



The Presenter: Motlatsi Mabaso

- Motlatsi is a Director and Technical Signatory at MMRisk (Pty) Ltd, an Approved Inspection Authority for MHIs
- He holds BSc in Chemical Engineering (from UCT)
- MHI Technical Committee member for the drafting of new MHI Regulations (Dept of Employment and Labour) (2019 – Present)
- He is a Chartered Chemical Engineer (CEng) and Member of IChemE (UK)
- Vice President of the S.A. Institution of Chemical Engineers (SAIChE) (2019 – 2022)
- Visiting Engineer UCT Department of Chemical Engineering (2017)





About MMRisk (Pty) Ltd



We are an **Approved**Inspection Authority for Major
Hazard Installation Risk
Assessments, number: CI
MHI 0013.

Our services

Major Hazard Installation
(MHI) Risk Assessment

HAZOP

Emergency
Response Planning

Technical Risk Training

Facilitation







Presentation Outline

What are the Major Hazard Installation (MHI) Regulations?

- What are the NEW MHI Regulations (2022)?
- Classification of establishments: Low, Medium, High
- Declassification



What is a Major Hazard Installation?





Plenty of recent local examples ... unfortunately



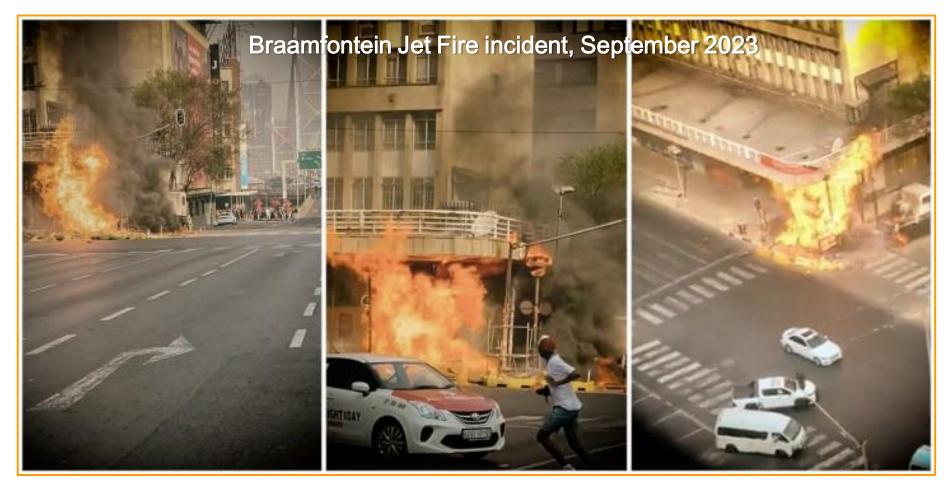


Plenty of recent local examples ... unfortunately





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"Major Hazard Installation"

Major Hazard =

The <u>potential</u> to cause a major industrial accident which affects personnel and the public



Installation =

A System or Unit on-site which processes or stores Hazardous Substances (or Dangerous Goods)







The Occupational Health and Safety Act (85 of 1993)



REPUBLIC OF SOUTH AFRICA

GOVERNMENT GAZETTE

STAATSKOERANT

VAN DIE REPUBLIEK VAN SUID-AFRIKA

Registered at the Post Office as a Newspaper

As 'n Nuusblad by die Poskantoor Geregistreer

Regulations

(1) The Minister may make regulations—

as to the preventive and protective measures for major hazard installations with a view to the protection of employees and the public against the risk of major incidents;

CAPE TOWN, 2 JULY 1993 No. 14918 KAAPSTAD, 2 JULIE 1993

STATE PRESIDENT'S OFFICE KANTOOR VAN DIE STAATSPRESIDENT

It is hereby notified that the State President has assented

Hierby word bekend gemaak dat die Staatspresident sy goedkeuring geheg het aan die onderstaande Wet wat hierby

No. 85 van 1993: Wet op Beroepsgesondheid en Veiligheid,



The MHI Regulations, 2022

STAATSKOERANT, 31 JANUARIE 2023

No. 47970 3

GOVERNMENT NOTICES • GOEWERMENTSKENNISGEWINGS

DEPARTMENT OF EMPLOYMENT AND LABOUR

NO. R. 2989

31 January 2023

OCCUPATIONAL HEALTH AND SAFETY ACT (ACT No. 85 OF 1993), as

amended

PROMULGATION OF MAJOR HAZARD INSTALLATION REGULATIONS, 2022

I, Thembelani Waltermade Nxesi, Minister of Employment and Labour, hereto, after consultation with the Advisory Council of Occupational Health and Safety, promulgates the new regulation relating to Major Hazard Installations; in terms of section 43(1)(c) of the Occupational Health and Safety Act, 1993 (Act no. 85 of 1993).

MR TW-NXESI, MP

MINISTER OF EMPLOYMENT AND LABOUR

DATE: 13/11/2022

Downloadable from: www.labour.gov.za



MHI Regulations, 2022: overview

- 1. Definitions
- 2. Scope of application
- 3. Management of establishment
- 4. Notification of establishment
- 5, 6, 7, 8: Registration of establishment, including suspension
- 9. Sharing of information

- 10. Risk Assessment
- 11. Major Incident Prevention Policy (MIPP)
- 12. Safety Report
- 13. Licence to Operate
- 14. General duties of local government
- 15. Emergency Plan
- 16. Reporting of incidents

- 17. Information and training
- 18. General duties of suppliers
- 19. Payable fees
- 20. The MHI Advisory Council
- 21. Approved Inspection Authorities
- 22. Duties of Approved Inspection Authority



MHI Regulations, 2022: overview

23. Closure

24. Offences and penalties

25. Repeal of regulations

26. Short title and commencement

Annexure A:

Dangerous Substances to which these regulations apply

Annexure A, Chapter 1:
Named dangerous
substances

Annexure A, Chapter 2: Unnamed dangerous substances (categories)

Annexure A, Chapter 3:
Pipelines as major hazard
establishments

Annexure A:
Aggregation Rule

Annexure B: Payable fees

Annexure C:

Major Incident Prevention Policy

Annexure D: Safety Reports

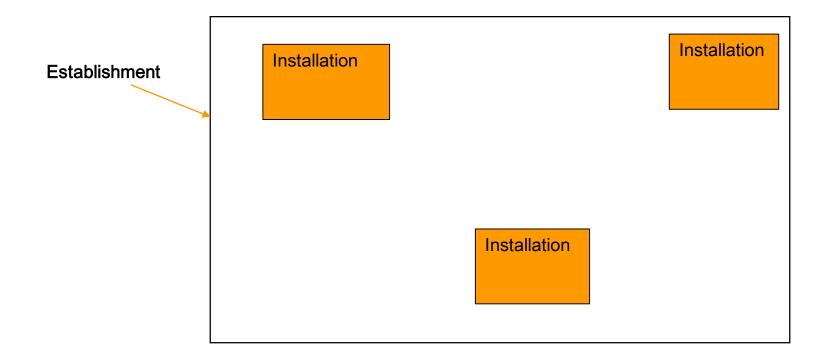
Annexure E:
AIA Monthly Reports

Form A:
Notification of an establishment

Form B:
Registration as an
Approved Inspection
Authority



Installation vs Establishment





MHI Regs 2022: Facility Classification & Named Substances

E.G. Named Substances

Threshold Quantities in TONS (maximum capacity)

Petroleum Products (gasolines,
naphtha's, kerosene's, gas oils (including
diesel fuels, heating oils, gas oil blends)

$$20 - 50$$

$$50 - 200$$

Ammonia

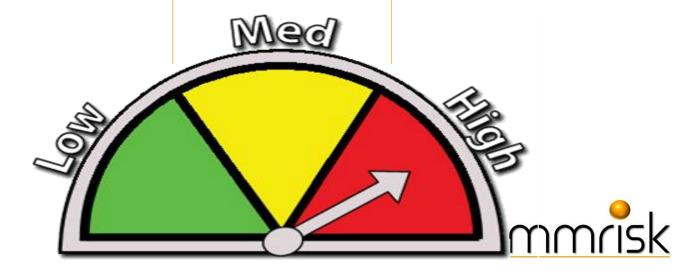
$$50 - 200$$

E.G. Unnamed Substances

20 - 50

e.g. Pyrophoric liquids / solids

FACILITY HAZARD RATING:



MHI Regulations, 2022: requirements per hazard

level

MHI,

EP,

Major Incident Prevention Policy (MIPP),

Process Safety Management
System (PSM)

MHI Risk Assessment (MHI),

Emergency Plan (EP)



MHI,

EPP,

MIPP,

PSM,

Safety Report (SR)

"Licence to Operate"





"My site was an MHI before, but my installations now fall below the new threshold quantities... what do I do?"



Installations below threshold quantities



Dipotso?

Any questions?

