

ADDENDUM A: IMPACT ASSESSMENT RATING WITH MITIGATION / OPTIMISATION MEASURES

Duynefontein	Construction Phase <u>with</u> Mitigation Measures										
Impact	Cumulative	Nature	Extent	Duration	Intensity	Consequence	Probability	Significance	Reversibility	Irreplaceable resources	Confidence
• Accommodation of staff and construction workers.	Low	Neg	Local	Med - Term	Med	Medium	Possible	Medium	Medium	No	Medium
• Influx of job seekers.	Low	Neg	Local	Med - Term	Low	Low	Probable	Low	Low	No	High
• Increase in number of informal illegal dwellings.	Low	Neg	Local	Short term	Low	Low	Possible	Low	Low	No	Medium
• Creation of employment opportunities.	Medium	Pos	Local	Med-term	High	High	Definite	High	Medium	No	High
• Business opportunities.	Medium	Pos	Local	Med-term	Med	Medium	Definite	Medium	Medium	No	High
• Impact on criminal activities.	Medium	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	Medium
• Risk of SDTs, HIV and AIDS.	Medium	Neg	Local	Med-term	Med	Medium	Probable	Medium	High	No	Medium
• Municipal services.											
Water and sanitation.	Medium	Neg	Local	Med-term	Med	Medium	Possible	Low	Low	No	Medium
Roads and transport.	Low	Neg	Local	Med-term	Med	Medium	Possible	Low	Low	No	Medium
Waste and refuse.	Low	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	Medium
• Traffic impacts.	Med	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	Medium
• Noise and dust impacts.	Low	Neut	Local	Short-term	Low	Low	Improb	Low	Low	No	Medium

• Loss of employment after construction	Med	Neg	Local	Short-term	Med	Medium	Highly probable	Medium	Medium	No	Medium
• Visual impacts.	Low	Neg	Local	Long term	Med	Medium	Definite	Medium	Low	No	Medium
• Impact on social infrastructure /facilities.											
Medical infrastructure/ facilities.	Low	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	High
Law enforcement services.	Low	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	Medium
School infrastructure/ facilities.	Low	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	Medium
Sport infrastructure/ facilities.	Low	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	Medium
• Impact on sense of place.	Low	Neg	Local	Short-term	Med	Medium	Probable	Medium	Low	No	Medium
• Future land use planning.	Low	Pos	Local	Med-term	Med	Medium	Probable	Medium	Low	No	Medium
• Perceived risks associated with nuclear incidents.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Assessment of no development option.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Duynefontein	Operational Phase <u>with</u> Mitigation Measures										
Impact	Cumulative	Nature	Extent	Duration	Intensity	Consequence	Probability	Significance	Reversibility	Irreplaceable resources	Confidence
• Accommodation of staff and construction workers.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Influx of job seekers.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Increase in number of informal illegal dwellings.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Creation of employment opportunities.	Low	Pos	Low	Low	Low	Low	Possible	Low	Low	No	Medium
• Business opportunities.	Low	Pos	Local	Long-term	Med	Medium	Highly probable	Medium	Low	No	High
• Impact on criminal activities.	Low	Neg	Local	Med-term	Low	Low	Possible	Low	Low	No	Medium
• Risk of SDTs, HIV and AIDS.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Municipal services.											
Water and sanitation.	Low	Neg	Local	Short term	Low	Low	Possible	Low	High	No	Medium
Roads and transport.	Low	Neg	Local	Long term	Med	Low	Possible	Low	Low	No	Medium
Waste and refuse.	Low	Neg	Local	Long term	Med	Low	Probable	Low	Low	No	Medium
• Traffic impacts.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Noise and dust impacts.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Loss of employment after construction.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

• Visual impacts.	Low	Neg	Local	Long-term	Med	Medium	Definite	Medium	Low	No	Medium
• Impact on social infrastructure /facilities.											
Medical infrastructure/ facilities.	Low	Neg	Local	Long-term	Low	Low	Possible	Low	Low	No	High
Law enforcement services.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
School infrastructure/ facilities.	Low	Neg	Local	Long-term	Med	Medium	Probable	Low	Low	No	High
Sport infrastructure/ facilities.	Low	Neg	Local	Long-term	Med	Medium	Probable	Low	Low	No	Medium
• Impact on sense of place.	Low	Neg	Local	Long-term	Med	Medium	Probable	Medium	Low	No	Medium
• Future land use planning.	Low	Pos	Local	Long-term	Med	Medium	Probable	Medium	Low	No	Medium
• Perceived risks associated with nuclear incidents.	Medium	Neg	Local	Long-term	Med	Medium	Probable	Medium	Low	No	Medium
• Assessment of no development option.	Medium	Neg	Local	Long-term	Med	Medium	Probable	Medium	Low	No	Medium

Bantamsklip	Construction Phase <u>with</u> Mitigation Measures										
Impact	Cumulative	Nature	Extent	Duration	Intensity	Consequence	Probability	Significance	Reversibility	Irreplaceable resources	Confidence
• Accommodation of staff and construction workers.	Medium	Neg	Local	Med - term	High	Medium	Possible	Medium	Medium	No	High
• Influx of job seekers.	Medium	Neg	Local	Med - term	Med	Medium	Probable	Medium	Medium	No	High
• Increase in number of informal illegal dwellings.	Medium	Neg	Local	Med - term	Med	Medium	Possible	Low	Medium	No	Medium
• Creation of employment opportunities.	Medium	Pos	Local	Med-term	High	High	Definite	High	Medium	No	High
• Business opportunities.	Medium	Pos	Local	Med-term	Med	Medium	Definite	Medium	Medium	No	High
• Impact on criminal activities.	Medium	Neg	Local	Med-term	Med	Medium	Highly probable	Medium	Medium	No	Medium
• Risk of SDTs, HIV and AIDS.	Medium	Neg	Local	Med-term	Med	Medium	Possible	Low	High	No	Medium
• Municipal services.											
Water and sanitation.	Medium	Neg	Local	Med-term	Med	Medium	Highly probable	Medium	Low	No	High
Roads and transport.	Medium	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	High
Waste and refuse.	Medium	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	Medium
• Traffic impacts.	Medium	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	Medium
• Noise and dust impacts.	Low	Neut	Local	Short-term	Low	Low	Improb	Low	Low	No	Medium

• Loss of employment after construction	Medium	Neg	Local	Short-term	Med	Medium	Definite	Medium	Medium	No	Medium
• Visual impacts.	Medium	Neg	Local	Long-term	Med	Medium	Definite	Medium	Low	No	High
• Impact on social infrastructure /facilities.	Medium	Neg	Local	Med-term	Med	Medium	Highly probable	Medium	Low	No	High
Medical infrastructure/ facilities.	Medium	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	High
Law enforcement services.	Medium	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	Medium
School infrastructure/ facilities.	Medium	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	High
Sport infrastructure/ facilities.	Medium	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	High
• Impact on sense of place.	Medium	Neg	Local	Short-term	Med	Medium	Highly probable	Medium	Low	No	High
• Future land use planning.	Medium	Pos	Local	Med-term	Med	Medium	Highly probable	Medium	Low	No	Medium
• Perceived risks associated with nuclear incidents.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Assessment of no development option.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Bantamsklip	Operational Phase <u>with</u> Mitigation Measures										
Impact	Cumulative	Nature	Extent	Duration	Intensity	Consequence	Probability	Significance	Reversibility	Irreplaceable resources	Confidence
• Accommodation of staff and construction workers.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Influx of job seekers.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Increase in number of informal illegal dwellings.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Creation of employment opportunities.	Low	Pos	Low	Low	Low	Low	Possible	Low	Low	No	Medium
• Business opportunities.	Low	Pos	Local	Long-term	Med	Medium	Highly probable	Medium	Low	No	High
• Impact on criminal activities.	Low	Neg	Local	Med-term	Low	Low	Possible	Low	Low	No	Medium
• Risk of SDTs, HIV and AIDS.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Municipal services.											
Water and sanitation.	Low	Neg	Local	Short term	Low	Low	Possible	Low	High	No	Medium
Roads and transport.	Low	Neg	Local	Long term	Med	Low	Probable	Low	Low	No	Medium
Waste and refuse.	Low	Neg	Local	Long term	Med	Low	Probable	Low	Low	No	Medium
• Traffic impacts.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Noise and dust impacts.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Loss of employment after construction	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

• Visual impacts.	Medium	Neg	Local	Long-term	Med	Medium	Definite	Medium	Low	No	High	
• Impact on social infrastructure /facilities.												
Medical infrastructure/ facilities.	Medium	Neg	Local	Long-term	Med	Medium	Probable	Low	Low	No	High	
Law enforcement services.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
School infrastructure/ facilities.	Medium	Neg	Local	Long-term	Med	Medium	Probable	Low	Low	No	High	
Sport infrastructure/ facilities.	Medium	Neg	Local	Long-term	Med	Medium	Probable	Low	Low	No	High	
• Impact on sense of place.	Medium	Neg	Local	Long-term	Med	Medium	Highly probable	Medium	Low	No	High	
• Future land use planning.	Medium	Pos	Local	Long-term	Med	Medium	Highly probable	Medium	Low	No	Medium	
• Perceived risks associated with nuclear incidents.	Medium	Neg	Local	Long-term	Med	Medium	Probable	Medium	Low	No	High	
• Assessment of no development option.	Medium	Neg	Local	Long-term	Med	Medium	Highly probable	Medium	Low	No	High	

Thyspunt	Construction Phase <u>with</u> Mitigation Measures										
Impact	Cumulative	Nature	Extent	Duration	Intensity	Consequence	Probability	Significance	Reversibility	Irreplaceable resources	Confidence
• Accommodation of staff and construction workers.	Medium	Neg	Local	Med-term	High	Medium	Possible	Medium	Medium	No	High
• Influx of job seekers.	Medium	Neg	Local	Med-term	Med	Medium	Probable	Medium	Medium	No	High
• Increase in number of informal illegal dwellings.	Medium	Neg	Local	Med-term	Med	Medium	Possible	Low	Medium	No	Medium
• Creation of employment opportunities.	Medium	Pos	Local	Med-term	High	High	Definite	High	Medium	No	High
• Business opportunities.	Medium	Pos	Local	Med-term	Med	Medium	Definite	Medium	Medium	No	High
• Impact on criminal activities.	Medium	Neg	Local	Med-term	Med	Medium	Highly probable	Medium	Medium	No	Medium
• Risk of SDTs, HIV and AIDS.	Medium	Neg	Local	Med-term	Med	Medium	Possible	Low	High	No	Medium
• Municipal services.											
Water and sanitation.	Medium	Neg	Local	Med-term	Med	Medium	Highly probable	Medium	Low	No	High
Roads and transport.	Medium	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	High
Waste and refuse.	Medium	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	Medium
• Traffic impacts.	Medium	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	Medium
• Noise and dust impacts.	Medium	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	Medium

• Loss of employment after construction.	Med	Neg	Local	Short-term	Med	Medium	Definite	Medium	Medium	No	Medium
• Visual impacts.	Medium	Neg	Local	Long-term	Med	Medium	Definite	Medium	Low	No	High
• Impact on social infrastructure /facilities.	Medium	Neg	Local	Med-term	Med	Medium	Highly probable	Medium	Low	No	High
Medical infrastructure/facilities.	Medium	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	High
Law enforcement services.	Medium	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	Medium
School infrastructure/facilities.	Medium	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	Medium
Sport infrastructure/facilities.	Medium	Neg	Local	Med-term	Med	Medium	Probable	Low	Low	No	High
• Impact on sense of place.	Medium	Neg	Local	Short-term	Med	Medium	Highly probable	Medium	Low	No	High
• Future land use planning.	Medium	Pos	Local	Med-term	Med	Medium	Highly probable	Medium	Low	No	Medium
• Perceived risks associated with nuclear incidents.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Assessment of no development option.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Thyspunt	Operational Phase <u>with</u> Mitigation Measures										
Impact	Cumulative	Nature	Extent	Duration	Intensity	Consequence	Probability	Significance	Reversibility	Irreplaceable resources	Confidence
• Accommodation of staff and construction workers.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Influx of job seekers.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Increase in number of informal illegal dwellings.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Creation of employment opportunities.	Low	Pos	Low	Low	Low	Low	Possible	Low	Low	No	Medium
• Business opportunities.	Low	Pos	Local	Long-term	Med	Medium	Highly probable	Medium	Low	No	High
• Impact on criminal activities.	Low	Neg	Local	Med-term	Low	Low	Possible	Low	Low	No	Medium
• Risk of SDTs, HIV and AIDS.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Municipal services.											
Water and sanitation.	Low	Neg	Local	Short term	Low	Low	Possible	Low	High	No	Medium
Roads and transport.	Low	Neg	Local	Long term	Med	Low	Probable	Low	Low	No	High
Waste and refuse.	Low	Neg	Local	Long term	Med	Low	Probable	Low	Low	No	Medium
• Traffic impacts.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Noise and dust impacts.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
• Loss of employment after construction	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

• Visual impacts.	Medium	Neg	Local	Long-term	Med	Medium	Definite	Medium	Low	No	High
• Impact on social infrastructure /facilities.											
Medical infrastructure/ facilities.	Medium	Neg	Local	Long-term	Med	Medium	Probable	Low	Low	No	High
Law enforcement services.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
School infrastructure/ facilities.	Medium	Neg	Local	Long-term	Med	Medium	Probable	Low	Low	No	High
Sport infrastructure/ facilities.	Medium	Neg	Local	Long-term	Med	Medium	Probable	Low	Low	No	High
• Impact on sense of place.	Medium	Neg	Local	Long-term	Med	Medium	Highly probable	Medium	Low	No	High
• Future land use planning.	Medium	Pos	Local	Long-term	Med	Medium	Highly probable	Medium	Low	No	Medium
• Perceived risks associated with nuclear incidents.	Medium	Neg	Local	Long-term	Med	Medium	Probable	Medium	Low	No	High
• Assessment of no development option.	Medium	Neg	Local	Long-term	Med	Medium	Highly probable	Medium	Low	No	High