

Basics of Engineering Insurance

Date: 12 August 2021 Speaker: Nomxolisi Solo



Agenda



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Corporate Insurance Partner

Facultative Reinsurance Units



- This gives us even more power to serve our cedants, corporate clients and brokers to sustainably expand and accelerate the insurance industry
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Fundamentals of engineering insurance



- 19th century Industrial Revolution in England origin of engineering insurance
- 1854 foundation of Manchester Steam Users Association
- 1859 foundation of the Steam Boiler Assurance Company
- 1866 Hartford Steam Boiler Inspection & Insurance Company was founded
- 1900 introduction of the Machinery Insurance by Allianz AG, invented by Munich Re
- 1924 launch of the EAR insurance cover Atlantic and Allianz insurance with Munich Re support
- 1929 first record of Contractors' All Risk insurance for Lambeth Bridge across the Thames in London



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Fundamentals of engineering insurance



- Wide range of risks in terms of values / period / technology
- Indemnity for sudden and unforeseen physical loss
- All risk / Named perils policies
- Construction / Erection (Project) Operation
- Multitude of different hazards
- UW requires technological know-how

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Exposures and main perils



Engineering typical exposures

- Design incomplete
- High development frequency
- Early launching of products
- Construction / erection details novel
- Construction / erection method new or inappropriate
- Materials untried or behaviour unknown
- Lack of skill
- Lack of control
- Vulnerability to natural hazards

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Main classes of engineering insurance

Cover for construction or erection (Project)



CAR – Contractors all Risk

- Infrastructure projects (tunnels, roads, bridges)
- Building complexes
- Hydropower projects
- Wet structures (dams, land reclamation)



EAR – Erection All Risk

- Industrial complexes
- Refineries
- Power plants
- Steel mills
- Cement factories



CEAR – Construction & Erection All Risk

Combines EAR and CAR policy into one policy



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CPI – Comprehensive Project Insurance

- Combines EAR and CAR policy into one policy
- Extended by Marine Cargo (DSU)

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Main classes of engineering insurance

Cover for operation



M (MB) – Machinery
Breakdown

Operation of machines, plants, installations,



EE – Electronic Equipment

Operation of computers, mainframes, control centres, telephone switching stations, medical equipment



CMI – Comprehensive Machinery Insurance

Operation of machines, plants, installation, ...

Full protection against internal and external hazards



CECR – Civil Engineering Completed Risks

Operation of highways, tunnel, bridges, railways, ...

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Main classes of engineering insurance

Cover for loss of Profits



MLoP – Loss of Profit Insurance (Business Interruption)

Loss of gross profit due to physical damage indemnifiable under operational power



ALoP/DSU – Advanced Loss of Profit/Delay in Start-up

Loss of gross profit due to a delay in completion as a result of physical damage indemnifiable under operational power

Special covers



 IDI – Inherent Defects (Decennial-, quinquennial liability)

3 Individual loss examples



Individual loss examples Man-made losses





Grenfell Tower Fire, North Kensington, West London-2017

- Grenfell is a 24 storey block of flats
- After a fridge freezer malfunctioned on the 4th floor, leaving 72 people dead and more than 70 people injured.
- The fire lasted for 60 hrs

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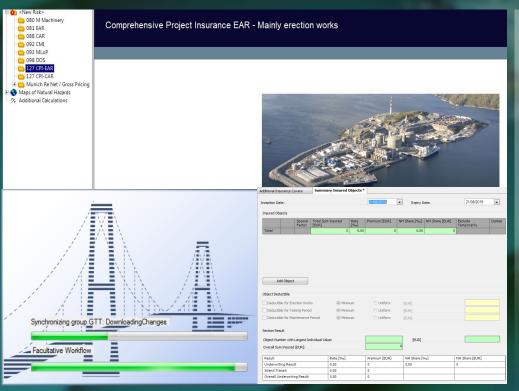
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Products & Services - Munich Re Engineering Expert Tool



Munich Re Engineering Expert Tool (MR-ET)

- Rating of all major engineering classes
- Recommendations and plausibility checks for important risk parameters
- Geo coding and NH exposure
- Reporting function
- Updated regularly

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Products & services - IMIA



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Strong presence of Munich Re at the

"The International Association of Engineering Insurers" (IMIA)

https://www.imia.com/

Chairman: Stephan Lammle (Munich Re)

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Products & services





How Munich Re can assist

- Rating programme which is constantly updated
- Technical information, product related exposures
- Risk assessment and underwriting assistance
- Risk management and claims inspections by own engineering staff
- Standardized policy wordings & endorsements and tailor made products
- Training courses in Munich and Branch offices in various languages

5 Conclusion & future challenges







Conclusion & future challenges

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Conclusion



- Large investments are ahead of us, predominantly in the energy and infrastructure sector
- Engineering is highly specialised class of business which requires specialists and multiple disciplines
- Nature of claims and type of covers result in complex claims settlement
- Long term commitments require special consideration in capacity
- Risk management matters and supports projects to be complete successfully – helps to avoid and minimise losses and enables efficient claims settlement
- Constant re-modelling of pricing parameters required
- Keeping up to date with technology is essential



Thank you!

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