



* The Role of the H&S Agent in the first 3 project stages

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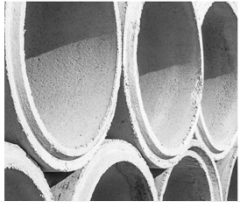
Agency to probe boys' fatal pipe accident

2014-10-22 08:53

Johannesburg - The Johannesburg Road Agency (JRA) will investigate the cause of the accident in which two boys were killed when concrete pipes rolled over them in Braamfischerville, Soweto on Tuesday, the agency said.


"The JRA will investigate the cause of the accident and ensure that all necessary parties are consulted and involved, including the SAPS and the department of labour, to conclude all necessary processes," said managing director Skhumbuzo Macozoma.

The boys, aged between 7 and 10, were killed when concrete pipes rolled over them at a construction site in Braamfischerville.



News24

* Introduction




WORKPLACE FATALITIES

Death and injury stalk construction sites


Building sector fatalities and accident rates higher than in the volatile mining industry

This makes it difficult to get any accurate view on the severity of the problem


Labour was still investigating this week's collapse of a building under construction in Johannesburg. The collapse of the building, which was under construction, was the second such incident in the city in the past few weeks. The first was the collapse of a building under construction in the same area last month.

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Meyersdal collapse: 7 fatalities, 8 injured



(Picture: ER24)

News24, 2014


Tongaat Mall collapse: 2 fatalities




(Rajesh Jantlat, AFP)

News24, 2012


* Recent major construction incidents in SA





- *Definition
 - * **Agreeing client requirements and preferences**
 - * Assessing user needs and options
 - * Appointment of necessary consultants in establishing in consultation with the client:
 - * project brief
 - * objections
 - * priorities, constraints
 - * assumptions and strategies

*** STAGE 1 - PROJECT INITIATION AND BRIEFING: standard services**






- * **Demonstrate** the Construction Health and Safety Agent (CHSA) competency and resources
- * Assist with clear project H&S brief
- * **Attend** project initiation meetings
- * **Conclude** terms of agreement
- * **Advise on surveys, analyses, tests, investigations required for following stages**
- * **Advise on H&S competencies and resources**
- * **Identify** H&S risk profile
- * Provide **information and communication** within the agreed scope of works between consultants
- * Define CHSA scope of work and services


*** STAGE 1 - PROJECT INITIATION AND BRIEFING: standard services**





- *The **evidence** of the standard services
- *What records identify that which standard services were involved?
 - * Do you have the records, signed documents, records of the communication between consultants?
 - * Risk assessments?
 - * Schedule of surveys, appropriate testing and recommendations
 - * Geotechnical, Drilling, traffic surveys

*** STAGE 1 - PROJECT INITIATION AND BRIEFING: Standard Services Deliverables**










Deacon, 2014



*** Planning**






*What is included in the tender document?
 * "B1230 SAFETY (extract)
 * The Contractor must comply with the Occupational Health and Safety Act (Act No 85 of 1993) as amended as well as all the publications pertaining to the act or as specified in the Contract Document:
 * A staff member will be appointed as the H&S representative and will need to complete a site inspection register on a daily basis
 * Payment for the Construction H&S Officer will be made under Item B13.06. Payment for the Traffic Safety officer will be under Item B15.14. The Traffic Safety Officer will report to the Construction H&S Officer
 * The Contractor shall nominate a Construction H&S Officer who will be responsible at all times, including after hours, nights, weekends and public holidays, for the safety of the work area and the Contractor's adherence to the H&S Specification and Plan"

*** STAGE 1 - PROJECT INITIATION AND BRIEFING:
 Standard Services Deliverables (2)**



***Definition: Finalisation of the project of the project concept and feasibility**
***Standard Services:**
 * Agree the documentation programme among consultants
 * *Attend* design and consultants meetings
 * *Review and evaluate* design concepts and advise re H&S, risk profile and prepare H&S policy
 * *Advise on preliminary cost estimates*/budgets
 * Prepare *draft* baseline risk assessment
 * *Assist the client and principal consultant* in the procurement of appropriate specialists, including definition of their roles, responsibilities and liabilities
 * *Advise the client* on the adequacy of the H&S competency and resources of the appropriate specialists

*** STAGE 2 - CONCEPT AND FEASIBILITY:
 Standard services**

* *Assess and approve specialists H&S plans*
 * *Monitor the implementation H&S plans, including periodic audits*
 * *Prepare the draft* construction project H&S specification
 * Agree the format and procedures for OHS construction project control
 * Advise and agree with the other consultants regarding their construction project H&S requirements and related design risk management responsibilities
 * Liaise, co-operate and provide necessary information between parties


*** STAGE 2 - CONCEPT AND FEASIBILITY:
 Standard Services**

*What documentation indicates provision of services?
 * H&S risk profile completed?
 * Drafts: baseline risk assessment, specification
 * Records,
 * Schedules
 * Preliminary costs/estimates
 * *Approved specialists H&S plans*
 * *Specialist H&S Audit records/reports*

The Designers are treated as a Principle Contractor....

*** STAGE 2 - CONCEPT AND FEASIBILITY:
 Deliverables**






***Definition:** Manage, coordinate and integrate the detail design development process within project scope, time, cost and quality parameters

***Standard services:**

- *Review the documentation programme with principal and other consultants
- *Attend design/consultants meetings
- *Finalise construction project H&S risk profile
- *Advise designers of their H&S legal liabilities and responsibilities for constructability, maintainability and operationability of the structure
- *Manage, co-ordinate, integrate and record the design risk management process in a sequence to suit documentation programme

*** Stage 3: DESIGN DEVELOPMENT: Standard Services**


***Occupational disease (OD) burden a major issue worldwide (HSE, 2014)**

- *Life altering and cause premature death
- *2011/12 estimated 1.1million workers with OD
- *450 000 new ODs reported annually
- *Estimated 12000 annual deaths from past exposures

*Health issues have always been and still an issue, as cause and effect not clearly linked

*Latency of up to 30 years causing major issues of linking exposure to disease

*** What do you know?**




***Manage, co-ordinate, integrate and record** the design risk management process in a sequence to suit documentation programme


***Monitor the integration** of H&S aspects for constructability, maintainability and operationability of the structure during the design process and finalise the construction project baseline risk assessment


*** Stage 3: DESIGN DEVELOPMENT: Standard Services (2)**




- *Identify and implement precautions project H&S control and project specific tender H&S specifications
- *Agree on a format for the H&S file
- *Assess and approve necessary construction project H&S plans for early works
- *Monitor the implementation of necessary construction H&S plans, including periodic audits for early works
- *Assist the cost consultant with detailed information for initial construction project H&S cost estimates/budgets
- *Liaise, co-operate and provide necessary construction project H&S information to the client, principal and other consultants



*** Stage 3: DESIGN DEVELOPMENT: Standard Services**







- * Record of construction project H&S risk communication
- * Final construction project H&S baseline risk assessment
- * Schedule of precautions necessary for construction project health, safety and hygiene control
- * Approved early works H&S plans
- * Early works audit reports and records
- * Initial schedule of construction project H&S cost estimates/budgets
- * Template for H&S file

*** Stage 3: DESIGN DEVELOPMENT: Deliverables**



- * The **evidence** of the standard services
- * What records identify that which standard services were involved?
- * No record, cannot prove all was done

*** Stage 3: DESIGN DEVELOPMENT: Deliverables (2)**

Project Stage	Description	Pr.CHS Agent	CHS Manager	CHS Officer
Stage 1	Initiation and Briefing	✓		
Stage 2	Concept and Feasibility	✓		
Stage 3	Design Development	✓		
Stage 4	Tender Documentation and Procurement	✓	✓	✓
Stage 5	Construction Documentation and Management	✓	✓	✓
Stage 6	Project Close Out	✓	✓	✓


*** IDOW Summary for all categories**

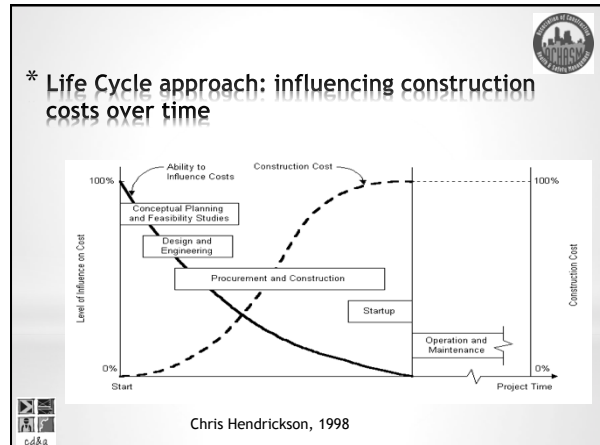
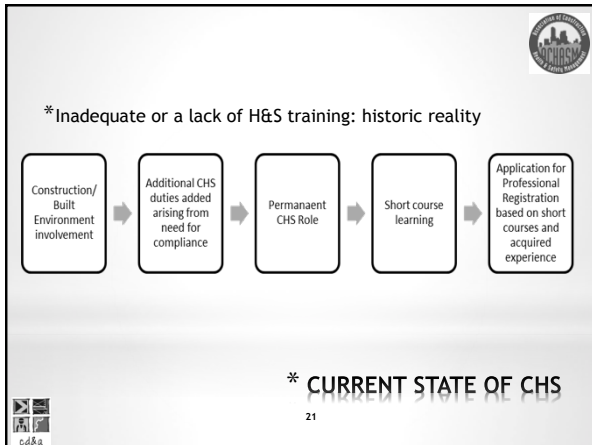



- * Procurement Management
- * Cost Management
- * Hazard Identification Management
- * Risk Management
- * Accident or Incident Investigation Management
- * Legislative framework
- * Health, Hygiene and Environmental Management
- * Communication Management
- * Emergency Preparedness Management

*** CHS KNOWLEDGE AREAS**

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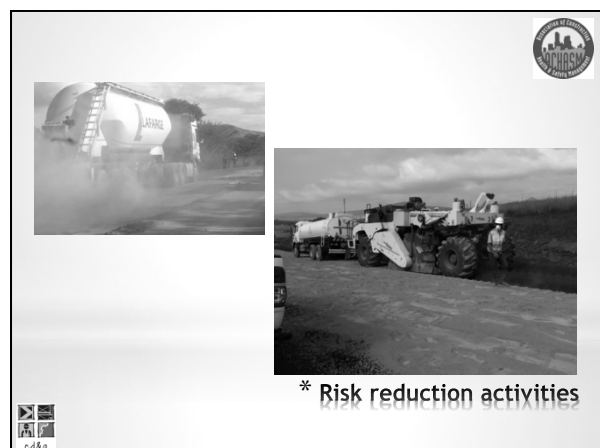




	Safety Knowledge Implemented	Safety Knowledge Not Implemented
Not Standard Practice	Not Liable	Liable
Standard Practice	Not Liable	Liable

Gambatese, 1998: Journal of Architectural Engineering

*** Liability and accountability**



***Level of risk and substitution**

***References**

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