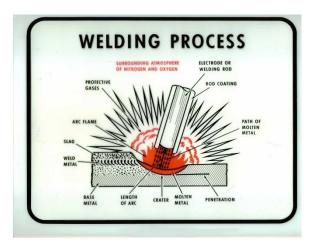
Pipeline Construction

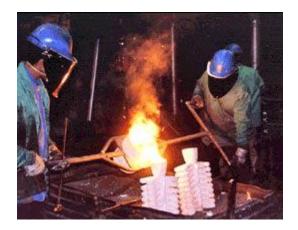


Piping in Plants



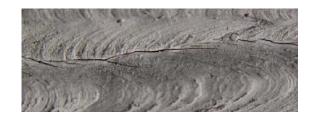
Refinery in Melaka







PROCESSES LEAD TO THE FORMATION OF DEFECTS THAT MAY CAUSE FATAL ACCIDENTS



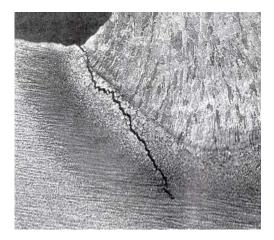


BHOPAL TRAGEDY



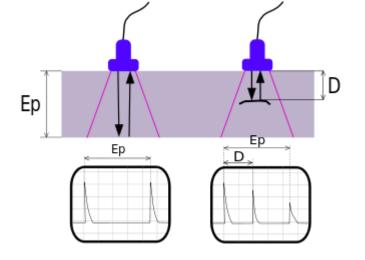
TRANSCANADA PIPELINE

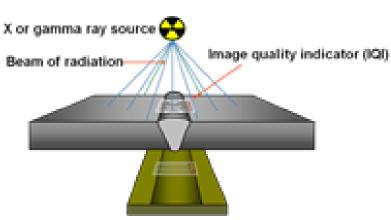






OKLAHOMA EXPLOSION

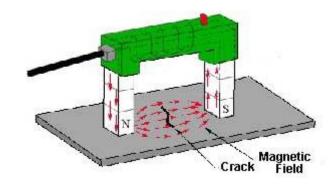




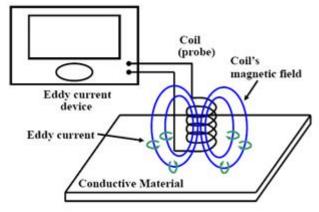
Radiographic film

wiki











IAEA Contributions

- Development of core personnel through scientific visit and trainings
- Establishment of Qualification and Certification Scheme
- Donation of NDT equipment
- Dispatch of expert
- Establishment of NDT Societies











NDT MANPOWER DEVELOPMENT INFRASTRUCTURE















Creation of a National Certification Body

Creation of more than 5000 employment opportunity

Creation of 60 NDT companies



Overall Impact





Creation of total NDT services business of about USD350,000,000



Saving currency flow of about USD 1 billion/year

Thank you!