

Appendices

Appendix A: EAP Curriculum Vitae

Chris Dalgliesh

Principal Consultant



Profession	Environmental Practitioner
Education	MPhil (EnvSci) with Distinction, Cape Town, 1994 BBusSc (Hons), Cape Town, 1985
Registrations/ Affiliations	Cert Envir Assessment Practitioner (South Africa) (10/2002) Member International Association of Impact Assessment

Specialisation Environmental management consulting.

Expertise Chris Dalgliesh has been involved in environmental projects for the past 23 years. His expertise includes:

- ESIA, EMPR, environmental planning and management and environmental management system projects;
- socio-economic impact assessments;
- environmental management systems (ISO 14001);
- waste management;
- environmental permitting;
- environmental and social due diligence;
- stakeholder engagement;
- strategic environment assessments and management plans;
- environmental review and reporting;
- training;
- state of environment reporting;
- environmental management frameworks;
- site safety reports for the nuclear industry;
- natural resource management.

Employment

2000 – Present	SRK Consulting (Pty) Ltd, Partner and Principal Environmental Consultant
1999 – 2000	Arcus Gibb (Pty) Ltd, Associate, Cape Town, South Africa
1996 – 1998	African Environmental Solutions (Pty) Ltd, Senior Environmental Consultant
1994 – 1996	Environmental Evaluation Unit, Environmental Consultant, UCT
1991 – 1993	Novello Music Publishers, Marketing Manager, London, UK
1988 – 1990	JR Phillips, Product Manager, Wokingham, UK
1986 – 1988	Unilever, Trade and Assistant Brand Manager, Durban, South Africa

Publications I have been interviewed and quoted in numerous environmental and sustainability articles published in the press and sector specific journals, including *Engineering News*, *Mining News*, *Business Report* and *Cape Times*, and am a frequent guest lecturer.

Languages English – read, write, speak
Afrikaans – read, write, speak

Chris Dalgliesh

Principal Consultant

Environmental (and Social) Impact Assessment (ESIA) and Environmental Management Programmes (EMP)

- Tronox Namakwa Sands, EIA for new slimes dam, Brand se Baai, Western Cape Province, South Africa, 2015 – ongoing, R900,000
- The River Club, EIA for redevelopment of the property, Cape Town, Western Cape Province, South Africa, 2015 – ongoing, R500,000
- SIMO Petroleum Ltd, ESIA for fuel supply project, Guinea, 2015, US\$200,000
- SIMO Petroleum Ltd, EIA for fuel supply project, Liberia, 2015, US\$200,000
- Eskom, EIA for Transient Interim Storage Facility, Western Cape, South Africa, 2015 – ongoing, R900,000
- Falcon Oil & Gas, Environment Management Programme Report (EMPr) update and engagement, Western, Northern and Eastern Cape, South Africa, 2014 – 2015, US\$90,000
- Department of Environmental Affairs (DEA), Waste Management Licence applications and Basic Assessment for 20 waste facilities, Western Cape, South Africa, 2014 – 2015, R2,600,000
- Sable Mining / West Africa Explorations (WAE), Cumulative Impact Assessment (CIA) for WAE's Nimba iron ore mine, Guinea, May 2014 – on hold, US\$90,000
- De Beers Buffalo Camp, Basic Assessment and EMPr Amendment, Kimberley, Northern Cape, 2014, R260,000
- EFG Engineers, EIA for Hermanus bypass road, Western Cape Province, South Africa, 2014 – ongoing, R800,000
- SRK Turkey, CIA of Copley gold mine, Turkey, 2014, US\$30,000
- Sable Mining Africa Ltd, ESIA for railway line and port expansion, Liberia, 2014, US\$480,000
- Tronox Namakwa Sands, EIA for abalone farm, Brand se Baai, Western Cape Province, South Africa, 2014 – ongoing, R1,050,000
- Matzikamma Municipality, EIAs for three abalone farms, Doringbaai, Western Cape Province, South Africa, 2014 – ongoing, R1,100,000
- De Beers, EMPr amendment for fine residue pond, Kimberley, South Africa, 2013, R120,000
- AES, ESIA of landfill, Soyo, Angola, 2013, US\$70,000
- PetroSA, EIA of offshore gasfield, Southern Cape, South Africa, 2013 – ongoing, R500,000
- EnergieBedrijven Suriname, ESIA for new power plant, Suriname, 2013, US\$135,000
- AES, ESIA of Thermal Desorption Unit, Soyo, Angola, 2013, US\$65,000
- Staatsolie Maatschappij Suriname, Rapid EIA of power plant expansion, Suriname, September 2012 – 2014, US\$100,000
- BP, ESIA of Blocks 18 & 31 Drilling and Seismic Survey, Angola, 2012, US\$40,000
- Frontier, EIA for desalination plant and water pipeline, Abraham Villiers Bay, Northern Cape, South Africa, August 2012 – ongoing, R1,250,000
- Tronox Namakwa Sands, EIA /EMPr for two mining application areas, Namakwaland, Western Cape Province, South Africa, 2012 – ongoing, R1,250,000
- Airports Company South Africa, EIA of realignment of runway, Cape Town International Airport, Western Cape, South Africa, R2,675,000

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- Grindrod Mauritius, EIA of Matola Coal Terminal Phase 4 Expansion, Maputo, Mozambique, 2012 - 2013, US\$425,000
- Maersk, ESIA of Block 16 Seismic Survey, Angola, 2010 – 2011, US\$25,000
- Staatsolie Maatschappij Suriname, EIA for diesel, gasoline and LGP pipelines, Suriname, October 2011 – 2013, US\$120,000
- Premier Fishing, EIA for re-establishment of fishmeal plant, Saldanha Bay, South Africa, May 2011 – 2015, R1,200,000
- Eni Angola BV, ESIA of development of Block 15/06 West Hub oil fields, Angola, 2011 - 2013, US\$110,000
- Falcon Oil & Gas, EMPr, Western, Northern and Eastern Cape, South Africa, 2010 – 2011, US\$100,000
- Great Western Minerals Group, EIA and EMPr of rare earth mine, Vanrhynsdorp, Western Cape, South Africa, 2010 – 2012, R1,760,000
- Vale, ESIA of phosphate mine, Nampula Province, Mozambique, 2010 – 2013, US\$630,000
- Sonangol Lda, EIA (x6) of onshore hydrocarbon facilities, Luanda, Malange and Lubango, Angola, March – November 2010, US\$280,000
- Empresa Moçambicana de hidrocarbonetos and Buzi Hydrocarbons Pty Ltd, ESIA for seismic surveys and exploration drilling in Buzi Block, Sofala Province, Mozambique, 2009 – 2010, US\$200,000
- Staatsolie, ESIA of refinery expansion, Paramaribo, South America, 2009 – 2010, US\$400,000
- Sasol Technology, EIA for proposed new gas pipeline from Ressano Garcia to Moamba, Mozambique, Moamba, Mozambique, 2009 – 2010, R1,000,000
- Anglo American, State of Environment Report, Strategic Environment Assessment, and ESIA of Gamsberg zinc mine, Aggeneys, South Africa, 2008 – 2010, R13,000,000
- CIC Energy, Environmental screening and fatal flaw assessment of Trans Kalahari Railroad and port, Botswana and Namibia, 2008 – present, R1,300,000
- BHP Billiton, ESIA of Corantijn River dredging, Suriname, 2007 – 2008, US\$750,000
- BHP Billiton, ESIA of Bakhuis transport project, Suriname, 2006 – 2008, US\$1,600,000
- Altona Developments, EIA of mixed development, Worcester, Western Cape Province, South Africa, 2006 – 2010, R750,000
- BHP Billiton, ESIA of Bakhuis bauxite mine, Suriname, 2005 – 2008, US\$3,200,000
- Levendal Developments (Pty) Ltd, EIA of mixed development, Suider-Paarl, Western Cape Province, South Africa, 2005 – 2008, R450,000
- Bevcan, Angola, EIA of canning facility, Viana, Angola, 2005 -2010, US\$75,000
- Chevron Texaco, EIA of landfill, Cabinda, Angola, 2004 – 2005, US\$90,000
- Attpower Developments (Pty) Ltd, EIA of mixed coastal development, Mossel Bay, Western Cape Province, South Africa, 2004, R600,000
- Intels Services Luanda, EIA of landfill, Cacuaco, Angola, 2004, US\$65,000
- Kwezi V3, EIA of waste water treatment works, Gansbaai, Western Cape Province, South Africa, 2003 – 2005, R350,000
- City of Cape Town, EIA of Fisantekraal waste water treatment works, Cape Town, Western Cape Province, South Africa, 2003 – 2004, R450,000

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Principal Consultant

- St Francis Bay Municipality, EIA of beach remediation, St. Francis Bay, Eastern Cape Province, South Africa, 2002 – 2003, R300,000
- City Of Cape Town, Environmental Impact Control Report of Vissershok North landfill, Western Cape Province, South Africa, 2001 – 2004, R175,000
- NDC, EMPr for NDC diamond mine, Vredendal district, Western Cape Province, South Africa, 2001 – 2003, R800,000
- Coega Development Corporation, EIA for rezoning, Eastern Cape Province, South Africa, 1999, R85,000
- BHP Billiton, EIA (Scoping) of Alusaf Hillside smelter, Richards Bay, KwaZulu-Natal Province, South Africa, 1999, R150,000
- Gencor, EIA of zinc refinery and phosphoric acid plant, Port Elizabeth, Eastern Cape Province, South Africa, 1995 – 1998, R800,000
- Duferco, EIA of steel rolling mini-mill, Saldanha, Western Cape Province, South Africa, 1997, R90,000
- Hoechst, EIA of polymer extension, Durban, KwaZulu-Natal Province, South Africa, 1993 – 1994, R280,000

Environmental Planning and Natural Resource Management

- Tronox Namakwa Sands, Development of Closure Commitments and Rehabilitation Monitoring Plan Namakwaland, Western Cape Province, South Africa, 2015 – ongoing, R600,000
- West Coast District Municipality, Integrated Coastal Management Plan, West Coast, South Africa, 2012 – 2013, R700,000
- City of Cape Town, Environmental Management Framework and control zones, Cape Town, Western Cape Province, South Africa, 2008 – 2009, R600,000
- Eskom, Ecological Reports, Koeberg, Bantamsklip and Thyspunt, South Africa, 2008 – present, R900,000
- City of Cape Town, Environmental Management Framework and control zones, Cape Town, Western Cape Province, South Africa, 2008, R500,000
- Knysna Municipality, State of Environmental Report, Western Cape Province, South Africa, 2004 – 2005, R130,000
- Western Cape State of Environmental Report, Environmental report, 2004 – 2005, R1,400,000

Environmental and Social Review and Due Diligence

- BNP Paribas, Environmental and Social Due Diligence of Elandsfontein mine, Langebaan, South Africa, 2015, R60,000
- Tronox Namakwa Sands, Water Use Licence Audit(s), Namakwaland, Western Cape Province, South Africa, 2015 and 2014, R175,000 (x2)
- Tronox Namakwa Sands, EMPr Performance Assessment, Namakwaland, Western Cape Province, South Africa, 2014, R175,000
- Deutsche Bank, Environmental and Social Due Diligence and Annual Review of Lauca Hydropower Dam, Angola, 2014 – 2018, €300 000
- West Africa Exploration Ltd, Environment and social gap analysis of Nimba iron ore mine, Guinea, 2014, US\$80,000
- HSBC, Environmental and Social Due Diligence and Annual Review, Cambambe Hydropower Dam, Angola, 2013 – 2017, €255,000

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- Tronox Namakwa Sands, EMPr Performance Assessment, Namakwaland, Western Cape Province, South Africa, 2012 – 2013, R150,000
- Biovac, Environmental due diligence audit of pharmaceutical plant, Cape Town, Western Cape Province, South Africa, 2012, R100,000
- SRK UK, Environmental Due Diligence of phosphate mine, Brazil, 2010, US\$15,000
- SRK Russia, Environmental Due Diligence of Rossing South uranium mine, Namibia, 2009, US\$12,000
- SonaGas, EIA external review of LNG plant EIA, Soyo, Angola, 2006, US\$50,000
- Confidential, Environmental due diligence audit, Cape Town, Western Cape Province, South Africa, 2004, R80,000
- Netherlands Commission for EIA, External EIA review of Mavoco hazardous landfill EIA, Maputo, Mozambique, 2002, R30,000

Management Plans

- West Africa Exploration Ltd, Stakeholder Engagement Plan, Guinea, 2014, US\$15,000
- West Africa Exploration Ltd, Biodiversity Action Plan, Guinea, 2014, US\$20,000
- Tronox Namakwa Sands, Integrated Water and Waste Management Plan for Namakwa Sands mine, Namakwaland, Western Cape Province, South Africa, 2013 – 2014, R125,000
- Tronox Namakwa Sands, Integrated Water and Waste Management Plan for Namakwa Sands Smelter, Saldanha Bay, Western Cape Province, South Africa, 2013, R110,000
- BHP Billiton, Conceptual Closure and Rehabilitation Plan, Suriname, 2007 – 2013, US\$210,000
- Namakwa Sands, Closure plan, Namakwaland, Northern Cape Province, South Africa, 2003, R170,000

Sharon Jones

Principal Consultant



Profession	Environmental Scientist
Education	MPhil (Environmental Management), with distinction, University of Stellenbosch, 2007 BSc (Hons), (Environmental and Geographical Science), University of Cape Town, 1997 BSc, University of Cape Town, 1996
Registrations/ Affiliations	Pr Sci Nat (South Africa) (400122/05) Certified Environmental Assessment Practitioner (CEAPSA) by EAPSA Interim Certification Board Member, IAIA

Specialisation Environmental management consulting.

Expertise Sharon Jones has been involved in environmental management projects for the past 18 years. Her expertise includes:

- a number EIA's undertaken for a variety of activities including mining, airport and port development;
- compilation of Environmental Management Frameworks;
- environmental and social due diligence and gap analysis studies
- compliance audits against lender requirements (IFC, World bank);
- compilation of construction and operational phase EMPs for a range of projects;
- auditing compliance with EMPs on a number of sites.

Employment

2005 – present	SRK Consulting SA (Pty) Ltd, Principal Environmental Consultant,
2001 – 2005	Ecosense cc, Environmental Scientist, Stellenbosch
1998 – 2001	Planning Partners, Environmental Consultant, Cape Town

Publications

I have been interviewed and quoted in numerous environmental and sustainability articles published in the press and sector specific journals including:

- Localised environmental management. *Urban Green File*. August 2012, 26-31
- Environmental Management Framework for Winelands. *Environmental Management*. Jan/Feb 2012, 6-7
- Port Expansions: No Short Cuts. *Export & Import SA*. September 2013, p. 26
- No quick fix for port projects. *Civil Engineering Contractor*. November 2013, p.8.
- Happy Marriage between Civil and Environmental Engineering. *Civil Engineering*. August 2014, 58-59.

Languages

English – read, write, speak
Afrikaans– read, write, speak

Sharon Jones

Principal Consultant

Environmental and Social Impact Assessment (EIA or ESIA) and Environmental Management Programmes (EMP)

- Transnet Port Terminals, Basic Assessment for amendments to the Atmospheric Emissions Licence for the iron ore terminal, Port of Saldanha, South Africa, 2016, R 205 000
- Eskom, Basic Assessment for the construction of a powerline between the existing Bon Chretien substation in Ceres and the new Merino substation, South Africa, 2016, R 400 000
- Eskom, EIA for proposed Transient Interim Used Fuel Storage Facility, Koeberg Nuclear Power Station, South Africa, 2015 – ongoing, R 1, 000 000
- Matzikama Municipality, EIA for proposed aquaculture farms at Doringbaai, South Africa, 2015, R2,000,000
- Nadeson Consulting Service, Basic Assessment for stormwater infrastructure upgrades, Middelpoos Saldanha Bay, 2015, R290,000
- Tronox Mineral Sands (Pty) Ltd, Basic Assessment for amendments to the East OFS Project, Brand-se-Baai, 2014 - ongoing, R1,000,000
- Airports Company of South Africa, EIA and EMP, Cape Town International Airport, Cape Town, 2012 – 2015, R2,750,000
- Frontier Rare Earths SA (Pty) Ltd, Site Screening and Fatal Flaw Assessment, EIA, EMP and Coastal Water Discharge Permit, Abraham Villiers Bay, Northern Cape, 2012 – 2015, R1,400,000
- Prestedge Retief Dresner Wijnberg on behalf of Transnet, Basic Assessment and EMP, General Maintenance Quay, Port of Saldanha, 2012 – 2015, R290,000
- Hatch on behalf of Grindrod Terminals, Environmental Scoping Study, ESIA and EMP, Matola Port, Maputo, Mozambique, 2012, US\$420,000
- Vale, Environmental Scoping Study, EIA and EMP, Nampula Province, Mozambique, 2010 – 2012, US\$800,000
- Overstrand Municipality, Basic Environmental Assessment and Water Use Licence Application, Hermanus, Western Cape, 2009 – 2011, R350,000
- Staatsolie (State Oil Company), Suriname, Rapid Environmental Assessment, Suriname, South America, 2009, US \$45,000
- Transnet Capital Projects, Basic Environmental Assessment, Saldanha Bay, 2007 – 2008, R800,000
- Worcester Land Trust, EIA and EMP for Worcester Hills commercial development, Worcester, 2006 – 2009, R450,000
- Worcester Land Trust, EIA and EMP for Worcester Island mixed use development, Worcester, 2006 – 2008, R150,000
- Transnet Capital Projects, EIA for upgrade to Ben Schoeman Dock , Port of Cape Town, 2006 – 2007, R1,500,000
- Transnet Capital Projects, EIAs for various upgrades to the bulk terminal and the desalination plant, Port of Saldanha, 2005 – 2010, R22,000,000
- NV BHP Billiton Maatschappij Suriname, ESIA, Suriname, South America, 2005 – 2009, US\$160,000
- Breede River Winelands Municipality, EIA for regional landfill, Breede River Winelands, 2001 – 2007, R750,000

Sharon Jones

Principal Consultant

Strategic Environmental Planning

- Cape Winelands District Municipality, Environmental Management Framework, Cape Winelands District, Western Cape, 2010 – 2012, R1,300,000

Environmental Due Diligence

- Deutsche Bank, Environmental and Social Due Diligence and Annual Reviews, Lauca Dam, Angola, 2014 – 2018, € 300,000
- HSBC Bank, Environmental and Social Due Diligence and Annual Reviews, Cambambe Dam, Angola, 2013 – 2017, € 254,000
- Comide SPRL, Gap Analysis of EMP for Comide Copper Mine, Kolwezi, Democratic Republic of the Congo, 2012, R450,000
- SRK, Cardiff, Environmental Input into Due Diligence Review, Brazil, 2010, US \$2,000
- Confidential, Environmental Due Diligence Study, Namib-Naukluft National Park, Namibia, 2009, US \$30,000

**Appendix B:
Permission from Department of Energy for the establishment
of the TISF**



**MINISTER
ENERGY
REPUBLIC OF SOUTH AFRICA**

Private Bag X19, Arcadia, 0007, Trevenna Campus, 4th floor 2A, Cnr Meintjies and Schoeman Street, Sunnyside, Pretoria, Tel: +27(12) 444 4103, Fax: +27(12) 444 4505
Private Bag X9111, Cape Town, 8000, Parliamentary Building, 7th floor, 120 Plein Street, Cape Town, Tel: +27(21) 469 6425, Fax: +27(21) 465 5980

E2/5/9/3

Enq: Mr Katse Maphoto

Tel: (012) 444 4122

Fax: (012) 444 4285

Mr Mpho P. Makwana
Chairman
ESKOM HOLDINGS LIMITED
P.O Box 1091
Johannesburg
2000

Dear Mr. PM Makwana,

**RE: KOEBERG NUCLEAR POWER STATION (KNPS): TRANSIENT INTERIM
USED FUEL DRY STORAGE FACILITY (TISF)**

Your letter dated 28th February 2011 requesting approval in terms of the Nuclear Energy Act (47 of 1999) for the construction of TISF, the on-site storage of used nuclear fuel and its transport between the used fuel pools and TISF on the KNPS site.

In light of the above, I therefore authorise ESKOM's initiative of capacity maximization of used fuel storage and transportation at Koeberg Nuclear Power Station in terms of the Nuclear Energy Act (46 of 1999), sections 34(s)(t) and the regulations of NNR Act (47 of 1999).

Thank you for your continued co-operation.

Yours faithfully

**MS DIPUO PETERS
MINISTER OF ENERGY**

DATE: 21/04/2011

Appendix C: List of Registered Stakeholders

Name	Capacity	Organization
A - Potentially affected property owners		
Norman, Jan	Homeowner and adjacent property owner: Erf 3108 Duvnefontein	
Greef, Greg	Landowner and adjacent property owner: Dynefontein 34	
B - Organs of state		
Smart, Rhett	Scientific Services: Land Use Advice	CapeNature
Hector, Wayne	Assistant Director	Department of Environmental Affairs
Mokoena, Lerato		Department of Environmental Affairs
Gildenhuys, Ian	City of Cape Town: Head Specialised Environmental Health	City of Cape Town
Titmuss, Pat	Environmental and Heritage Management Branch Regional Manager: Northern Districts B & C (Milnerton to Atlantis, Durbanville/Kraaifontein)	City of Cape Town
Theron, Morne		City of Cape Town
Matthys, Lynelle	CoCT Air Quality Management	City of Cape Town
Buthelezi, Thoko		Department of Agriculture, Forestry and Fisheries
Marubini, Mashuduma		Department of Agriculture, Forestry and Fisheries
Stolz, Annette		Department of Agriculture, Forestry and Fisheries
Kgomo, Ditebogo		Department of Energy
Makgopa, Bessie		Department of Energy
Maphoto, Katse		Department of Energy
Phahlamohlaka, Brenda		Department of Energy
Tshepe, Tshekane		Department of Energy
Makhathini, Simphiwe		Department of Public Enterprises
Tsebe, Andretta		Department of Public Enterprises
Malala, Michael		Department of Rural Development and Land Reform
Makhura, Mmule		Department of Transport
Situma, Lanfranc		Department of Transport
Daniels, Derril		Department of Water and Sanitation
Jerardino, Antonieta		Heritage Western Cape
Mkhabela, Dr. Peter	Programme Manager Designate: NPP	National Nuclear Regulator
Hill, Tim		National Nuclear Regulator
Makgae, Reuben		National Nuclear Regulator
Majola, Vanessa	Koeberg Site Office	National Nuclear Regulator
Moonsamy, Gino		National Nuclear Regulator
Mogorosi, Bhepiso		National Nuclear Regulator
Nhlapo, Gift		National Nuclear Regulator
Seitsei, Victoria		National Nuclear Regulator
Ramerafe, Mothusi		National Nuclear Regulator
Tselane, Thabo		National Nuclear Regulator

Thiele, Emile	Nuclear SIP Coordinator	
Runkel, Colleen	Western Region	SANRAL
Galimberti, Maria		South African Heritage Resources Agency (SAHRA)
Patientia, Emerentia		Western Cape Department of Agriculture
Kriel, Wouter		Western Cape Department of Agriculture
Ansaas, Mohamed		Western Cape Department of Community Safety
Fourie, Solly		Western Cape Department of Economic Development and Tourism
Scholtz, Abigail		Western Cape Department of Economic Development and Tourism
Dolby, James		Western Cape Department of Economic Development and Tourism
Windvogel, Raybin		Western Cape Department of Economic Development and Tourism
van Wyk, Anthony	Specialised Environmental Officer: Production Pollution Prevention and Regulatory Services	Western Cape Department of Environmental Affairs and Development Planning
Hanekom, Eddie	Waste Management	Western Cape Department of Environmental Affairs and Development Planning
Mcbain-Charles, Lance	Waste Management	Western Cape Department of Environmental Affairs and Development Planning
Pienaar, Eugeune		Western Cape Department of Environmental Affairs and Development Planning
Arendse, Shaun		Western Cape Department of Environmental Affairs and Development Planning
Leaner, Dr Joy	Air quality management	Western Cape Department of Environmental Affairs and Development Planning
Harmse, Peter	Air quality management	Western Cape Department of Environmental Affairs and Development Planning
Parker, Bhawoodien	Air quality management	Western Cape Department of Environmental Affairs and Development Planning
Arendse, Gottlieb		Western Cape Department of Environmental Affairs and Development Planning
Kloppers, Wilna	Pollution and chemicals management	Western Cape Department of Environmental Affairs and Development Planning
Mehl, Russell	Pollution and chemicals management	Western Cape Department of Environmental Affairs and Development Planning
Brown, Zayed	Pollution and chemicals management	Western Cape Department of Environmental Affairs and Development Planning
Dreyer, Taryn		Western Cape Department of Environmental Affairs and Development Planning
Schippers, Melanese		Western Cape Department of Environmental Affairs and Development Planning
Gabriel, Alvan		Western Cape Department of Environmental Affairs and Development Planning
La Meyer, Adri		Western Cape Department of Environmental Affairs and Development Planning
Fast, Hildegard		Western Cape Department of Local Government
Willet, Amanda		Western Cape Department of Local Government
Paulse, Graham		Western Cape Department of Local Government
Deiner, Colin		Western Cape Department of Local Government
Robinson, Maurice		Western Cape Department of Social Development
Jacobs, Agatha		Western Cape Department of Social Development
Bredenkamp, Cailey		Western Cape Department of Transport and Public Works
Du Plessis, Jan		Western Cape Department of Transport and Public Works
Kleynhans, Chrizette		Western Cape Nature Conservation Board
Fanner, Steve		Western Cape Roads Authority
Strydom, Sandy		Western Cape Roads Authority

Swanepoel, Grace		Western Cape Roads Authority
Leedo, Bettie	Environmental Health: Western District	City of Cape Town
Ditiniti, Funanani		DEA: Oceans and Coasts
Van Rensburg, Neville	EMS Services	Western Cape Government
C - Councillors		
Grose, Nora	Ward Councillor: Ward 23	City of Cape Town
Clayton, Cynthia	Ward Councillor: Ward 29	City of Cape Town
Fredericks, Marthinus	Ward 29: Interim Treasurer, Tourism & Environmental Sector	Atlantis Council of Stakeholders
Kastoor, Llewellyn	Ward 29: Social Development Sector	Atlantis Council of Stakeholders
Kok, Cornelius	Ward 29: Agriculture Sector	Atlantis Council of Stakeholders
Kubisa, Geraldine	Ward 29: Frail Care Sector	Atlantis Council of Stakeholders
Lightburn, Allister	Ward 29: Youth Sector	Atlantis Council of Stakeholders
Muzeli, Enid	Ward 29: Interim Secretary: Frail Care Sector	Atlantis Council of Stakeholders
Petersen, Linley	Ward 29: Administrator	Atlantis Council of Stakeholders
Van Rooyen, Manfred	Ward 29: Ward Councillor, Comprehensive Rural Development Programme; Chairperson, Management Committee; Interim Chairperson, Business Development Sector	Atlantis Council of Stakeholders
Mack, Cyril	Atlantis Ward Councillor	
Rass, Barbara	Ward Councillor: Ward 32	City of Cape Town
Makeleni, Lubabalo	Ward Councillor: Ward 104	City of Cape Town
Basson, Justin	Ward Councillor: Ward 105	City of Cape Town
Brenner, Heather	Ward Councillor: Ward 107	City of Cape Town
Titus, CR	Development and Housing Sector	Mamre Council of Stakeholders
Jansen van Vuuren, Marissa	Ward Councillor: Melkbosstrand	
Abrahams, Abobarka	Chairperson	Pella Council of Stakeholders
D - Other insitutional stakeholders		
Mlonyeni, Thembi	Chief Development Officer	Cape Agency for Sustainable Integrated Development in Rural Areas
Borrill, Les		Eskom
de Villiers, Carin		Eskom
Engel, Kevin		Eskom
Featherstone, Keith		Eskom
Francis, Adrian		Eskom
Geldenhuis, Lester		Eskom
Goosen, M		Eskom
Henderson, N		Eskom
Henkeman, Pauline	Generation Communication and Stakeholder Management	Eskom
Herbert, Michelle		Eskom
Ismail, E		Eskom
Jenkins, Marina	Koeberg Visitor Centre	Eskom
Greef, Gert	Regional Manager (acting) Portfolio Gx Nuclear Land Management	Eskom Real Estate Management
Mthombeni, Princess		NECSA
Rennie-Kroon, Amelia		NECSA
Tengimfene, Nikelwa		NECSA
Nongane, Phenyio	Corporate Communication	NECSA
Joshua, Debbie		Eskom
Kerr, Evan		Eskom
Kline, Kim		Eskom
Krause, M		Eskom

Le Roux, Jurina		Eskom
Makgae, Lerato	Stakeholder engagement	Eskom
Matsabatsa, G		Eskom
Matshidza, D		Eskom
Mokgwatlheng, L		Eskom
Moffat, Robert	BSc. Chemical Engineer at Koeberg	Eskom
Naidoo, Cassandra		Eskom
Nel, A		Eskom
Peters, Owen		Eskom
Phalanndwa, S		Eskom
Pienaar, Shaun		Eskom
Pru, Nhin		Eskom
Radebe, Phindile		Eskom
Reissenzahn, George		Eskom
Saaymans, Martin		Eskom
Moodley, Trevor	Quality Control	Eskom
Xulibana, V	Koeberg	Eskom
Stwayi, Mandisi	Koeberg	Eskom
Dyabaza, Jongi	Koeberg	Eskom
Ovis, Renee	Koeberg	Eskom
Bakardien, Riedewaan	Koeberg: Power Station Manager	Eskom
Matthee, Felix	Koeberg: Chemist	Eskom
Jones, John	Koeberg: Engineer	Eskom
Terblanche, C	Nuclear Project Manager	Eskom
Perryman, Lindley		Eskom
Kruger, Ludie	Disaster Management Melkbos	Eskom
Jonker, Nikki		Eskom
Foster, N	NE	Eskom
Staffen, Kelvin		Eskom
Tertius Karsten		Eskom
Trollope, Ian		Eskom
van der Westhuizen, K		Eskom
Vawda, Tasneem		Eskom
Xaso, Simphiwe		Eskom
Cosgrove, Tracey	Treasury Manager, Risk and Compliance	PetroSA
Beukes, Willem		South African Nuclear Energy Cooperation (NECSA)
Kordom, Debra		South African Nuclear Energy Cooperation (NECSA)
Jooste, Nico	Detective warrant officer	Melkbosstrand SAPS
Captain van de Toorn	Station Commander	Melkbosstrand SAPS
Labuschagne, Fritz	Chairperson	Melkbosstrand Police Forum
Atkinson, Helena		WESSA
Gubb, Andy		WESSA
Ratsbon, S		WESSA
E - Community organisations		
White, Harry		Atlantic Beach Home Owners Association
Nagan, Roy		Atlantis Civic Association
Smith, Glodene	Sub-Forum Chairperson	Atlantis Community Police Forum (CPF)
Carolus, Warren	Secretariat	Atlantis Police Forum
Daniels, Veronica	Vice Chairperson	Atlantis SAPS
Tajoodien, Abdul G	Chairperson	Atlantis Community Police Forum & Milnerton Cluster
Mentor, C and J		Atlantis RDP (Forum 1)
Rass, Wendy		Atlantis Womens Movement
Leslie, Warren		Bloubergstrand Residents Association

Gee, Patricia		Blaauwberg Coast Tourism Association
Dorse, Clifford		Blaauwberg Conservation area
Raubenheimer, Louis		Blaauwberg Conservation area
La Grange, Smokie	Chairperson	Koeberg Public Safety Information Forum
Taylor, John	Chairperson	Melkbosstrand Neighbourhood Watch, Melkbosstrand Community Police Forum
Kleynns, Samie	Chairperson	Melkbosstrand Community Police Forum
Courtney, Trevor		Melkbosstrand Neighbourhood Watch
Titus, Charles	Chairperson	Mamre CoC Executive Members
Fritz-Whyte, Amanda		Melkbosstrand Ratepayers Association
Johnson, Kurt		Melkbosstrand Ratepayers Association
Johnson, Teresa		Melkbosstrand Ratepayers Association
Laing, Brett		Melkbosstrand Ratepayers Association
Simon, Mark		Melkbosstrand Ratepayers Association
Smith, Gary		Melkbos Resident Association
Williamson, Raymond	Member	Melkbosstrand Ratepayers Association
Van Der Merwe, Andre	Chairperson	Neighbourhood Watch (NHW)
Smith, Shawn		South African Police Service (SAPS)
Munro, Lisa	Communication Officer	Tableview SAPS
Colonel Vosloo	Station Commander	Tableview SAPS
Jarrett, Barrie	Chairman (Sector 1)	Table View Community Police Forum
Jordaan, Anne Marie		Table View Ratepayers Association
Siyo, Phinda		Table View/ Parklands Residents Association
Mr Marthinus	Chairperson	Atlantis Principals Forum
Mr Sedeman	Secretariat	Atlantis Principals Forum
David Willemse	Fire and Safety Education Co-ordinator	Atlantis Fire Station
Smith, Renier	Group Manager	Garden Cities NPC (RF)
Moodley, Trevor		Tygerberg Ratepayers Association
F- Project Team		
Fick, Nettie	Project Management	Eskom
Petersen, Sarkina	Planner	Eskom
September, Anita	Project Administrator	Eskom
Sekoko, Israel	Nuclear Sites	Eskom
Olivier, Jaco	Corporate Affairs	Eskom
Herbert, Michelle	Environmental Management	Eskom
Sataar, Haaroen	Spent Fuel Storage Project Manager	Eskom
Makhothe, Matse	Spent Fuel Storage Project Chief Physicist- Licencing Coordinator	Eskom
Krause, Martin	Security Representative	Eskom
Lavelot, Randall	Spent Fuel Storage Project Manager	Eskom
Phidza, Lewis	Koeberg Stakeholder Management Manager	Eskom
Jappie, Tayeb	Project Director	Eskom
Lawrence, Alan	Design Engineer	Eskom
Jeannes, Deon	Koeberg Environmental Management	Eskom

Vernon, Mark	Design Engineer	Eskom
Pieterse, Stephen	Radiation Protection Engineer	Eskom
Potgieter, Luka	Project Manager Phase 2 of Project	Eskom
Davis, Sedick	Nuclear Project Management	Eskom
Jonas, Ryan	Environmental Management	Eskom
G - Other stakeholders		
Adair, Gaynor		NMC
Adair, Rosemary		NMC
Ahmed, Yekeen		Metro EMS
Alias, L		Thusong Centre
Anderson, Melville	Private	
Andrews, Melanie		Cuddle Care ECDt, Atlantis COS
Baker, Alto		
Baptista, Moira		
Bevan, Cynthia		
Botes, Maralise		
Boulanger, Catherine Irene		
Brandt, HL		BCD Town Planners
Braswell, Jackie		Cape Theological Seminary
Brown, Mike and Clare	Private	
Browne, Peter	Private	
Cannel, Roger	Private	
Ceglowski, Renata	Private	
Christian, Eric Dominique	Private	
Cloete, Priscilla	PRO and fundraiser	Orion Organisation
Cwaile, Tshepo Shane		
Dampies, Jeremiah		
Decinti, Maurizio		
De Villiers, Carin	Private	
De Waal, Daniel		
Dobson, Clive		
Ducase, Daryl	Private	
Ellis, Cornia		
Farrand, Steve		
Gelant, Alida	Private	
Grose, Nora	Private	
Gunda, Ronald	Private	
Hall, Gary	Private	
Handt, Brema	Private	
Hotten, Alexandra	Private	
Iosiphakis, John	Private	
Jentu, Mwezi	Private	
La Grange, Duval		
Lakhani, Muna		Earthlife Africa (Cape Town)
Lategan, Peter		Atlantis Media & Publicity Office
Lee, Nick	Private	
Lewies, Ben		Orion Organisation
Lewis, Deidré		
Lewis, Lloyd		
Luhanga, Peter		Media Impact24
Macalex, Justin		
MacGiver, Margaret		Friend of Riettvlei
Malusi, Sizeka	Private	
Manguwo, L		UGS
Maigrot, Mr and Mrs	Private	
Makubalo, Zanoxolo	Private	
Matthews, John		Garden Cities

Mayhew, Robert and Sylvia	Member of Koeberg PSIF	
Mettler, Ferdinand		
Meyer, Carola	Private	
Meyer, Yolande	Centre Manager	Eden on the Bay Mall
Meyrick, M.A.C	Private	
M'Gill Grant		My Gas
Mtya, Sizeke	Private	
Mtya, Yuneka	Private	
Mvunelwa, Maphelo	Private	
Nilsson, Napoleon		
Nyoka, Tembile		Nceduluntu Academy of Learning
Odendaal, WJ		
Olifant, Danny		
Opperman, Elbe	Private	
Opperman, Francois	Private	
Pannaye, Angelique	Private	
Payne, Samantha-Ann	Private	
Pereira, Jose		Lesedi
Pienaar-Bouwer, Audrey	Private	
Pierre-Eugene, Sav	Private	
Piloso Mogale, Wilson	Private	
Pombo-van Zyl, Nicolette		
Radmyn, Dave	Private	
Ralston, Samantha		Birdlife SA
Renier, Smith		Garden Cities
Richards, Ananda	Private	
Rothen, Ueli	Private	
Saayman, Desmond		
Schwarz, Elke	Private	
Slabbert, J A	Private	
Sleggs, W	Private	
Speed, Belinda		
Speed, Kenneth		
Thomas, Daniël	Private	
Trussell, Clement	News Officer	Radio Atlantis
Longden-Thurgood, M		
Van Schalkwyk, J	Private	
Van Rooyen, Natio		Joyce's Dairy Farms
Watney, Tertius		
Wetter, Chris	Private	
Wilkinson, David and Donree	Private	
Williamson, Raymond and Mrs	Private	
Wilson, B.S.J	Private	
Wilson, Tug and S	Koeberg PSIF	
Griffen, Herschell		Saxon Sea SS
Mr Marthinissen	Principal	Atlantis SS
Langenhoven, Henry		Robinvale HS
Ms. Figaro/Mr. Julius		Proteus SS
Moyo, Faith		Bloubergrant HS
Siyo, Phinda		Inkwenkwezi SS
Mr Gouws		Schoonspruit SS
Mr Gibson		Naphakade SS
Goliath, Mark		Wesbank SS
Boltler, Patrick		CBC St. Johns
LeFeuvre, Stephen		Parklands College
Minky		Elkanah House High

Myer, Kevin		Tableview High
Mr Ngwane		Sinenjongo HS
Classen, Sandy		Milnerton High
Bassa, Bibi		UCT Debating/Rotery Club
Mr Visser	Principial	Van Riebeeck Primary School
Loubser, Rina		ACVV
Ms Rodgers	Campus Manager	West Coast FET College
Lee, Nick	Local Resident	
Fig, Dr David		
Blom, Ben	Business Development Manager	NECSA
Oliver, Jonathan	Technical Director	TUV NORD Southern Africa (Pty) Ltd.
Fritz-Whyte, Amanda		
Dreyer, Oloff	COO	Melkbosstrand Private School
IOSIPHAKIS, John	Engineer	Instrumentation Projects
Meyrick, Mike	Local resident	
Stuurman, Sydney	Chairperson	
van der Riet, Ryno		
Bamford, Helen	Staff Writer	Cape Argus
Arbuckle, Graham	Private	
Jones, Ryan	Private	
Jones, A	Private	
Neethling, A.M	Private	

Appendix D: Advertisements placed during Pre-Application Phase

011	Consecrations
012	Deaths
801 - 845	SERVICE GUIDE
780 - 782	AUCTIONS
700 - 717	

FOURIE



Edward Fourie

BEA

10/10/2015

01/04/1949 -

Private Cremation

No flowers. Donations to S.P.C.A.

Passed away peacefully.

ROSSITER

10/10/2015

01/04/1949 -

Private Cremation

No flowers. Donations to S.P.C.A.

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DR. ISAAC WOLFSOHN

10/10/2015

01/04/1949 -

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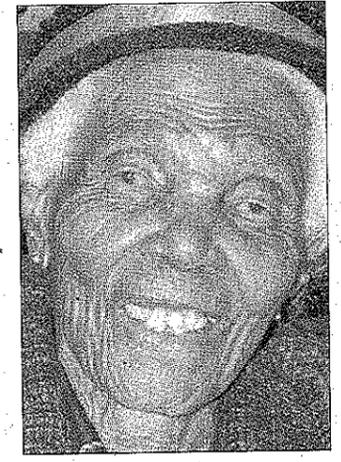
PRASA CREC

INVITATION TO TENDER

Corporate Real Estate Solutions

CAPE TIMES WEDNESDAY, OCTOBER 14, 2015

Lifetime of service wins Ethel Leisa, 101, first Tutu Heroes award



ETHEL LEISA

Staff Writer

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The ceremony will take place in Cape Town today, which coincides with Leah Tutu's 82nd birthday, and will honour Leisa for her voluntary work, providing extraordinary service and improving the community at large.

Leisa was born in Sekhukhune in Limpopo and trained as a nurse at Crown Mines in Joburg.

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"Your daily work was not limited to your profession as a nurse, but you expanded your efforts in serving your church by assisting the rectors. If not cleaning the church yourself, you were co-ordinating others in doing so. From wiping the floors to washing the linen, a humble, outstanding woman.

You took care of the elders, visiting them regularly and, like Jesus did for His disciples, washed their feet and clipped their toenails," Mpho Tutu said about Leisa.

Leisa was one of the founding members of the African Self Help Crèche in the 1960s.

Leisa's daughter Mpho Mguli said the initiative helped draw up early childhood development training programmes for under-skilled practitioners and owners of home-based crèches.

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Fruit Growers staff hit hard by impasse

Michael Nkhalane

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"This is in vivid contrast to what has been reported in the media as Fawu's position and also does not correspond to what was communicated at the negotiation table. It is extremely difficult to reach an agreement under these circumstances, despite our management's best efforts."

Ntshani said they were disgusted by the manner in which CFG had handled the negotiations.

"We are calling on CFG to return to the negotiating table. These demands are noble and reasonable in the face of hard work."

michael.nkhalane@inl.co.za @siyaks

Brewers' record deal follows 'phenomenal' success stories

From Page 1

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SABMiller employs about 70 000 people in more than 80 countries, while AB InBev impresses with about 155 000 employees.

Don't miss Drive TIMES every Thursday. Only in your CAPE TIMES

srk consulting **Eskom**

STAKEHOLDER ENGAGEMENT PROCESS
Environmental Impact Assessment (EIA) for the Proposed Used Fuel Transient Interim Storage Facility at Koeberg Nuclear Power Station
SRK Project No: 478317

Notice is hereby given of a stakeholder engagement process in terms of the National Environmental Management Act 107 of 1998 and the Environmental Impact Assessment (EIA) Regulations, 2014.

Project description: Eskom proposes to construct a Transient Interim Storage Facility (TISF) for the temporary storage of used nuclear fuel from the reactors for the operational life of Koeberg Nuclear Power Station (KNPS), thereby ensuring the continued operation of KNPS.

Location: the proposed TISF will be constructed on vacant land within the KNPS Owner Controlled Area.

Application for Environmental Authorisation (EA) to undertake the following activities:

- Listing Notice 1: (27) clearance of indigenous vegetation;
- Listing Notice 2: (3) development for nuclear activities; and
- Listing Notice 3: (12) clearance of indigenous vegetation.

In addition to EA, licensing is also required from the National Nuclear Regulator.

Opportunity to participate:
A Background Information Document is available at: Koeberg Public Library; Wesfleur Public Library; Cape Town Public Library; Koeberg Visitors Centre; SRK's office in Rondebosch; and www.srk.co.za (via the 'Library' and 'Public Documents' links).

Stakeholders are invited to submit comments and/or register on the project database. Submissions from stakeholders must include their name, contact details (specifying the preferred method of notification, e.g. e-mail) and an indication of any direct business, financial, personal, or other interest which they have in the application, to the contact person below, by **9 November 2015**. Note that **only registered stakeholders** will be notified of future meetings and opportunities to provide comment on relevant documentation.

A **Public Open Day**, where the project will be discussed, will be held at the Koeberg Visitors Centre from 15:00 until 19:00 on Tuesday, 27 October 2015. Stakeholders are invited to attend the Open Day anytime between the above times, and are requested to **confirm their intention to attend the Open Day with the contact person below**. Proof of identity will be required for access to the KNPS site.

To submit comments, register, or request information, please contact: Jessica du Toit of SRK Consulting at jedutoit@srk.co.za; Postnet Suite #206, Private Bag X18, Rondebosch, 7701; Fax: 021 685 7105; Tel: 021 659 3060.

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Staff Writer

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ETHEL LEISA

'SABC job given to Hlaudi on a whim'

From Page 1 interview process.

"There were no interviews, no shortlisting. The recommendation and appointment had not complied with the SABC's charter. The only conclusion was that the man was more important than the rule of law," argued Katz.

He said Communications Minister Faith Muthambi had acted "on a whim" in seemingly rushing through Motosoeng's appointment.

While Muthambi, in her submission, argued that Motosoeng had achieved "great things at the SABC", there was no mention of the findings against him by the Public Protector, which cite his mismanagement and purging of opponents inside the corporation.

SABC counsel Ngwako Maenetje said Motosoeng's insistence that he clear his name was not a concession to the public protector's report into his appointment. "There will be a disciplinary hearing, at a time to be determined."

Judge Dennis Davis fired back that he could not ignore the finding of the SCA. The hearing continues today. quinton.mtyala@inl.co.za @mtyala

Muthambi made no mention of findings by the public protector

INTERNATIONAL DAY TO HIGHLIGHT WORK, WAGES, HEALTH

Focus is on plight of rural women

Raphael Wolf

INTERNATIONAL Rural Women's Day tomorrow should highlight the difficult work and living conditions of women in rural areas.

This is the view of Sikhula Sonke farmworkers' trade union general secretary Henriette Abrahams.

"I want this day to bring the plight of rural women under the microscope, so that all (farming) stakeholders can get to the table to work on solutions that will ensure decent work and decent lives for our rural women," Abrahams said.

She was referring to the women's grievances about an inadequate national minimum wage for farmworkers, their lack of access to adequate health and education facilities and safety and rehabilitation centres for women and children, as well as the unresolved issue of land ownership for farmworkers.

"We want government and business to take responsibility for providing places of safety for women and children who are affected by violence and abuse (in households and workplaces)," she added.

She complained that rural women had worked for only about four to five months of the year during the harvest season, "and what happens to them (concerning income) for the rest of the year?"

Such women also lacked housing security, as a farmer forced them and their families to vacate his house once the women or their spouses left his employ, sometimes after a lifetime of labour.

Abrahams explained that the R120 minimum wage women earned a day on a farm was inadequate after deductions by a farmer – for rent,



CYCLE OF DEBT: Sara Claasen, a farmworker in Stellenbosch, reflects on the role of rural women.

Picture: ARMAND HOUGH

electricity, transport and other expenses.

"It is a slavery type of situation where you are caught up in a cycle of debt. In addition to that there is also the issue of social protection involving pension, provident or retire-

ment funds, or medical aid. Sara Claasen, 52, has been working on Stellenbosch farms since the age of 19.

"We have been underpaid for a very long time. Government had put in place a minimum wage, but that is not

enough."

She lamented that some farmers sometimes refused to implement relevant legislation, and said International Rural Women's Day should be used to express freedom for the rights of rural women, and for

the government and the world to ensure that women were treated with dignity and respect.

Women on Farms Project programme co-ordinator Carmen Louw said they regularly celebrated International Rural

Women's Day and rural women and their contribution towards food security.

"We also use the time to highlight the challenges that rural women face on a daily basis," added Louw.

raphael.wolf@inl.co.za

City stands firm despite being told it's unconstitutional, fails to fulfil obligations

Carlo Petersen

DESPITE being labelled by two high court judges as acting unconstitutionally and failing in its duty to fulfil its statutory obligation, the City insists it is acting within the law.

The City became the subject of two matters recently, one involving Boycott, Divestment and Sanctions (BDS) South Africa, which took issue with

American singer Pharrell Williams's recent visit to Cape Town.

BDS targets Woolworths for selling Israeli goods and had demanded that Williams end his partnership with the retailer.

A BDS protest was then planned outside Grand West Arena in Goodwood, where Williams performed on September 21.

The City had granted BDS the right to protest, but insisted that only 150 people could gather outside the venue.

BDS took the matter to the Western Cape High Court, requesting that 16 000 people be allowed to protest.

Judge Siraj Desai ruled in BDS's favour, saying the City permit's limitations had encroached on the freedom of assembly.

The second matter, involving the South Road Families Association (SRFA) of Wynberg, relates to a court ruling which again slammed the City for acting unconstitutionally.

SRFA had hauled the City to court after 26 families living in South Road, Wynberg, received termination of lease notices in December last year.

South Road is located along the City's "preferred route" for

a planned MyCiTi bus route which would connect Khayelitsha to Wynberg and cut through the residential area in South Road, leaving the 26 families homeless.

Judge Leslie Weinkove ruled in SRFA's favour on Monday, saying: "The City did not comply with their statutory obligations in terms of the constitution."

"They did not engage the

public in meaningful public participation."

Mayor Patricia de Lille's spokesperson, Zara Nicholson, refuted this yesterday, saying the City was awaiting the written judgments on both matters.

"We believe that we always follow legal and statutory requirements in order to create value for our residents," Nicholson said.

South Road resident Laurie Peregrino said it was clear that the City was avoiding meaningful public participation to steamroll projects.

"We see City councillors constantly getting away with half-truths and erroneous actions. They need to be held accountable for making the people suffer," Peregrino said.

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Michael Nkalane

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srk consulting **Eskom**

STAKEHOLDER ENGAGEMENT PROCESS
Environmental Impact Assessment (EIA) for the Proposed Used Fuel
Transient Interim Storage Facility at Koeberg Nuclear Power Station
SRK Project No: 478317

Notice is hereby given of a stakeholder engagement process in terms of the National Environmental Management Act 107 of 1998 and the Environmental Impact Assessment (EIA) Regulations, 2014.

Project description: Eskom proposes to construct a Transient Interim Storage Facility (TISF) for the temporary storage of used nuclear fuel from the reactors for the operational life of Koeberg Nuclear Power Station (KNPS), thereby ensuring the continued operation of KNPS.

Location: the proposed TISF will be constructed on vacant land within the KNPS Owner Controlled Area.

Application for Environmental Authorisation (EA) to undertake the following activities:

- Listing Notice 1: (27) clearance of indigenous vegetation;
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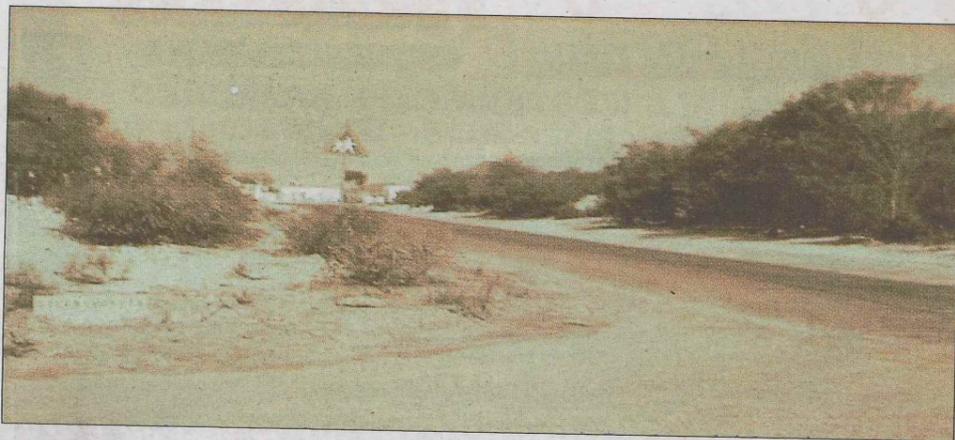
In addition to EA, licensing is also required from the National Nuclear Regulator.

Opportunity to participate:
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A **Public Open Day**, where the project will be discussed, will be held at the Koeberg Visitors Centre from 15:00 until 19:00 on Tuesday, 27 October 2015. Stakeholders are invited to attend the Open Day anytime between the above times, and are requested to **confirm their intention to attend the Open Day with the contact person below**. Proof of identity will be required for access to the KNPS site.

To submit comments, register, or request information, please contact: Jessica du Toit of SRK Consulting at jedutoit@srk.co.za; Postnet Suite #206, Private Bag X18, Rondebosch, 7701; Fax: 021 685 7105; Tel: 021 659 3060.



■ Steenoven Street's intersection with De Grendel Road was no more than sandy lanes and surrounded by bush when Bothasig was founded.

■ Right: The late Tony Fraquet and Claudette Lee are previous ward councillors of Bothasig.



Best wishes as Bothasig celebrates its 50th

SUMMER JACOBS

Bothasig has come a long way from its humble beginnings as a township with only two streets and 30 houses.

Now sporting its own shopping centres, churches, schools, and sporting and recreational facilities, Bothasig proudly celebrates its 50th anniversary as a unique town dearly loved by its residents.

Bothasig was founded on 26 October 1965. Originally named Bosmansdam, the name was changed to Bothasig, on February 4 1966, after the minister of housing at the time, PW Botha.

Ward councillor Helen Carstens says the area has grown fantastically.

"The infrastructure has more than tripled since its humble

beginnings," she said.

"On Saturday October 17, there will be a formal event in the town hall where you can learn something about the history of the community.

"There will also be a community get-together, on a date yet to be confirmed, at the Abe Sher stadium with a ceremonial tree-planting as well as a craft market and sports activities", said Ms Carstens.

Hazel Priest, chairwoman for the Golden Age Seniors' Club, has lived in Bothasig for 22 years, and she remembers when they were still busy building the first houses.

"My cousin and I had both just married and we came to look at the houses. They had built in Tafel Road and were building in D'urban Street, and we fell in

love with the houses.

"My cousin bought one. I went home and told my husband, and he said, 'What about transport?' When we visited family in the area, he said, 'I don't want to live here, it's just bush'," laughed Ms Priest.

She said after their children had moved out of the house, ironically to Bothasig, and then to surrounding areas, she and her husband sold their big house in Observatory and were looking for something smaller.

They ended up buying a small cottage in a close just behind Shoprite centre in Bothasig.

"I've got no complaints. It's very convenient living here. It's fantastic that the area is celebrating its 50th," said Ms Priest.

She said the Golden Age Seniors' Club knitted 50 teddy

bears to mark the occasion. They were given to Grade R pupils at the ACVV crèche, Bothasig's oldest crèche, in a get-together which included a large birthday cake.

With a number of parks dotted around the area today, it's hard to believe that Bothasig was once referred to as a "sandy wasteland".

James Vos, Bothasig's previous ward councillor, grew up here, and he remembers when the neighbourhood's library was run out of a bus and the post office operated from someone's home.

When he became the ward councillor at the tender age of 19, establishing a library was his first mission.

Stopping at the shopping centre in Vryburger Avenue, Mr Vos points out where the first library used to be.

"It was too small and cramped. Books were packed to the ceiling and there was a Portuguese greengrocer next door," Mr Vos recalls fondly.

Continued on facing page

Netcare Blaauwberg Hospital

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Atlantic Breast Centre

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Netcare Blaauwberg Hospital, Training Room

RSVP – Joan Sharpe 021 554 9036 or email joan.sharpe@netcare.co.za

Presenters and Topics:

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Dr Liezl du Toit – Plastic & Reconstructive Surgeon

Dr Wilandi Jacobs – General Surgeon

Mammography: What to expect

Dr Phindi Mnguni – Radiologist

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Reach for Recovery



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Intercare

INTERCARE BUILT A MEDICAL CENTRE TO KEEP YOU OUT OF HOSPITAL

Recently Intercare launched a state of the art medical centre in Century City – a medical centre designed to make it easier and more affordable for you to maintain your health and keep you out of hospital.

According to Intercare co-founder and CEO Dr Hendrik Hanekom, traditional healthcare systems are on their way out. "They're too fragmented," he explains. The new thinking is integrated healthcare where you can walk into one facility and receive multidisciplinary, team-based care.

Intercare is proud to have four well experienced General Practitioners consulting at the centre; Drs Jenny Hanley, Saville Furman, Harold Marcus and Lauren Cloete. Just some of the services offered at the Medical Centre are general medical and nursing services, pathology, physiotherapy and preventative care. Additional services offered include dietitians, biokineticists and a Diabetic Clinic. Not only will you find all these services in one facility, you also have access to them 7 days a week, including on public holidays, and for extended hours during the week.

Intercare is also the largest provider of Discovery Vitality Wellness Centres in the country, which means that you can complete almost the full spectrum of Vitality assessments at the Intercare Medical Centre in Century City.



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Century City now open

Cnr Century Way & Park Lane
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Century City

Tel: 021 879 0000

Operational Hours:

Mon - Fri: 07h30 - 19h00
Sat: 08h00 - 15h00
Sun & PH: 09h00 - 14h00

Intercare
Medical Centre

Go to www.intercare.co.za for more information
Intercare Group

Diary | Dagboek

► **St Luke's Hospice West Coast** will host their annual meeting at their offices in Hof Street, Table View on Wednesday 14 October at 13:00. All are welcome. Call 021 557 8925 or visit www.hospicewestcoast.co.za.

► **Annual meeting** The Community Intervention Centre will hold its annual general meeting on Wednesday 14 October at 18:30 for 19:00 at the Milnerton police station. For more information call the administration office on 021 528 3005 between 08:30 to 13:00.

► **Police forum** The Table View Community Police subforum for sector 3 which covers Table View, Sunridge, West Riding, Flamingo Vlei and Doornbach will meet on Thursday 15 October at Kingsgate Fellowship on the corner of Study and Athens roads at 19:00. For more info call Marietjie Ruster on 083 371 944.

► **Seminar** Coastlands Community Church in Janssens Road will host a prophetic seminar on Saturday 17 October at 09:00 for 09:30. Dawn Hartzenberg will be speaking on "The Anointing". Call Dawn on 083 555 2959 or 021 556 8367 to RSVP.

► **Exhibition** Junior students of the Maré Bruwer Art School are hosting an art exhibition at Koeberg Library, Dufnefontein during October. Call 021 553 3280 for more information.

► **SAARP** Milnerton will host their next social meeting on Wednesday 21 October at Milnerton Library at 09:00. There will be a presentation on Shipwreck Hikes by Tony Pearson. Non-members are welcome. Call Alice Rheeder on 021 551 7370 for more information.

► **A train affair** The Cape Model and Toy Club will be hosting a train fair at the Theo Marais park hall in Koeberg Road, Milnerton on Saturday 24 October from 09:00 to 14:00. Entry is R5 for adults and children under 16 enter free. Call Edward Keown on 082 775 5003 for more information.

► **St Luke's Hospice West Coast** will hold their Time to Remember service at 1 Hof Street, Table View on Saturday 24 October at 14:00. All are welcome to share as they celebrate fond memories of loved ones who may no longer be with us but will never be forgotten. Call 021 557 8925 to RSVP or for more information.

► **Fashion show** Table View Lions Club and Woolworths will host a fashion show at West Riding Primary School, 142 Circle Road, Table View on Saturday, 24 October at 10:00. Tickets are R100 and the proceeds are in aid of a school bus. Tickets are available from Post-Net, Lifestyle Centre, Parklands (opposite Planet Fitness) or call Gisela Weitz 083 556 9818 or email mangela@telkom-sa.net.

Tonie wins lifetime award

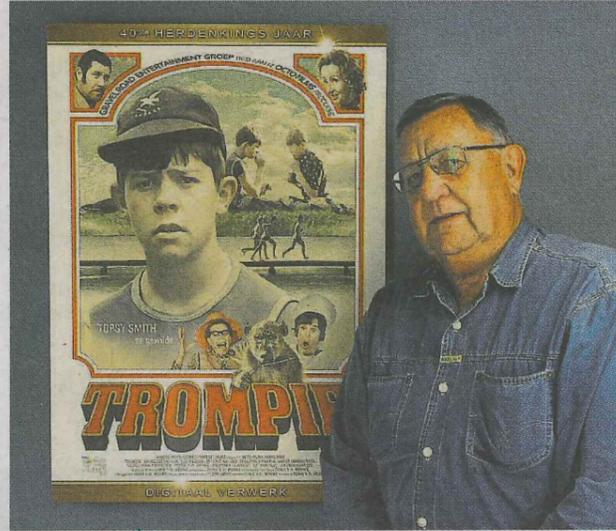
A West Beach resident has received one of the highest honours in the continent's film industry.

Tonie van der Merwe, once dubbed the father of the "black" film industry in South Africa, received the Lifetime Achievement award at the Africa Movie Academy awards in Port Elizabeth.

Van der Merwe created some 400 films in the 1970s and '80s, including *Joe Bullet*, one of the country's first all-black cast films.

His movies launched the careers of many African actors and nurtured a generation of African film technicians and production hands. The majority of his films were distributed by means of an informal rural distribution network, reaching audiences estimated at well over hundreds of thousands.

In 1973 the South African film *Joe Bullet* was banned by the apartheid government after its second screening at the Eyethu cinema in Soweto. Though the ban was later lifted, producers never pursued another release until 2013.



West Beach's Tonie van der Merwe poses next to a poster for the iconic film *Trompie*, one of the many films he directed.

The film premiered at the 2014 Durban International Film Festival. It also featured at the To Save and Project film preservation festival in New York in November last year before being screened at the Carthage international film festival in Tu-

nisia, and the 65th Berlinale film festival in February 2015.

Established in 2005, AMAA aims to facilitate the development and relevance of African film and cinema by providing a rewards and recognition platform for filmmakers on the continent.

African film makers work hard with very little and have, not through serendipity but through sheer audacity, managed to build the third largest film industry in the world, and are poised to take poll position, beating America and India.

"I've had a good inning as a filmmaker and it's probably time to pack away the cameras and lights, but I want to make one last film with an African producer," Van der Merwe said on receiving his award.

This will hopefully happen in the near future.

Forty of Van der Merwe's films are being restored by Gravel Road Studios and are being released under Gravel Road's Retro Afrika Bioscope label.

► Visit www.retroafrika.com for more.

Shelley Point a gem on the West Coast

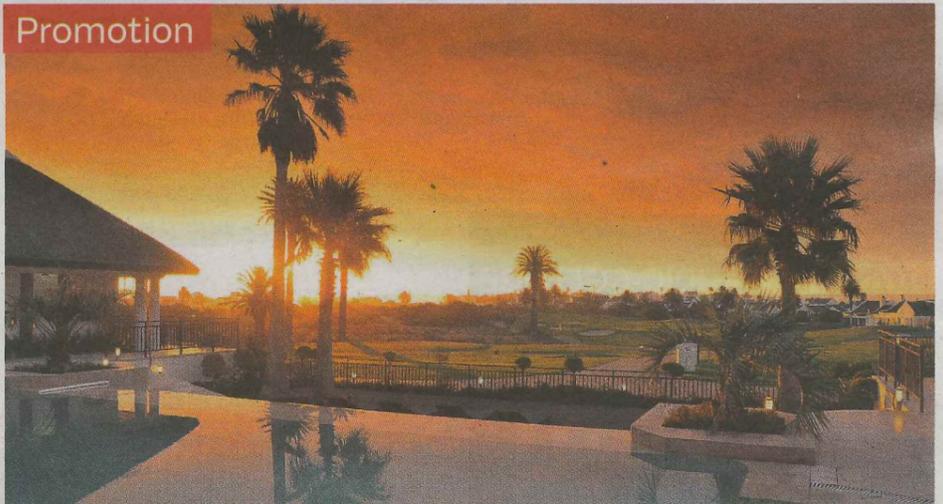
Situated on a private peninsula surrounded by three beautiful beaches, Shelley Point is one of the only places in the country where the sun rises and sets over the sea.

BON Hotel Shelley Point, on the Shelley Point Estate, is one of the finest resorts on the Cape West Coast and just a 90-minute drive from Cape Town.

Suitable for family holidays, corporate getaways, weddings and a variety of events, the resort has plenty to offer: a challenging and officially rated 9-hole golf course, restaurants and cocktail bars, two swimming pools, a spa and wellness centre, tennis courts and bowling greens and, for the family holiday, a kids' club to keep the young ones busy while parents play golf, enjoy a pamper at the spa or just laze about at the pool.

The conference centre has three venues that cater for team building, training, workshops, cocktail functions and wedding receptions – a great place to host a celebration, and the best part is that no one has to drive home.

The restaurants cater for all – from buffet breakfasts to fabulous lunches, not to mention being the perfect setting for a romantic dinner (apparently to date, they have had 28



The Bon Hotel Shelly Point is a real gem on the West Coast.

marriage proposals at the resort).

The famous cocktail bar overlooks the first tee, the ocean and palm trees and there's a good chance you will feel as if you are on an island holiday, enjoying piña colodas or taking a last sip of your mojito.

Keep a lookout on their website and Facebook page for good deals and specials and – a good tip: they often run competitions and giveaways on their Facebook page.

► Visit www.bonhotels.com for more information.

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OPENBARE DEELNAMEPROSES

Omgewingsimpakbepalingsproses (OIB) vir die Voorgestelde Tussentydse Oorgang-bergingfasiliteit vir Gebruikte Brandstof by Koeberg Kernkragentrale
SRK Projek No: 478317

U word hiermee in kennis gestel van die openbare deelnameproses in terme van die Wet op Nasionale Omgewingsbestuur, 1998, en die Omgewingsimpakbepalings (OIB) Regulasies van 2014.

Beskrywing van projek: Eskom beoog om 'n Tussentydse Oorgang-bergingfasiliteit (TOBF) te bou om gebruikte brandstof uit die reaktors, tydelik – vir die duur van die kragentrale se bedryfsleefyd – by die Koeberg Kernkragentrale (KKKS) te berg om die voortgesette bedryf van KKKS te verseker.

Ligging: die voorgestelde TOBF sal op vakante grond binne die KKKS Eienaar Beheerde Gebied gebou word.

Aansoek vir Omgewingsgoedkeuring vir die volgende gelyste aktiwiteite:

- Lystingskennisgewing 1 (27) klaring van inheemse plantegroei;
- Lystingskennisgewing 2 (3) ontwikkeling vir kern aktiwiteite; en
- Lystingskennisgewing 3 (12) klaring van inheemse plantegroei.

Bykomend tot die Omgewingsgoedkeuring, word daar lisensiering van die Nasionale Kernreguleerder ook vereis.

Geleentheid om deel te neem aan die Openbare Deelnameproses:

'n Agtergrondinligtingsdokument is beskikbaar by: Koeberg Openbare Biblioteek; Wesfleur Openbare Biblioteek; Kaapstad Openbare Biblioteek; Koeberg Besoekers Sentrum; die SRK kantoor in Rondebosch; en www.srk.co.za (via die 'Library' en 'Public Documents' skakels).

Belanghebbers is genooi om voorleggings te maak en/of te registreer op die projek databasis. Indien u as 'n belanghebbende registreer, verstrek asseblief u naam, kontakbesonderhede (sluit in die voorkeurmethode vir kennisgewing, bv. e-pos) en 'n aanduiding van enige direkte belang – hetsy sake, finansieel, persoonlik of ander – in die aansoek. Voorleggings moet voor of op 9 November 2015 aan die kontakpersoon hieronder gestuur word. Wees bewus dat slegs geregistreerde belanghebbers in kennis gestel sal word van verdere vergaderings en geleenthede om voorleggings te maak op relevante dokumentasie.

'n **Opedag** om die voorgestelde projek te bespreek sal tussen 15:00 en 19:00 op Dinsdag, 27 Oktober 2015, by die Koeberg Besoekersentrum plaasvind. Belanghebbers is genooi om tussen enige van die bogenoemde tye die Opedag by te woon en u word gevra om u voorneme om die Opedag by te woon aan die kontakpersoon hieronder te bevestig. Bewys van identiteit word vereis vir toegang tot die KKKS gebied.

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ABSA bank held a workshop at Atlantis Beacon Hill Church to introduce local entrepreneurs to the company's Enterprise Development programme. Building business skills is one of the major challenges small business owners face, said Kamil Gihwala, area sales manager. Enterprise development is an integral part of fostering and developing black small, medium and micro enterprises. Business plans, cash flow, licences, permits, registration regulations and the documents required to start and/or register a new business are emphasised in these workshops. PHOTO: MONICA HERNE

Championing renewable energy

Thanks to the Department of Energy's Renewable Energy Independent Power Producers Procurement Programme (REIPPPP), four men also succeeded in bringing added benefits to the industry.

They are young, dynamic and are already enriching the renewable energy industry.

Obakeng Moloabi, Gqi Raoleka, Fumani Mthembu, Boipelo Moloabi and Thapelo Motlogeloa started Pele Green Energy (PGE) in 2009. They have backgrounds in the financial services sector but left the corporate world to start social development enterprises, focusing on youth upliftment. Obakeng Moloabi explains: "Having gone to good schools and been given fantastic opportunities in the corporate sector, we wanted to assist those who may have been very bright, but didn't receive the same opportunities we did."

Their strong social development model unexpectedly introduced them to the energy sector.

They encountered international energy companies that needed to offset carbon footprints and wanted developing projects to help unlock the concept of carbon credits in South Africa and the rest of the continent.

These companies used PGE's social development programmes to help access the carbon credits they needed. Gaining a better understanding of the energy value chain, the PGE team realised their combined expertise could pave their way in entering the industry as energy providers, and then looked for off-grid energy projects in which to invest while still learning the business.

PGE collaborated with companies that were initiating green energy projects with local municipalities through processing landfill gas.

"We were encountering problems of bankability, had a very small customer base to sell power to, and the cost of renewable energy was too prohibitive to sell to intensive energy users such as mines and large factories," says Raoleka.

That all changed in 2011 when the Department of Energy announced the launch of the REIPPPP, giving PGE the opportunity to move into the national green energy sphere. "REIPPPP gave us the opportunity to produce electricity for the national grid," explains Mthembu, "and it was rather fortuitous that all the elements which we had been developing in our business,

such as our social enterprise development programme and our landfill gas projects, fitted perfectly into the REIPPPP's green energy proposition."

Since the inception of the REIPPPP programme, PGE has won bids on seven renewable energy projects. Each PGE renewable energy project also has a local community shareholding, the largest being 10%.

The company is also involved in engineering, procurement, operations and maintenance on three other solar and wind projects.

PGE is one of several companies in the Pele Energy Group. The other subsidiaries within the Group are Pele Natural Energy, with a natural gas-to-power project in Mozambique, and Knowledge Pele - PEG's social development subsidiary - which provides research and development services to more than 10 renewable energy projects in South Africa. Mthembu says Knowledge Pele is filling a gap in the renewable energy sector.

"While the energy sector has strong capabilities in technical and financial aspects, the economic development aspects are not well understood," she says, "especially by our international partners, and this is where Knowledge Pele is making inroads."

"We use our professional expertise and scientifically grounded development programs to ensure the needs of communities that surround our plants are met, and that their aspirations and community assets become visible."

"We're passionate about economic participation and would like to see underprivileged areas becoming productive economic hubs, which they have traditionally not been." She adds that the company is looking to invest in community-based industrial opportunities that absorb a semi-skilled labor force, and provide opportunities for the community to create sustainable businesses around the anchor industry - business that will outlive the life of the plant.

"We feel that industries that plug into the renewable energy sector are a good bet, as it's a growth sector on the continent and therefore offers a long-term supply chain," she comments. Raoleka adds that the Department of Energy's IPP office has created a platform for entities like PGE to embark on the journey of becoming majority shareholders, through the Small Projects REIPPPP, with the aim of creating a strong local IPP industry.

Juwi Renewable Energies (Pty) Ltd is 'n algehele diens projek ontwikkelaar en 'n filiaal van die juwi Groep, een van die wereld se voorloper maatskappye in hernubare energie produksie. Ons visie is om 100% skoon energie te verskaf, versekering van konstante krag verskaffing en onafhanklikheid van wisselvallige energie invoere. Ons fokus is op die wind- en son-energie sektore in Suid-Afrika en het geweldig groei gewys sedert ons begin hier in 2010.

Ons is op soek na jou as 'n

O&M SONAANLEG TOESIGHOUER

Doelwitte

In jou kapasiteit as O&M (Operations and Maintenance) Toesighouer, sal jy verantwoordelik wees vir die monitoring en uitvoering van die onderhoud en bedryf van die aanleg.

Primêre Verantwoordelikhede

- Verseker dat alle onderhoud en bedryf aktiwiteite uitgevoer sal word in ooreenstemming met die maatskappy se doelwitte en mikpunte
- Uitvoering van alle administratiewe vereistes – insluitend SHE (Safety, Health and Environment) verpligtinge
- Samestelling en indiening van verslae
- Monitoring van die aanleg dmv MeeleControl
- Uitvoering van gereelde inspeksies
- Foutsproing van alle PV toerusting
- Alle onderhoud en herstel van PV toerusting
- Uitvoering van alle geskeduleerde dienste
- Skoonmaak en onderhoud van gereedskap en toerusting

Kwalifikasies, Ondervinding en Persoonlike Eienskappe

- N3 Elektriese of hoër kwalifikasie
- Ondervinding in Elektriese en Meganiese onderhoud
- Vorige werksondervinding op sonaanlegte in verkiessik die konstruksie fase sal n aanbeveling wees
- Rekenaar geletterdheid – MS Office
- Goeie administratiewe vaardighede
- Bereidwilligheid om skofte/oortyd te werk indien nodig
- Liggaamlik fiks en gesond om in uiterste weerstoestande te werk
- Engels en Afrikaans taalmagtig wees
- Geldige bestuurs lisensie (Kode 8)

Ander Vereistes en Voorkeure

- Aansoeker moet in besit wees van 'n Suid Afrikaanse Identiteitsdokument
- Aansoeker moet 'n lokale inwoner (binne 'n radius van 50km) van Malmesbury wees – bewys van adres moet beskikbaar wees met die onderhoud
- Voorkeur sal gegee word aan kandidate wat reeds vorige sonaanleg werksondervinding het

Sluitingsdatum vir aansoek

Aanvangsdatum

Stel jy belang?

Om aansoek te doen, stuur asb jou aansoek dmv epos na career@juwi.co.za, insluitend 'n dekbrief, volledige CV en geloofsbriewe (betreffende skool, universiteit, werk, ers) asook jou salaris verwagting. Skryf asseblief die pos beskrywing tittel in die epos Onderwerp lyn.

Ons sien uit na jou energie!!

juwi

Your online presence can make or break your business

MONICA HERNE

Is your online presence a strong deterrent to investors, or a drawback?

At a recent Engen Pitch & Polish workshop, Jodi Lynn Karpes from Greenqueen was hoping to make entrepreneurs understand the importance of portraying themselves in a presentable manner on social network pages.

"Living in the digital age means that as an entrepreneur you have a footprint that extends beyond your business card, CV and business aspirations," she told business people.

"This footprint includes your social media presence on sites such as Facebook, Twitter and LinkedIn."

Karpes knows that potential investors are looking at your online story to gain insight into your character, authenticity and to see the bigger picture.

"Your online profile could make or break an opportunity for you," she added. The Engen Pitch & Polish annual programme, now in its sixth year, is designed to help entrepreneurs polish their pitch to understand their business, know the numbers and gain investor confidence.



Business incubator Raizcorp, sponsor Engen Petroleum Ltd, the QuadPara Association of South Africa, national media partner SAm, as well as local stakeholders False Bay College, NYDA, TSiBA, LaunchLab and INYE Business Consultants would like to see entrepreneurs access funding based on their ability to express their businesses or business ideas effectively.

Abafazi bafumana iinkonzo zocwangciso kufuphi

Ukuze bafumane uncedo lwekliniki yocwangciso nozalo abafazi base Joe Slovo Park bekulindlele ukuba bahlawule iR20 kwizithuthi zikawonke wonke besiya eAlbow Gardens Clinic e Milnerton. Ukunqongophala kwemali bekuye kuthethe ukuba bambi abaphumeleli ukutyelela lekliniki. Kodwa ke okuvuyisayo kukuba kuvulwe ikliniki ekufuphi yi City of Cape Town. Lekliniki yenziwe kwi khonteyna kwaye izisa inkonzo ebaluleke gqitha eluntwini lwesethyini - onkoliso yalo ixhomekeke kuheke wokondla abantwana. "Asinayo imali yokuya e- Albow Gardens Clinic e Milnerton. Ngoku sivuya gqitha kukuvulwa kwalekliniki ecaleni kwezindlu zethu, siya ngenyawo naxesha liphi," utsho uPheliswa Msaseni (31) ngethuba ezise intwanazana yakhe enyanga zili-18 ekliniki ukuze iholwe. UMsaseni njengentlaninge yamanina alapha e Joe Slovo inkoliso yabo ilulutsha ibithatha uhambo olutyabula iR20 besiya e- Albow Gardens Clinic ukuze bafumane iinkonzo ezifana nokucwangcisa nokuvikela izifo ezisulelwa zintlobano zesini. Uthi bavuyiswa kakhulu kukufumana ezinkonzo kufuphi kangaka, kwaye bezifumana mahala.

"Ikufuphi kakhulu kwindawo endihlala kuyo," unqinile u- Olwethu Nhose (25) obequqa eMilnerton esuya kuncunsa inaliti yovalozalo. Bayincome kakhulu indlela ekusetyenzwa ngayo ngaphakathi kule khonteyna ngabongikazi.

"Asilindi thuba lide, kwaye ukuba ugulelwa ngumntwana ukhawuleza afumane unyango," ulebele ngelitsho u-Olwethu.

Noo tata imbala bayavuya kukufika kwalekliniki kuba ngoku abasarholi mali yokukhwela iteksi.

"Kungcono kakhulu kuba ngoku songa imali kwaye wonke umfazana nentombi unethuba lokufumana uncedo olukufuphi," uKhayaletu Dyani oyinkokheli yokuhlala elizwe ngabantwana abahlanu.

Kodwa lo ka Dyani uhlabe ikhwelo kwi Sixeko se Kapa ukubasakhe ikliniki ekumgangatho ophezulu kuba esithi lekhonteyna incinci. Ehlabela mgama ucele nokuba kwandiswe amaxesha okusebenza kwalekhonteyna nanjengoko ivulwa ngoMvulo ukusuka ngo 10am ukuya kuthi ga ngeyesithathu. "Abafazana bayathanda ukusebenzisa lekliniki, bathanda gqitha," uDyani utshilo.

IsiXeko seKapa sivuyile sakuva



NAMADODA ngokwawo akuvuyele ukuvulwa kwekliniki ekwikhonteyna eJoe Slovo Park eMilnerton. Inkokheli yokuhlala uKhayaletu Dyani ofotiweyo uncomelele intatheli yeso Isolabantu ngovuyo. Uthi ukuvulwa kwalekliniki kuluncedo olungathethekiyo eluntwini - abafazana bazakufumana ithuba lokucwangcisa. PHOTO: PETER LUHANGA.

izincomo ezivela eluntwini.

"Kuhle ukuva ukubona uluntu luvuyela inkonzo eziswa siSixeko seKapa. Lento ibangela abasebenzi bafune ukwenza ngakumbi," uSiyabulela Mamkeli onguceba okwikomiti kasodolophu ejongene nezempilo.

Malunga nesicelo sokwakhiwa kwekliniki enkulwana uMamkeli uthe ngelishwa abakwazi ukwenza njalo ngoku ngenxa yebhaji engavumiyo.

"Kwalomhlaba ikhonteyna eme kuwo asingowethu, ntoleyo ibangela kubenzima

ukwenza uphuculo kuyo. Sisakhangelama umhlaba esinokuthi siwuthenge size sibeke le khonteyna kuwo," uMamkeli utshilo.

INTATHELI YETHU

srk consulting

Eskom

INKQUBO YONXULUMANO NOLUNTU OLUCHAPHAZELEKAYO
Uvavanyo Lokuchaphazeleka Kwendalo (EIA) lwesakhiwo esicetywayo sokugcina amafutha asetyenzisiweyo eNyukliya kwiSithishi sombane weNyukliya saseKoeberg

SRK Project No: 478317

Esisi sasiziso ngenkqubo yonxulumano noluntu oluchaphazelekayo, ngokugunyaziswe nguMthetho we107 kaZwelonke Wokuphatha Kwendalo Nokusingqongileyo wonyak ka 1998 (National Environmental Management Act 107 of 1998) kwakunye neMigaqo yonyaka ka 2014 yoVavanyo Lokuchaphazeleka Kwendalo (EIA).

Inkcazelo ngeliphulo: UEsom uceba ukwakha Isakhiwo Sethutyana Sokugcina amafutha asetyenzisiweyo enyukliya aphuma kwi-reactor. Esisi sakhiwo sicetywayo siyakuthi sisetyenziswe ukugcina la malahle side sifikelele ekupheleni kokusebenza kwaso isithishi senyukliya zaseKoeberg. Ukwakhiwa kwesi sakhiwo kuza kuthi kuncede ukuba siqhubekeke sisebenza esi sithishi sombane wenyukliya.

Indawo yesakhiwo: esi sakhiwo sicetywayo siyakuthi sakhiwe kwisiza esingakhawanga esikwaphakathi kumhlaba wesithishi saseKoeberg.

Isicelo seMvume Yezendalo Nokusingqongileyo (Environmental Authorisation - EA) yokuthabatha ezi zicwangciso zilandelayo:

- Isicelo 1: (27) ukususwa kwezityalo zendalo
 - Isicelo 2: (3) ukwenziwa kwemisebenzi enxulumene nenyukliya; kwakunye
 - Isicelo 3: (12) nokususwa kwezityalo zendalo
- Nxalenye nesicelo seEA, imvume izakucelwa naKubalawuli beNyukliya kuZwelonke (NNR).

Ithuba lokuzibandakanya:

UXwebhu Oluqulethe Iinkcukacha luyafumaneka kula mathala eencwadi alandelayo: Ithala lencwadi laseKoeberg, ithala le ncwadi laseWesfleur, ithala le ncwadi laseKapa; ukanti likwa fumaneka nakwezindawo zilandelayo - Koeberg Visitors Centre, kwi ofisi zenkampani yakwaSRK eziseRondebosch, kwakunye nakwi website yakwaSRK ethi www.srk.co.za (uye kwiphepha elithe 'Library' ne 'Public Documents')

Ujuntu oluchaphazelekayo luyacelwa ukuba lufake izimvo zalo okanye lubhalise kuLuhlu LweNkcukacha zeliphulo (project database). Izimvo ezisuka kuluntu oluchaphazelekayo kufuneka ziquke igama lomntu, inkcukacha zokuqhakamshelana nomntu lowo (xela ukuba ukhetha ukwaziswa njani na, umzekelo - email) kwaye uxele ukuba ngaba uneshishini elichaphazelekayo kusini na kweeli phulo, okanye uchaphazeleka wena isiqu sakho, kwaye xela nayiphi na enye indlela ochaphazeleka ngayo kwesi sicelo. Izimvo zoluntu oluchaphazelekayo kufuneka zithunyelwe kuJessica du Toit, inkcukacha zakhe zibhaliswe ngezantsi, kwaye kufuneka zifike kuye ngomhla we 9 kuNovember 2015. Qaphela ukuba ngabantu ababhalisileyo bodwa abayakuthi baziswe ngeentlanganisano ezilandelayo kwakunye namanye amathuba okufaka izimvo.

Imini Evulelwe Umntu Wonke, apho kuzakuthi kuchazwe ngokubanzi ngeliphulo, iyakuthi ibekho ngoLwesibini umhla we27 October 2015, ibanjelwa eKoeberg Visitors Centre ngentsimbi yeSithathu ukuya kweyeSixhenxe malanga. Ujuntu oluchaphazelekayo luyacelwa ukuba luzimase olusuku nangaliphi na ixesha phakathi kwa la achazwe ngentla, kwaye luyacelwa ka nanjalo ukuba lwazise uJessica du Toit ngesicwangciso sokuzimasa olusuku. Nceda uphathe isazisi sakho nje ngoba sizakufunwa phambi kokuba ungeniswe kumasango esikhululo sombane saseKoeberg.

Ukufaka izimvo, ukubhalisa okanye ukucela iinkcukacha ezithe vetshe! Nceda uqhakamshelane no: Jessica du Toit waseSRK Consulting ku - jedutoit@srk.co.za; Postnet Suite #206, Private Bag X18, Rondebosch, 7701; Fax: 021 685 7105; Tel: 021 659 3060.

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Oct 24th - Kraaifontein, Enkululekweni Primary School Hall, Time: 12pm - 3 pm

Age: 18 - 35
Admission fee: R100

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Cell: 078 7920814
email: info@soulshadmusic.com

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Redaksioneel / Editorial

65 DAYS AND COUNTING DOWN...

It's official – the silly season has arrived. You can see some of the signs everywhere. I saw the first advertisement for Christmas on TV, and now the other day I could swear I heard a Boney M song being played somewhere in my neighbourhood. And then it struck me how 2015 will soon be nothing but a distant memory. Scary how time flies, and despite the old adage that time normally flies when you are having fun, 2015 was surely not just fun. In fact, economist is describing 2015 as one of the worst years for the world's economy and that of South Africa.

Om alles te kroon is 2015 ook een van die droogste jare in 'n lank tyd. Wat vir Jan Alleman net een ding gaan beteken – hoër kospryse! Ons rapporteer hierdie maand oor die plaaslike misdaad statistieke en dit lyk ook nie te waffers nie. Ons artikel oor Internasionale dag vir ouer persone op bladsy 4 herinner ons daaraan om dalk 'n bietjie meer tyd te spandeer om diesulkes wat hierdie land help bou het, te waardeer en vir 'n oomlik te dink oor waar ons sou wees sonder ons voorgeslag. Ten spyte van soveel negatiewe moet ons nooit vergeet om ons seëninge te tel nie. Maak 'n punt daarvan om te soek na die goeie, die mooi, die interessante en dit wat werd is om gevier te word.

Daar is net so bietjie meer as sestig dae van 2015 oor, - let's make it count!

Groete tot volgende maand!

Peter Lategan

Another entrepreneurship hub open its doors

PETER LUHANGA

Eskom and the South African Manufacturing Technology Demonstration Centre (SMTDC) unveiled a brand new entrepreneurship incubator in Atlantis at the end of September.

The facility - situated in Tom Henshilwood Street, Atlantis Industria - has been funded by Eskom and the Department of Trade and Industry. The aim is to boost business and successful enterprises. The manufacturing demonstration centre's Chief Executive Officer, Cornelius Scheepers, told IMPACT NEWS that the incubator will provide a one-stop-shop approach for potential entrepreneurs to turn projects into profitable businesses. He said it will cater for promising entrepreneurs all around the mother city. "Our aim is to train 100 entrepreneurs a year and we are targeting individuals and enterprises that are serious about making their businesses successful". The centre will be opened as soon as the city has issued an occupying certificate, which has delayed the opening. Scheepers said the facility will be equipped with the latest manufacturing equipment to assist selected entrepreneurs in making their business a success. He said interested business people and enterprises will have to apply and will be screened in order to select people and enterprises that are likely to succeed in their business. The focus is the manufacturing of renewable energy, but other businesses that fall outside the renewable energy spectrum, will also be assessed to determine what they offer.



PLACE OF OPPORTUNITY: Eskom's Lewis Phidza and Cornelius Scheepers (right) at the unveiling of its entrepreneurship incubator in Atlantis.

He said training will be provided for free of charge, but once business start producing revenue using the resources at the facility, they will start paying in order to sustain the centre. Koeberg Power Station stakeholder management manager, Lewis Phidza, said they provided seed funding for the facility in order to assist entrepreneurs. "Once the entrepreneurs were trained and start manufacturing products, Eskom will consume some of their products. Through our tendering process entrepreneurs can tender on products that Eskom can consume. It's a good opportunity for them and they should grab it with both hands" said Phidza. He said while the target is the entire province, the main identified beneficiaries of the incubator were people from Atlantis, Pella, Mamre, Darling and Dunoon, they should use the centre to their advantage.

Stad waarsku oor bedrog

Die Stad Kaapstad is tans besig om voorvalle te ondersoek waar begunstigdes wat kwalifiseer vir 'n gesubsidieerde behuisingsgeleentheid, na bewering uit hulle eiendom geswendel word.

In 'n onlangse mediaverklaring het die Stad gesê dat 'n persoon wie kwalifiseer in terme van die nasionale kriteria, nie geld moet betaal aan enigiemand om op die behuising databasis geplaas word of om 'n eiendom te ontvang nie. Hierdie koste word deur die Stad gedra. Hulle doen 'n beroep op begunstigdes om verklarings te maak by hul naaste polisiekantoor sodat die saak ondersoek kan word. "Ons kan nie toelaat dat hierdie misdadigers wegkom hiermee nie. Ongelukkig teiken hulle ons mees kwesbare en desperate inwoners, "lui die verklaring. Inwoners kan ook die Stad se Bedrog Hulplyn kontak op 0800 32 31 30. Voorbeelde van behuising swendelary sluit in:

- wettige begunstigdes betaal om op die amptelike Behuising databasis geplaas te word
- wettige begunstigdes betaal om op 'n gesubsidieerde behuising eenheid (RDP huis) of gedienste erf te ontvang
- die 'verkoop' eenhede, huise of gedienste erwe wat aan die stad behoort
- die onwettige 'koop' van HOP-huise

"Ons kan slegs bedrog stop as ons almal saamwerk," het die Stad se Burgemeesterskomiteelid vir menslike nedersettings, Raadslid Benedicta van Minnen aangevoer.

Counseling Psychologist
Voorligting Sielkundige

PR8630453

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Wesfleur Privaatkliniek (MED24)
Wesfleursirkel
Tel: 021 572 5771

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Eskom

STAKEHOLDER ENGAGEMENT PROCESS
Environmental Impact Assessment (EIA) for the Proposed Used Fuel
Transient Interim Storage Facility at Koeberg Nuclear Power Station

SRK Project No: 478317

Notice is hereby given of a stakeholder engagement process in terms of the National Environmental Management Act 107 of 1998 and the Environmental Impact Assessment (EIA) Regulations, 2014.

Project description: Eskom proposes to construct a Transient Interim Storage Facility (TISF) for the temporary storage of used nuclear fuel from the reactors for the operational life of Koeberg Nuclear Power Station (KNPS), thereby ensuring the continued operation of KNPS.

Location: the proposed TISF will be constructed on vacant land within the KNPS Owner Controlled Area.

Application for Environmental Authorisation (EA) to undertake the following activities:

- Listing Notice 1: (27) clearance of indigenous vegetation;
- Listing Notice 2: (3) development for nuclear activities; and
- Listing Notice 3: (12) clearance of indigenous vegetation.

In addition to EA, licensing is also required from the National Nuclear Regulator.

Opportunity to participate: A Background Information Document is available at: Koeberg Public Library; Wesfleur Public Library; Cape Town Public Library; Koeberg Visitors Centre; SRK's office in Rondebosch; and www.srk.co.za (via the 'Library' and 'Public Documents' links). Stakeholders are invited to submit comments and/or register on the project database. Submissions from stakeholders must include their name, contact details (specifying the preferred method of notification, e.g. e-mail) and an indication of any direct business, financial, personal, or other interest which they have in the application, to the contact person below, by 9 November 2015. Note that only registered stakeholders will be notified of future meetings and opportunities to provide comment on relevant documentation.

A Public Open Day, where the project will be discussed, will be held at the Koeberg Visitors Centre from 15:00 until 19:00 on Tuesday, 27 October 2015. Stakeholders are invited to attend the Open Day any time between the above times, and are requested to confirm their intention to attend the Open Day with the contact person below. Proof of identity will be required for access to the KNPS site.

To submit comments, register, or request information, please contact: Jessica du Toit of SRK Consulting at jedutoit@srk.co.za; Postnet Suite #206, Private Bag X18, Rondebosch, 7701; Fax: 021 685 7105; Tel: 021 659 3060.

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Newsflash

Status of the units

Unit 1: 99.40% - 970MW **Risk rating:** green **Sent out:** 930MW

Unit 2: *Outage 221 – Day 58* **Risk rating:** yellow

Unit 9: **Risk rating:** green

Total sent out: 930MW

Seawater temperature: 12.3°C

Duty work controller

Romeo Stigling - tel. 3162

Duty ALARA SRPA

Poen Ellis - tel. 4400

Baby boom

The OCC would like to congratulate **Cameron** and **Jill Fredericks** on the birth of their twin sons (Matthew and Zachary) yesterday, 26 October 2015. Mom and babies are doing well.



WiN Committee – congratulations!

It is with great pleasure that we announce the new WiN Koeberg committee and extend a heartfelt thank you to all the ladies who voted. The candidates were nominated and chosen by the ladies in the KOU and nominations were sent to the NNR. Congratulations to Noloyiso Mtoko, the new WiN Chairperson and the new committee. We wish you every success in taking Women in Nuclear to new heights. The new committee members are:

Koeberg WiN Committee

- Noloyiso Mtoko (Chairperson)
- Naomi Mokoto
- Crystal Robinson
- Kiran Vajja

Megawatt Park WiN Committee

- Boitumelo Hollo (Chairperson and the board representative)
- Nonhlanhla Mokoena
- Sebenzile Magagula
- Mpfeni Mapholi
- Ntsoaki Tlape

Welcome and congratulations!

Darcelle Schouw
Outgoing WiN Chairperson

Who's where?

Tactical Procurement and **Materials Management** will be away from the office from 10:30 until 12:30 tomorrow, 28 October 2015. For any emergencies, please contact Paul Erasmus (Tactical Procurement) at tel. 5267 or Michael Zatu (Materials Management) at tel. 2769.

Heads up

In an effort to encourage **good safety practices**, and to prevent serious injuries and fatalities, a system has been implemented at the OCC that will help everyone working at Koeberg, to raise near misses quickly and effectively during Outage 221. All you have to do is contact the OCC Hotline (tel. 4903), and provide the details. All information received will be sent to OH&S, who will complete the Flash Reports on your behalf.



Hand safety

Importance of wearing gloves

- Your hands are your wage-earners. Hands are hurt more often than any other part of the body. Hand injuries don't have to occur. As talented as your hands are, they can't think, they're your servants, and it is your responsibility to keep them out of trouble.
- Be sure you wear the right kind of gloves for the particular kind of work you are doing.
- When you wear gloves, you're not taking unnecessary chances.
- Wear gloves when you are doing a job that requires it, but not around moving machinery.
- Time spent in preparing your hands for the job, will not only save you trouble, you but will probably save you time in doing the job.



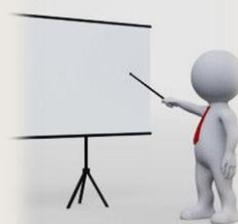
Chose alternative methods to get the job done where there may be a potential for your hands to be trapped in or under anything.

Fundamental: know the hazards of chemicals and comply with the chemical MSDs requirements.

Occupational Hygiene and Safety

Public Open Day

Eskom proposes to construct a Transient Interim Storage Facility (TISF) for the temporary storage of dry casks at Koeberg Nuclear Power Station (KNPS). The purpose for it is to accommodate used nuclear fuel from the reactors for the operational life of the power station. **A Public Open Day will be held at the Koeberg Visitors Centre, today, 27 October 2015 from 15:00 until 19:00.**



Stakeholders are invited to attend the Open Day anytime between the above-mentioned times, and are requested to confirm their intention to attend the Open Day with the contact person below. Proof of identity will be required for access to the Koeberg site. To submit comments, register, or request further information, please contact: Jessica du Toit of SRK Consulting at jedutoit@srk.co.za; Postnet Suite #206, Private Bag X18, Rondebosch, 7701; Fax: 021 685 7105; Tel: 021 659 3060. Also please note the following:

- *The ACP 1 car park area will be reserved for the public for the Public Open Day.*
- *Note that Eskom staff do not need to RSVP, however their Eskom permit is required to gain access to the Koeberg Visitors Centre on the day.*

Appendix E: BID and I&AP Registration Form

BACKGROUND INFORMATION DOCUMENT: Environmental Impact Assessment for the Proposed Used Fuel Transient Interim Storage Facility at Koeberg Nuclear Power Station

SEPTEMBER 2015 SRK PROJECT NUMBER 478317

1 INTRODUCTION

The Koeberg Operating Unit of Eskom (Eskom) proposes to construct a Transient Interim Storage Facility (TISF) for the temporary storage of dry casks at the Koeberg Nuclear Power Station (KNPS) to accommodate used nuclear fuel from the reactors for the operational life of the power station, thereby ensuring the continued operation of KNPS (Figure 1).

SRK Consulting (South Africa) Pty Ltd (SRK) has been appointed by Eskom to undertake the Scoping and Environmental Impact Reporting (S&EIR, also referred to as Environmental Impact Assessment [EIA]) process required in terms of the National Environmental Management Act 107 of 1998, as amended (NEMA), and the EIA Regulations, 2014.

This **Background Information Document** aims to:

- Provide a brief motivation and description of the project;
- Briefly describe the affected environment;
- Describe what is involved in the EIA process; and
- Provide information on how you can participate.

See page *iv* for details on how you can participate in the process.

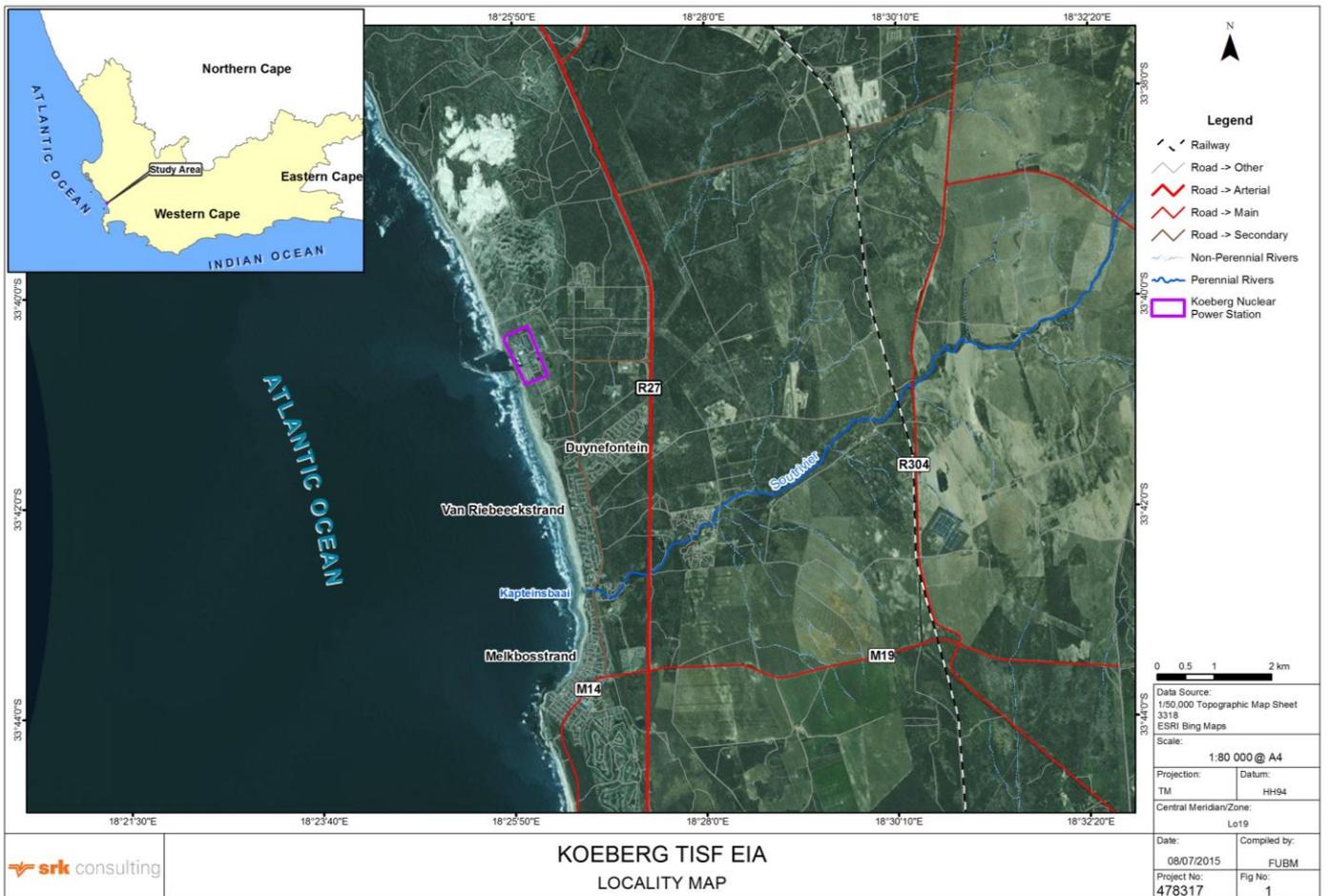



Figure 1: Locality Map

2 PROJECT MOTIVATION AND DESCRIPTION

Used fuel assemblies from the nuclear reactors are stored in spent fuel pools (SFPs) within KNPS. These SFPs are nearing capacity and additional storage capacity is required to accommodate used fuel. KNPS Reactor Unit 1 and Reactor Unit 2 will have filled their SFPs by March 2018 and September 2018, respectively.

Used fuel assemblies are rods of nuclear fuel that have been irradiated in a nuclear reactor to the point where the fuel is no longer useful in sustaining a nuclear reaction. The used fuel assemblies are stored underwater in storage racks in **spent fuel pools**. Water cools the fuel and serves as an effective shield to protect workers in the fuel storage building from radiation (Eskom, 2015).

As the current SFPs are reaching their storage capacity, additional space will be created by moving used fuel from the SFPs into dry storage casks. This strategy forms part of Eskom's Koeberg Spent Fuel Storage Project, which is made up of three phases:

- Phase 1:
 - Phase 1A: Procure seven dry storage metal casks to ensure the KNPS Reactor Units can operate beyond 2018 without reaching SFP capacity by removing some used fuel assemblies. These casks will be stored with four existing metal casks in the on-site Cask Storage Building (CSB).
 - Phase 1B: Procure spent fuel inserts to regain blocked storage cells in the SFPs due to a checker-boarding arrangement.
- Phase 2: Procure approximately 40 additional dry storage casks to allow ongoing operation of KNPS.
- Phase 3: Construct the TISF for the storage of the casks procured in Phase 2.

The TISF will store the used fuel dry storage casks procured during Phase 2 of the Spent Fuel Storage Project.

Dry cask storage is a method of storing used fuel that has already been cooled in the SFP. Casks are typically concrete or steel cylinders that are either welded or bolted closed to provide leak-tight containment of the used fuel. The used fuel assemblies inside are surrounded by inert gas and each cylinder is surrounded by additional steel, concrete, or other material to provide radiation shielding to workers and members of the public (www.wikipedia.org).

This strategy assumes that a national offsite Central Interim Storage Facility (CISF) is unavailable for use by 2025. Due to the uncertainty of the development of the CISF, the TISF may be required up until the end of the expected operational life of KNPS.

*The **Central Interim Storage Facility** is a proposed central storage facility for nuclear used fuel and waste. The establishment of the CISF is the responsibility of the National Radioactive Waste Disposal Institute.*

The TISF will be constructed on vacant land within the KNPS Owner Controlled Area. The TISF is proposed to comprise of a concrete pad covering an area of approximately 12 800m² onto which up to 160 dry storage casks can be placed. The dry storage casks will be either metal or concrete casks. The TISF will be filled with casks in a modular manner. An auxiliary building to house ancillary equipment will be constructed within the TISF operational area. A secure perimeter fence, with controlled access, will surround the TISF. The TISF will meet the requirements of the National Nuclear Regulator (NNR) and will be built and managed according to International Atomic Energy Agency (IAEA) safety standards.

*The **KNPS Owner Controlled Area** is a restricted area surrounding the reactor units to which only authorised personnel have access.*

Construction of the TISF will commence in 2018 and will take approximately 12 months. The construction laydown area will be located within the proposed TISF operational area to reduce the disturbance footprint. Temporary site offices and a parking area for construction vehicles and equipment will be located in this area. The construction haul routes will use the existing KNPS internal road network.

The dry storage casks are proposed to accommodate used fuel assemblies removed from the reactor units and cooled in the SFPs. The cooling period of used fuel in the SFPs depends on the fuel characteristics and the cask design selected. The dry storage system is a passive system which is not reliant on human action or active components to maintain a suitable safety level. Heat generated from used fuel radioactive decay will dissipate through the external surfaces of the dry casks.

Used fuel assemblies will be loaded into casks at the reactor unit fuel buildings and transferred to the TISF in batches. The sequence of loading and transferring one dry storage cask to the TISF will take approximately 10 working days.

The TISF will be decommissioned in accordance with the KNPS decommissioning plan.

3 PROJECT ALTERNATIVES

The EIA Regulations, 2014, require that all S&EIR processes must identify and describe feasible and reasonable alternatives.

Eskom identified six potential sites at Koeberg for the location of the TISF, which were evaluated against various criteria. The site selection process identified two viable site locations for the TISF (refer to Figure 2) - the CSB site, the preferred alternative (Alternative 1), and the Ekhaya site (Alternative 2). Alternative 1 is located adjacent to the CSB on the northern boundary of KNPS and Alternative 2 is located along the southern boundary of KNPS next to the Ekhaya Building.

The No Go alternative will be considered in the EIA in accordance with the requirements of the EIA Regulations, 2014. The No Go alternative entails no change to the *status quo*, in other words the proposed TISF will not be built.

4 THE AFFECTED ENVIRONMENT

Koeberg is located on a sandy coastline of the West Coast, approximately 27 km north of the Cape Town CBD and 1.5 km north of the residential area of Duynfontein (Figure 3). KNPS is situated on Farm Duynfontyn No. 1552 and access to KNPS is via the R27 which runs along the property's eastern boundary.

The topography of the area is relatively flat with an active dunefield extending north of KNPS. A stabilised primary dune inland of KNPS screens much of the KNPS buildings although the two nuclear reactor units are prominent landmarks in the region.

The vegetation of the area consists of low coastal shrub (Cape Dune Strandveld and Atlantis Fynbos) up to 1.5 m high, typical of much of the West Coast. The Koeberg Nature Reserve, a 3000 ha reserve managed by the Koeberg Managing Authority, surrounds KNPS.

The TISF will be located within the KNPS Owner Controlled Area, on a flat area disturbed by previous construction activities when the reactor units were built and by current operational activities on site. There are no surface water features in close proximity to KNPS.



Figure 3: KNPS from Duynfontein residential area



Figure 2: Site Alternatives

5 ENVIRONMENTAL PROCESS

The EIA Regulations, 2014, list certain activities that are considered potentially harmful to the environment and must undergo an EIA and be authorised by the competent authority before they can be undertaken. The construction of the TISF is likely to involve activities listed in Listing Notice 1 and 3 (requiring a Basic Assessment) and Listing Notice 2 (requiring a S&EIR process):

- Listing Notice 1: Listed activity 27;
- Listing Notice 2: Listed activity 3; and
- Listing Notice 3: Listed activity 12.

Before commencing with the project, Eskom is thus required to undertake a S&EIR process and to obtain authorisation in terms of NEMA from the National Department of Environmental Affairs (DEA). An overview of the S&EIR process proposed for this project is shown in Figure 4.

The aims of the S&EIR process are to:

- Notify stakeholders of the proposed development (and EIA process);
- Provide stakeholders with the opportunity to participate effectively in the process and identify relevant issues and concerns;
- Ensure that stakeholders’ issues and concerns are addressed in the assessment and are accurately recorded and reflected in the Scoping and EIA Reports;
- Assess the potential positive and negative environmental impacts associated with the proposed activity; and
- Make recommendations as to how the potential negative impacts can be effectively mitigated and the benefits enhanced.

Consultation with the public and authorities forms a critical part of the S&EIR process and is intended to provide all stakeholders with opportunities to raise issues and concerns that should be addressed in the S&EIR process and to comment on the documentation submitted to DEA.

SRK plans to conduct a thorough consultation process that makes provision for public meetings as well as focus group meetings with directly affected stakeholders (if necessary) throughout the process.

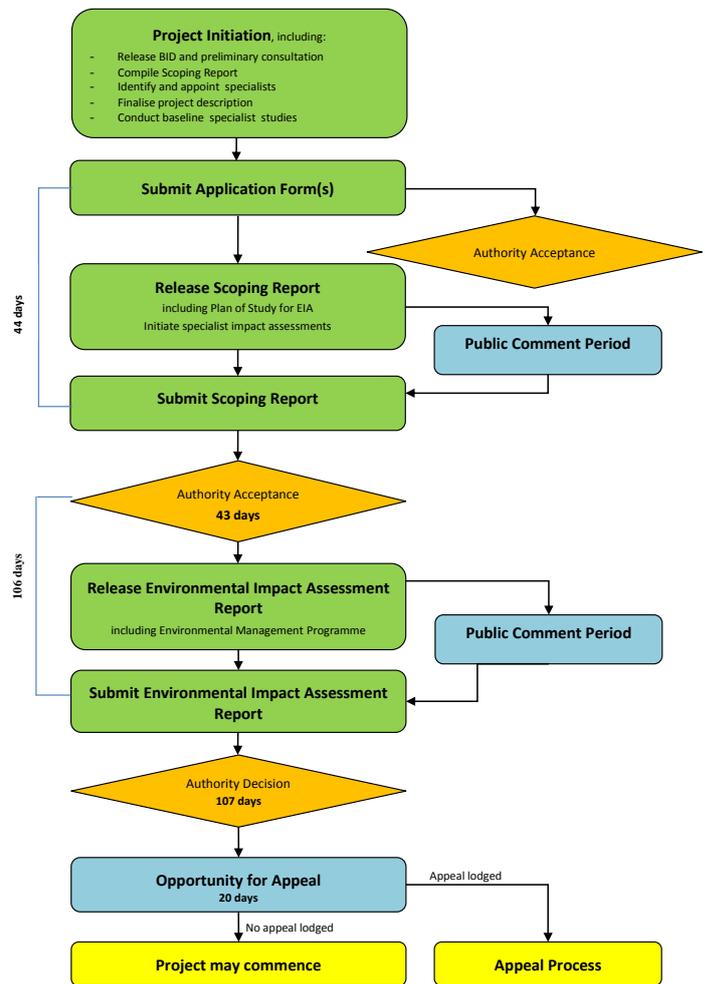


Figure 4: S&EIR Process

In addition to EA, licensing is also required from the NNR.

*The **National Nuclear Regulator** is a public entity established and governed in terms of the National Nuclear Regulator Act 47 of 1999 to provide for the protection of persons, property and the environment against nuclear damage through the establishment of safety standards and regulatory practices (www.nnr.co.za).*

HOW CAN YOU PARTICIPATE IN THE EIA PROCESS?

We value your input into the S&EIR process. If you or your organisation would like to be involved in the S&EIR process, **please submit your contact details for registration as a stakeholder** on our database. Relevant Organs of State will be automatically registered as stakeholders. According to the EIA Regulations, 2014, all other persons **must request in writing to be placed on the register, submit written comments or attend meetings in order to be registered as stakeholders** and be included in future communication for the project.

REGISTER OR PROVIDE YOUR OPINION

Register or send written comment to:

Jessica du Toit
SRK Consulting

Postnet Suite #206, Private Bag X18,
Rondebosch, 7701

Tel: + 27 21 659 3060

Fax: +27 21 685 7105

Email: jedutoit@srk.co.za

Please refer to the SRK project number in your submissions. If registering as a stakeholder, please provide your name, contact details (preferred method of notification, e.g. email), and an indication of any direct business, financial, personal or other interest in the application.

ATTEND A MEETING

SRK provides an opportunity for the public to engage with the team and ask questions about the project at a **Public Open Day**:

Venue: Koeberg Nuclear Power Station:
Visitors Centre

Date: Tuesday, 27 October 2015

Time: 15h00 to 19h00

The public are invited to view the information provided at any time during the advertised times and discuss the project with members of the project team.



AGTERGRONDINLIGTINGSDOKUMENT:

Omgewingsimpakbepaling vir die Voorgestelde Tussentydse Oorgang-bergingfasiliteit vir Gebruikte Brandstof by Koeberg Kernkragentrale

SEPTEMBER 2015

SRK PROJEKNOMMER 478317

1 INLEIDING

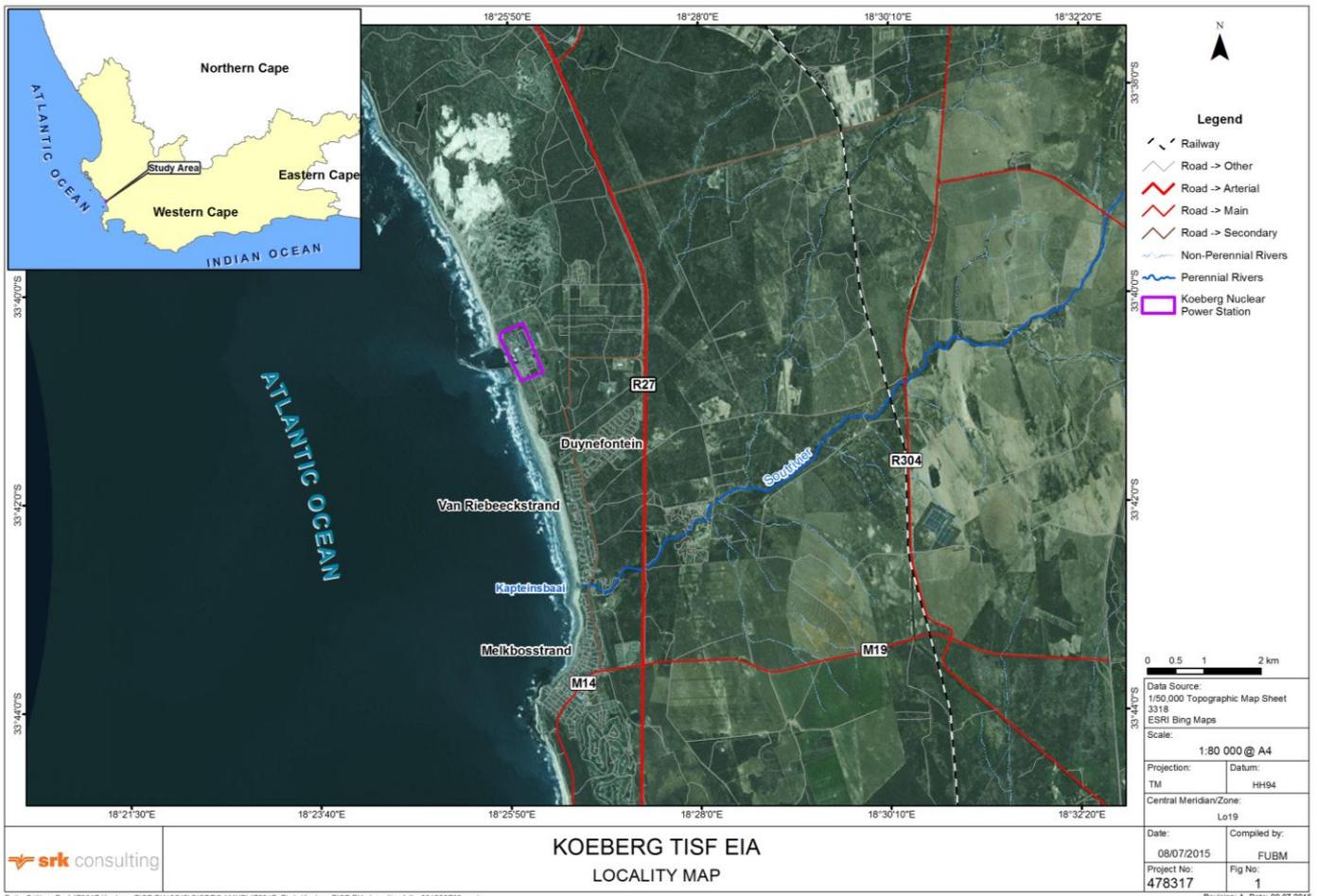
Eskom se Koeberg-bedryfseenheid beoog om 'n Tussentydse Oorgang-bergingfasiliteit (TOBF) te bou om droë vate, wat gebruikte brandstof uit die reaktors bevat, tydelik – vir die duur van die kragentrale se bedryfsleefyd – by die Koeberg Kernkragentrale (KKKS) te berg om die voortgesette bedryf van KKKS te verseker (Figuur 1).

Eskom het SRK Consulting (Suid-Afrika) (Edms) Bpk (SRK) aangestel om die Omgangbepaling- en Omgewingsimpakverslaggewing (OB&OIV – ook die Omgewingsimpakbepalingsproses [OIB] genoem) te doen, wat kragtens die Wet op Nasionale Omgewingsbestuur, 1998 (Wet 107 van 1998) (NEMA), soos gewysig, en die OIB-regulasies van 2014 vereis word.

Hierdie **Agtergrondinligtingsdokument (AID)** poog om:

- 'n Kort motivering en beskrywing van die projek te verskaf;
- Die omgewing wat geraak word, kortliks te beskryf;
- Te beskryf wat die OIB-proses behels; en
- Inligting te verskaf oor hoe u kan deelneem.

As u aan die proses wil deelneem, verwys na bladsy iv vir besonderhede.



Path: G:\New Proj\478317 Koeberg TISF EIA\80\SIGISPROJ\MXD\478317_Fig1_KoebergTISF EIA_Locality_A4_201500708.mxd

Figuur 1: Liggingsplan

2 PROJEK MOTIVERING EN -BESKRYWING

KKKS berg gebruikte brandstofmontasies in gebruikte brandstofbaddens (GBB's). Hierdie GBB's is besig om vol te raak, en addisionele bergingskapasiteit is nodig om gebruikte brandstof te berg. KKKS Reaktoreenheid 1 en Reaktoreenheid 2 se GBB's sal onderskeidelik teen Maart 2018 en September 2018 vol raak.

Gebruiktebrandstofmontasies is kernbrandstofstawe wat in 'n kernreaktor uitgestraal het totdat die brandstof nie meer gebruik kan word om 'n kernreaksie te veroorsaak nie. Die gebruiktebrandstofmontasies word in onderwaterrakke in **gebruiktebrandstofbaddens** geberg. Die water koel die brandstof af en dien as 'n doeltreffende skut om werkers in die brandstofstoor teen bestraling te beskerm (Eskom, 2015).

Aangesien die huidige GBB's besig is om vol te raak, sal bykomende ruimte geskep word deur gebruikte brandstof van die GBB's na droë bergingsvate te skuif. Hierdie strategie vorm deel van Eskom se Gebruikte Brandstof Bergingsprojek vir Koeberg, wat uit drie fases bestaan:

- Fase 1:
 - Fase 1A: Verkry sewe metaalvate vir droë berging om te verseker dat KKKS-reaktoreenhede deur die verwydering van gebruiktebrandstofmontasies ná 2018 aanhou werk sonder om GBB-kapasiteit te bereik. Hierdie vate sal saam met vier bestaande metaalvate in die Vatstoor op die perseel geberg word.
 - Fase 1B: Verkry gebruiktebrandstof-inlegsels om geblokkeerde bergingselle weens skaakbordpatroon in die GBB's te herwin.
- Fase 2: Verkry ongeveer 40 bykomende droë vate om deurlopende werking van KKKS te verseker.
- Fase 3: Bou die TBGB vir die berging van die vate wat in Fase 2 verkry is.

Die TOBF sal die droë bergingsvate wat tydens Fase 2 van die Gebruikte Brandstof Bergingsprojek verkry is, huisves.

Droëvatberging is 'n bergingsmetode om gebruikte brandstof te stoor wat reeds in die GBB afgekoel het. Die vate is gewoonlik beton- of staalsilinders wat toegesweis of toegebout word om lekvrye berging van die gebruikte brandstof te verseker. Die gebruiktebrandstofmontasies word deur onaktiewe gas omring, en elke silinder word deur bykomende staal, beton of ander materiaal bedek om werkers en lede van die publiek teen bestraling te beskut (www.wikipedia.org).

Hierdie strategie veronderstel dat daar nie teen 2025 'n nasionale Sentrale Tussentydse Bergingsfasiliteit (STBF) beskikbaar sal wees nie. Weens onsekerheid oor die ontwikkeling van die STBF, kan die TOBF moontlik vir die duur van KKKS se verwagte bedryfsleef tyd nodig wees.

Die Sentrale Tussentydse Bergingsfasiliteit is 'n voorgestelde sentrale bergingsgerief vir gebruikte kernbrandstof en -afval. Die totstandkoming van die STBF is die verantwoordelikheid van die Nasionale Radioaktiewe Afval Wegdoeningsinstituut.

Die TOBF sal op vakante grond binne die KKKS Eienaar Beheerde Gebied gebou word. Die voorstel is dat die TOBF uit 'n betonblad van ongeveer 12 800m² sal bestaan wat as staanplek vir tot 160 droë bergingsvate kan dien. Die droë bergingsvate sal óf uit metaal óf uit beton bestaan. Die vate sal modulêr op die TOBF geplaas word. 'n Gebou om aanvullende toerusting te huisves sal binne die operasionele gebied van die TOBF gebou word. Die TOBF sal 'n sekerheidsheining met toegangsbeheer hê. Die TOBF sal aan die Nasionale Kernregulator (NKR) se vereistes voldoen, en sal volgens die Internasionale Atoomenergie-agentskap (IAEA) se veiligheidstandaarde gebou en bestuur word.

Die KKKS Eienaar Beheerde Gebied is 'n beheerde gebied rondom die reaktoreenhede waar slegs gemagtigde personeel toegelaat word.

Bouwerk aan die TOBF sal in 2018 begin, en sal ongeveer 12 maande duur. Die bouverseel sal tot die voorgestelde TOBF-bedryfsgebied beperk word om die versteuringsvoetspoor te verklein. Tydelike perseelkantore en 'n parkeergebied vir konstruksie-voertuie sal binne hierdie gebied val. Toegang tot hierdie bouverseel sal deur middel van KKKS se bestaande interne padnetwerk verkry kan word.

Daar word voorgestel dat die reaktoreenhede se gebruikte brandstofmontasies in GBB's afgekoel en in die droë bergingsvate geplaas word. Die gebruikte brandstof se afkoeltydperk in die GBB's hang van die brandstofeienskappe en die gekose vat-ontwerp af. Die droë bergingstelsel is 'n passiewe stelsel wat nie op menslike optrede of aktiewe komponente staatmaak om 'n gepaste veiligheidsvlak te handhaaf nie. Hitte wat deur die radio-aktiewe afbreking van die gebruikte brandstof vrygestel word, sal deur die droë vate se buitekant ontsnap.

Gebruikte brandstofmontasies sal in die reaktoreenheid-brandstofgeboue in vate gelaai en in groepe na die TOBF verskuif word. Die prosedure om een droë bergingsvat te laai en na die TOBF te skuif sal nagenoeg 10 werksdae duur.

Die TOBF sal volgens die KKKS se uitdiensstellingsplan uit diens gestel word.

3 PROJEKALTERNATIEWE

Die OIB-regulasies van 2014 vereis dat alle OB&OIV-prosesse billike, lewensvatbare alternatiewe moet identifiseer.

Eskom het ses potensiële persele vir die TOBF by Koeberg geïdentifiseer en aan verskeie kriteria gemeet. Die proses om 'n perseel aan te wys het twee werkbare liggings vir die TOBF geïdentifiseer (verwys na Figuur 2) – die Vatstoor-perseel, die voorkeuralternatief (Alternatief 1), en die Ekhaya-perseel (Alternatief 2). Alternatief 1 is langs die Vatstoor op die noordelike grens van KKKS, en Alternatief 2 is teen KKKS se suidelike grens, langs die Ekhaya-gebou.

Die 'Geen ontwikkeling'-alternatief sal in die OIB oorweeg word, soos vereis deur die OIB-regulasies van 2014. Die 'Geen ontwikkeling'-alternatief behels dat die status quo behou word, m.a.w. die voorgestelde TOBF sal nie gebou word nie.

4 DIE OMGEWING WAT GERAAK WORD

Koeberg is geleë op 'n sanderige kuslyn van die Weskus, sowat 27 km noord van Kaapstad se SSG en 1.5 km noord van die Duynefontein-woonbuurt (Figuur 3). KKKS staan op plaasnommer Duynefontyn 1552 en toegang geskied via die R27 wat teen die eiendom se oostelike grenslyn loop.

Die gebied se topografie is betreklik plat, met 'n aktiewe duineveld wat noord van KKKS strek. 'n Gestabiliseerde duin aan die landwaartse kant verberg baie van die KKKS-geboue, maar die twee kernreaktooreenhede is prominente landmerke in die omgewing.

Die gebied se plantegroei bestaan uit lae kusstruik (Kaapse Duin Strandveld en Atlantis Fynbos) van tot 1.5 m hoog, wat tipies van 'n groot gedeelte van die Weskus is. KKKS word omring deur die Koeberg Natuurreservaat, 'n 3000 ha reservaat wat deur die Koeberg Bestuursowerheid bestuur word.

Die TOBF sal binne die Eienaar Beheerde Gebied van KKKS geleë wees, 'n plat gebied wat voorheen deur konstruksiebedrywighede versteur is toe die reaktoreenhede opgerig is, asook deur huidige bedryfsaktiwiteite op die perseel. Daar is geen oppervlakwater naby KKKS nie.



Figuur 3: KKKS vanaf die Duynefontein-woonbuurt



Figuur 2: Alternatiewe persele

5 OMGEWINGSPROSES

Die OIB-regulasies van 2014 lys sekere aktiwiteite wat potensieel skadelik vir die omgewing kan wees, en wat 'n OIB noodsaak en deur 'n bevoegde owerheid gemagtig moet word voordat dit kan voortgaan. Die konstruksie van die TOBF sluit waarskynlik aktiwiteite in wat in Kennisgewingslys 1 en 3 (wat 'n Basiese Ewalueringsproses) en Kennisgewingslys 2 (wat 'n OB&OIV-proses vereis) gelys word:

- Kennisgewingslys 1: Gelyste aktiwiteit 27;
- Kennisgewingslys 2: Gelyste aktiwiteit 3; en
- Kennisgewingslys 3: Gelyste aktiwiteit 12.

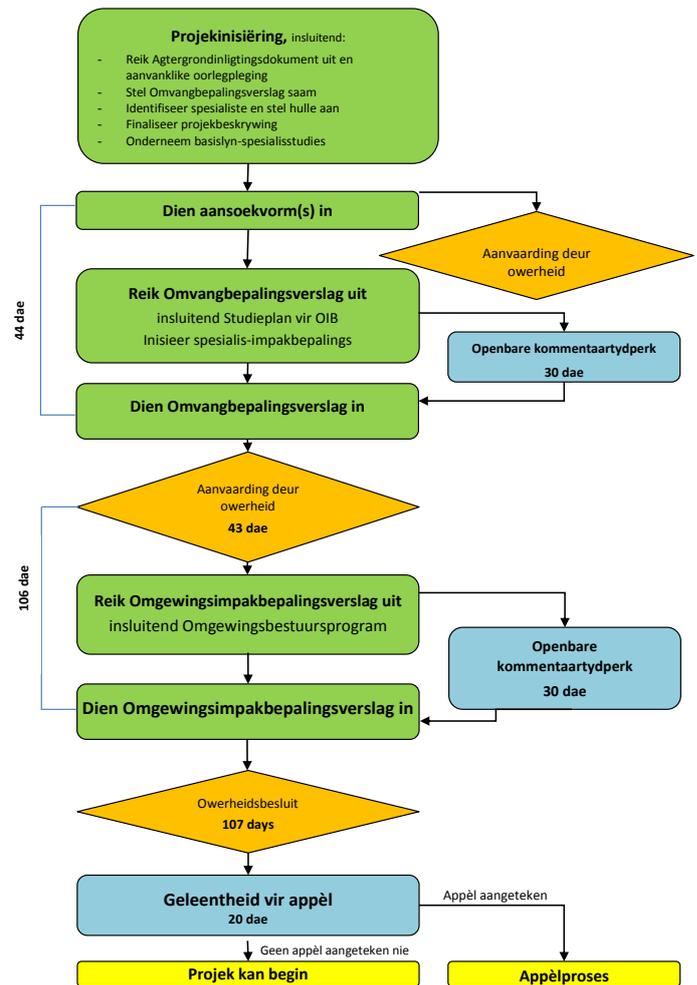
Eskom moet dus 'n OB&OIV-proses aanpak om ingevolge NEMA magtiging by die Nasionale Departement van Omgewingsake (DOS) te kry. 'n Oorsig van die OB&OIV-proses wat vir hierdie projek voorgestel word, verskyn in Figuur 4.

Die doelwitte van die OB&OIV-proses is:

- Om belanghebbers oor die voorgestelde ontwikkeling (en OIB-proses) in te lig;
- Om aan belanghebbers die geleentheid te bied om doeltreffend aan die proses deel te neem en om die betrokke kwessies of kwelpunte te identifiseer;
- Om te verseker dat belanghebbers se kwessies en kwelpunte in die bepaling aangespreek word, en dat dit noukeurig in die Omvangbepaling- en OIB-verslag aangeteken en weerspieël word;
- Om die potensieel positiewe en negatiewe omgewingsuitwerkings wat met die voorgestelde bedrywighede verband hou te bepaal; en
- Om aanbevelings te doen oor hoe potensieel negatiewe uitwerkings doeltreffend versag kan word en voordele uitgebou kan word.

Oorlegpleging met die publiek en owerhede vorm 'n kritieke deel van die OB&OIV-proses en het ten doel om vir alle belanghebbers die geleentheid te bied om kwessies en kwelpunte te opper wat in die OB&OIV-proses aangespreek moet word, en om kommentaar te lewer op die dokumentasie wat aan die DOS voorgelê word.

SRK beplan om 'n deeglike oorlegplegingsproses aan te pak wat deurlopend voorsiening maak vir openbare vergaderings, asook fokusgroepvergaderings met belanghebbers wat direk geraak word (indien nodig).



Figuur 4: OB&OIV-proses

Buiten toestemming van Omgewingsake, is 'n NKR-lisensie ook nodig.

Die **Nasionale Kernreguleerder** is 'n openbare liggaam wat ingevolge die Wet op die Nasionale Kernreguleerder, 1999 (Wet No. 47 van 1999) gestig is en bestuur word om voorsiening te maak vir die beskerming van persone, eiendom en die omgewing teen kernskade deur die uitvaardiging van veiligheidstandaarde en regulatoriese praktyke (www.nnr.co.za).

HOE KAN U AAN DIE OIB-PROSES DEELNEEM?

Ons stel u insette tydens die OB&OIV-proses op prys. Indien u of u organisasie by die OB&OIV-proses betrokke wil wees, **stuur asseblief u kontakbesonderhede vir registrasie as 'n belanghebber** in ons databasis. Die betrokke staatsliggame sal outomaties as belanghebbers geregistreer word. Volgens die OIB-regulasies van 2014 moet alle ander persone **skriftelik aansoek doen om op die register geplaas te word, skriftelik kommentaar te lewer of vergaderings by te woon ten einde as belanghebbers geregistreer te word** en in die toekoms korrespondensie oor die projek te ontvang.

REGISTREER OF LUG U MENING

Registreer by of stuur skriftelike kommentaar aan:

Jessica du Toit

SRK Consulting

Postnet Suite #206, Privaatsak X18,

Rondebosch, 7701

Tel: + 27 21 659 3060

Faks: +27 21 685 7105

E-pos: jedutoit@srk.co.za

Verwys asseblief na die SRK-projeknommer in u voorleggings. Indien u as 'n belanghebber registreer, verstrek asseblief u naam, kontakbesonderhede (voorkeurmetode vir kennisgewing, bv. e-pos) en 'n aanduiding van enige direkte belang – hetsy sake, finansiële, persoonlik of ander – in die aansoek.

WOON 'N VERGADERING BY

SRK nooi die publiek om die span te ontmoet en hulle oor die projek uit te vra by 'n **Openbare Opedag**:

Plek: Koeberg Kernkragsentrale:
Besoekersentrum

Datum: Dinsdag, 27 Oktober 2015

Tyd: 15h00 tot 19h00

Ons nooi die publiek om die inligting wat verskaf word te eniger tyd tydens die geadverteerde tye te besigtig en die projek met die lede van die projekspan te bespreek.



**ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOR THE PROPOSED
USED FUEL TRANSIENT INTERIM STORAGE FACILITY
AT KOEBERG NUCLEAR POWER STATION**

SRK PROJECT NO: 478317

STAKEHOLDER REGISTRATION AND COMMENT FORM

Please complete and submit this form by hand, post, fax or email to:

SRK Consulting

Jessica du Toit

The Administrative Building, Albion Springs, 183 Main Road, Rondebosch, 7700

Postnet Suite #206, Private Bag X18, Rondebosch, 7701

Fax: 021 685 7105 Tel: 021 659 3060,

E-mail: jedutoit@srk.co.za

PLEASE PRINT CLEARLY

TO REGISTER AS A STAKEHOLDER:

Name: _____ **Date:** _____

Organisation (if any): _____

Capacity (if applicable): _____

Postal address: _____

_____ **Postal code:** _____

Telephone number: _____ **Fax number:** _____

E-mail: _____

Preferred communication method (email / fax / post): _____

Please indicate any direct business, financial, personal or other interest that you may have in the application:

Any initial comments or concerns that you may have regarding the proposed project can be indicated below and/or on a separate page:

**OMGEWINGSIMPAKBEPALINGSPROSES (OIB) VIR DIE TUSSENTYDSE
OORGANG-BERGINSGFASILITEIT VIR GEBRUIKTE BRANDSTOF BY
KOEBERG KERNKRAGSENTRALE**

SRK PROJEK NO: 478317

BELANGHEBBENDE REGISTRASIE EN KOMMENTAAR VORM

Voltooi asseblief hierdie form en dien dit asseblief in per pos, faks of e-pos aan:

SRK Consulting

Jessica du Toit

Die Administratiewe Gebou, Albion Springs, 183 Hoofweg, Rondebosch, 7700

Postnet Suite #206, Privaatsak X18, Rondebosch, 7701

Faks: 021 685 7105 Tel: 021 659 3060,

E-pos: jedutoit@srk.co.za

SKRYF ASSEBLIEF DUIDELIK

OM TE REGISTREER AS 'N BELANGHEBBENDE EN GEAFFEKTEERDE PARTY

Naam: _____ **Datum:** _____

Organisasie (indien enige): _____

Kapasiteit (indien van toepassing): _____

Posadres: _____

_____ **Poskode:** _____

Telefoonnommer: _____ **Faksnommer:** _____

E-pos: _____

Verkose metode van kommunikasie (epos / faks / pos): _____

Dui asseblief aan enige besigheid, finansiële, persoonlike of ander belange wat u in die aansoek mag hê:

Enige aanvanklike kommentaar of bekommernisse wat u oor die voorgestelde projek mag hê kan hieronder en / of op 'n aparte bladsy aangeteken word:

Appendix F: Site Notices

STAKEHOLDER ENGAGEMENT PROCESS

Environmental Impact Assessment (EIA) for the Proposed Used Fuel Transient Interim Storage Facility at Koeberg Nuclear Power Station

SRK Project No: 478317

Notice is hereby given of a stakeholder engagement process in terms of the National Environmental Management Act 107 of 1998 and the Environmental Impact Assessment (EIA) Regulations, 2014.

Project description: Eskom proposes to construct a Transient Interim Storage Facility (TISF) for the temporary storage of dry casks at Koeberg Nuclear Power Station (KNPS) to accommodate used nuclear fuel from the reactors for the operational life of the power station.

Location: the proposed TISF will be constructed on vacant land within the KNPS Owner Controlled Area, approximately 30km northwest of Cape Town. Two viable site locations for the TISF have been identified (refer to Figure 1).



Figure 1: the two viable site locations for the the Koeberg TISF

Application for Environmental Authorisation (EA) to undertake the following activities:

- Listing Notice 1: (27) clearance of indigenous vegetation;
- Listing Notice 2: (3) development for nuclear activities; and
- Listing Notice 3: (12) clearance of indigenous vegetation.

In addition to EA, licensing is also required from the National Nuclear Regulator.

Opportunity to participate: a **Background Information Document** is available at: Koeberg Public Library, Duynfontein; Wesfleur Public Library, Atlantis; Cape Town Public Library; Koeberg Visitors Centre; SRK's office in Rondebosch; and www.srk.co.za (via the 'Library' and 'Public Documents' links).

Stakeholders are invited to submit comments and/or register on the project database. Submissions from stakeholders must include their name, contact details (specifying the preferred method of notification, e.g. e-mail), and an indication of any direct business, financial, personal, or other interest which they have in the application, to the contact person below, by **9 November 2015**. Note that only registered stakeholders will be notified of future meetings and opportunities to provide comment on relevant documentation.

A **Public Open Day**, where the project will be discussed, will be held at the Koeberg Visitors Centre from 15:00 until 19:00 on Tuesday, 27 October 2015. Stakeholders are invited to attend the Open Day anytime between the above times, and are requested to **confirm their intention to attend the Open Day with the contact person below**. Proof of ID will be required for access to the KNPS site.

To submit comments, register, or request further information please contact: Jessica du Toit of SRK Consulting at jedutoit@srk.co.za; Postnet Suite #206, Private Bag X18, Rondebosch, 7701; Fax: 021 685 7105; Tel: 021 659 3060.

OPENBARE DEELNAMEPROSES

Omgewingsimpakbepalingsproses (OIB) vir die Voorgestelde Tussentydse Oorgang-bergingsfasiliteit vir Gebruikte Brandstof by Koeberg Kernkragentrale

SRK Projek No: 478317

U word hiermee in kennis gestel van die openbare deelnameproses in terme van die Wet op Nasionale Omgewingsbestuur, 1998, en die Omgewingsimpakbepalings (OIB) Regulasies van 2014:

Beskrywing van Projek: Eskom beoog om 'n Tussentydse Oorgang-bergingsfasiliteit (TOBF) te bou om droë vate, wat gebruikte brandstof uit die reaktors bevat, tydelik – vir die duur van die kragentrale se bedryfsleef tyd – by die Koeberg Kernkragentrale (KKKS) te berg om die voortgesette bedryf van KKKS te verseker.

Ligging: die voorgestelde TOBF sal op vakante grond binne die KKKS Eienaar Beheerde Gebied gebou word, ongeveer 30km noordwes van Kaapstad. Twee werkbare liggings vir die TOBF was geïdentifiseer (verwys na Figuur 1).



Figuur 1: die twee werkbare liggings van die Koeberg TOBF

Aansoek vir Omgewingsgoedkeuring vir die volgende gelyste aktiwiteite:

- Lystingskennisgewing 1 (27) klaring van inheemse plantegroei;
- Lystingskennisgewing 2 (3) ontwikkeling vir kern aktiwiteite; en
- Lystingskennisgewing 3 (12) klaring van inheemse plantegroei.

Bykomend tot die Omgewingsgoedkeuring, word daar lisensiëring van die Nasionale Kernreguleerder ook vereis.

Geleentheid om deel te neem aan die Openbare Deelnameproses: 'n **Agtergrondinligtingsdokument** is beskikbaar by: Koeberg Openbare Biblioteek, Duynefontein; Wesfleur Openbare Biblioteek, Atlantis; Kaapstad Openbare Biblioteek; Koeberg Besoekers Sentrum; die SRK kantoor in Rondebosch; en www.srk.co.za (via die 'Library' en 'Public Documents' skakels).

Belanghebbers is genooi om voorleggings te maak en/of te registreer op die projek databasis. Indien u as 'n belanghebbende registreer, verstrek asseblief u naam, kontakbesonderhede (sluit in die voorkeurmetode vir kennisgewing, bv. e-pos) en 'n aanduiding van enige direkte belang – hetsy sake, finansieel, persoonlik of ander – in die aansoek. Voorleggings moet voor of op **9 November 2015** aan die kontakpersoon hieronder gestuur word. Wees bewus dat slegs geregistreerde belanghebbers in kennis gestel sal word van verdere vergaderings en geleenthede om voorleggings te maak op relevante dokumentasie.

'n **Opedag** om die voorgestelde projek te bespreek sal tussen 15:00 en 19:00 op Dinsdag, 27 Oktober 2015, by die Koeberg Besoekersentrum plaasvind. Belanghebbers is genooi om tussen enige van die bogenoemde tye die Opedag by te woon en u word gevra om **u voorneme om die Opedag by te woon aan die kontakpersoon hieronder te bevestig**. Bewys van ID word vereis vir toegang tot die KKKS gebied.

Om kommentaar te lewer, registreer, of verdere inligting te vra, kontak gerus: Jessica du Toit van SRK Consulting by jedutoit@srk.co.za; Postnet Suite #206, Privaatsak X18, Rondebosch, 7701; Faks: 021 685 7105, Tel: 021 659 3060.

INKQUBO YONXULUMANO NOLUNTU OLUCHAPHAZELEKAYO

Uvavanyo Lokuchaphazeleka Kwendalo (EIA) lwesakhiwo esicitywayo sokugcina amalahle asetyenzisiweyo eNyukliya kwiSitishi sombane weNyukliya saseKoeberg

SRK Project No: 478317

Esi sisaziso ngenkqubo yonxulumano noluntu oluchaphazelekayo, ngokugunyaziswe nguMthetho we107 kaZwelonke Wokuphathwa Kwendalo Nokusingqongileyo wonyaka ka 1998 (National Environmental Management Act 107 of 1998) kwakunye neMigaqo yonyaka ka 2014 yoVavanyo Lokuchaphazeleka Kwendalo (EIA).

Inkcazelo ngeliphulo: UEskom uceba ukwakha Isakhiwo Sethutyana Sokugcina amalahle (TISF) asetyenzisiweyo enyukliya aphuma kwi-reactor. Esi sakhiwo sicitywayo siyakuthi sisetyenziswe ukugcina la malahle side sifikelele ekupheleni kokusebenza kwaso isitishi senyukliya saseKoeberg. Ukwakhiwa kwesi sakhiwo kuza kuthi kuncede ukuba siqhubekeke sisebenza esi sitishi sombane wenyukliya.

Indawo yesakhiwo: esi sakhiwo sicitywayo siyakuthi sakhiwe kwisiza esingakhiwanga esikwaphakathi kumhlaba wesitishi saseKoeberg, kumgama oqikelelwa kumashumi amathathu ekhilomitha kumantla entshona yaseKapa. Iziza ezimbini ziye zachongwa ukwenzela ukwakha le-TISF (jonga kumfanekiso 1).



Umfanekiso 1: Iziza ezimbini ze-Koeberg TISF

Isicelo seMvume Yezendalo Nokusingqongileyo (Environmental Authorization - EA) yokuthabatha ezi zicwangciso zilandelayo:

- Isicelo 1: (27) ukususwa kwezityalo zendalo;
- Isicelo 2: (3) ukwenziwa kwemisebenzi enxulumene nenyukliya; kwakunye
- Isicelo 3: (12) ukususwa kwezityalo zendalo

Nxalenye nesicelo seEA, imvume izakucelwa naKubalawuli beNyukliya kuZwelonke (NNR).

Ithuba lokuzibandakanya: UXwebhu Oluqulethe linkcukacha luyafumaneka kula mathala eencwadi alandelayo – Ithala lencwadi laseKoeberg, ithala le ncwadi laseWesfleur, ithala le ncwadi laseKapa; ukanti likwa fumaneka nakwezindawo zilandelayo – Koeberg Visitors Centre, kwi ofisi zenkampani yakwaSRK eziseRondebosch, kwakunye nakwi website yakwaSRK ethi www.srk.co.za (uye kwiphepha elithe 'Library' ne 'Public Documents').

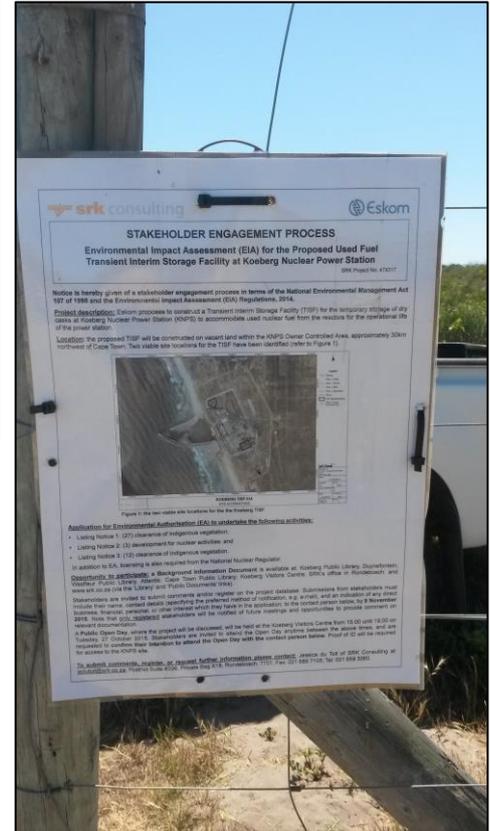
Uluntu oluchaphazelekayo luyacelwa ukuba lufake izimvo zalo okanye lubhalise kuLuhlu LweNkcukacha zeliphulo (project database). Izimvo ezisuka kuluntu oluchaphazelekayo kufuneka ziquke igama lomntu, inkcukacha zokuqhakamshelana nomntu lowo (xela ukuba ukhetha ukwaziswa njani na, umzekelo – email) kwaye uxele ukuba ngaba uneshishini elichaphazelekayo kusini na kweli phulo, okanye uchaphazeleka wena isiqu sakho, kwaye xela nayiphi na enye indlela ochaphazeleka ngayo kwesi sicelo. Izimvo zoluntu oluchaphazelekayo kufuneka zithunyelwe kuJessica du Toit, iinkcukacha zakhe zibhaliwe ngezantsi, kwaye kufuneka zifike kuye ngomhla we **9 kuNovember 2015**. Qaphela ukuba ngabantu ababhalisileyo bodwa abayakuthi baziswe ngeentlanganiso ezilandelayo kwakunye namanye amathuba okufaka izimvo.

Imini **Evulelwe Umntu Wonke**, apho kuzakuthi kuchazwe ngokubanzi ngeliphulo, iyakuthi ibekho ngoLwesibini umhla we27 October 2015, ibanjelwa eKoeberg Visitors Centre ngentsimbi yeSithathu ukuya kweyeSixhenxe malanga. Uluntu oluchaphazelekayo luyacelwa ukuba luzimase olusuku nangaliphi na ixesha phakathi kwa la achazwe ngentla, kwaye luyacelwa ka nanjalo ukuba lwazise uJessica du Toit ngesicwangciso sokuzimasa olusuku. Nceda uphathe isazisi sakho nje ngoba sizakufunwa phambi kokuba ungeniswe kumasango esikhululo sombane saseKoeberg.

Ukufaka izimvo, ukubhalisa okanye ukucela iinkcukacha ezithe vetshe! Nceda uqhakamshelane no: Jessica du Toit waseSRK Consulting ku – jedutoit@srk.co.za; Postnet Suite #206, Private Bag X18, Rondebosch, 7701; Fax: 021 685 7105; Tel: 021 659 3060.



Placement of Site Notices at Otto du Plessis Entrance to KNPS





Placement of Site Notices at R27 Entrance to KNPS



**Appendix G:
Posters and attendance register from Pre-Application Phase
Public Open Day**

Proposed Used Fuel Transient Interim Storage Facility at Koeberg Nuclear Power Station (KNPS)

ENVIRONMENTAL IMPACT ASSESSMENT (EIA):

Pre-Application Stakeholder Engagement Process



Koeberg Nuclear Power Station

PUBLIC OPEN DAY
27 October 2015

WELCOME TO THE EIA PUBLIC OPEN DAY

PURPOSE OF THE OPEN DAY:

- ❖ To introduce the proposed project to the public;
- ❖ To provide a platform for stakeholders to discuss the proposed project; and
- ❖ The independent environmental consultants (SRK) and proponent (Eskom) are at the Open Day to discuss the project and answer your questions.

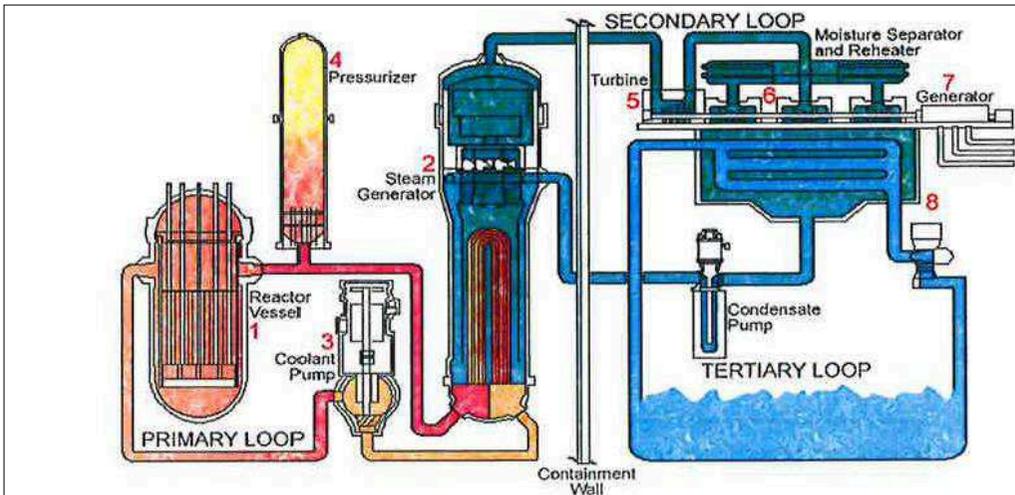
YOU ARE INVITED TO:

- ❖ Fill in the attendance register;
- ❖ Read about the proposed project;
- ❖ Raise and discuss issues and concerns with the project team;
- ❖ Record your views on a comment sheet; and
- ❖ Register as a stakeholder on the project database and be informed of further opportunities to participate in the project.



THE NUCLEAR PROCESS

- ❖ Koeberg has **two nuclear reactor units**, which are essentially heat sources. Heat is generated through the **nuclear fission process**, making use of uranium.
- ❖ Heat is transferred by water to **steam generators** where water from a secondary loop is turned into steam. This steam drives a turbine which is connected to a generator, which uses the **rotational energy** to generate electricity.



The Nuclear Process

Source: Eskom Fact Sheet "Generating Electricity at a Nuclear Power Station", 2015

THE NUCLEAR PROCESS

- ❖ **Nuclear fuel** in the reactor core consists of pellets of enriched uranium dioxide encased in long pencil-thick metal tubes, called fuel rods. These fuel rods are **bundled to form fuel assemblies**.
- ❖ Used fuel is nuclear fuel that has been **used in the fission process** and is no longer useful in sustaining a nuclear reaction.
- ❖ Used fuel assemblies are currently **stored underwater** in storage racks in spent fuel pools (SFPs) at Koeberg. Water **cools the fuel** and serves as a shield from radiation.



Spent Fuel removed from Koeberg Nuclear Reactors

Source: Eskom, 2015

Spent fuel stored in spent fuel pools

Source: Eskom, 2015

PROJECT MOTIVATION

- ❖ The **SFPs storing used fuel** assemblies at Koeberg are **nearing capacity**.
- ❖ To ensure continued plant operation, additional storage capacity is required to accommodate further used fuel generated at KNPS.
- ❖ Eskom proposes to construct a Transient Interim Storage Facility (TISF) for the **temporary storage of used fuel in dry storage casks** at the KNPS.
- ❖ The TISF will be designed to accommodate used nuclear fuel from the reactors for the operational life of the power station, thereby ensuring the continued operation of KNPS.



Horizontal concrete systems

Source: <http://berniesteam.com/wp-content/uploads/2012/12/DSC02774.jpg>



Concrete dry storage casks

Source: Eskom, 2015

PROJECT MOTIVATION

- ❖ The proposed TISF forms part of the **Koeberg Spent Fuel Storage Project** :
 - ❖ **Phase 1A**: Procure 7 dry storage casks to facilitate operation.
 - ❖ **Phase 1B**: Maximise storage capacity in spent fuel pools.
 - ❖ **Phase 2**: Procure approximately 40 additional dry storage casks to allow ongoing operation of KNPS until 2025.
 - ❖ **Phase 3**: Construct the TISF for the storage of the casks procured in Phase 2.
- ❖ The project assumes that a **Central Interim Storage Facility** CISF will be developed for use by 2025.
- ❖ Used fuel assemblies generated beyond 2025 will also be stored in casks at the TISF should the CISF not be available.

AUTHORISATIONS REQUIRED

❖ The proposed Transient Interim Storage Facility (TISF) requires **Environmental Authorisation (EA)** in terms of the National Environmental Management Act 107 of 1998 (NEMA) and the EIA Regulations, 2014, for the following **listed activities**:

❖ Listing Notice 1: (27) clearance of more than 1ha, but less than 20ha, of indigenous vegetation

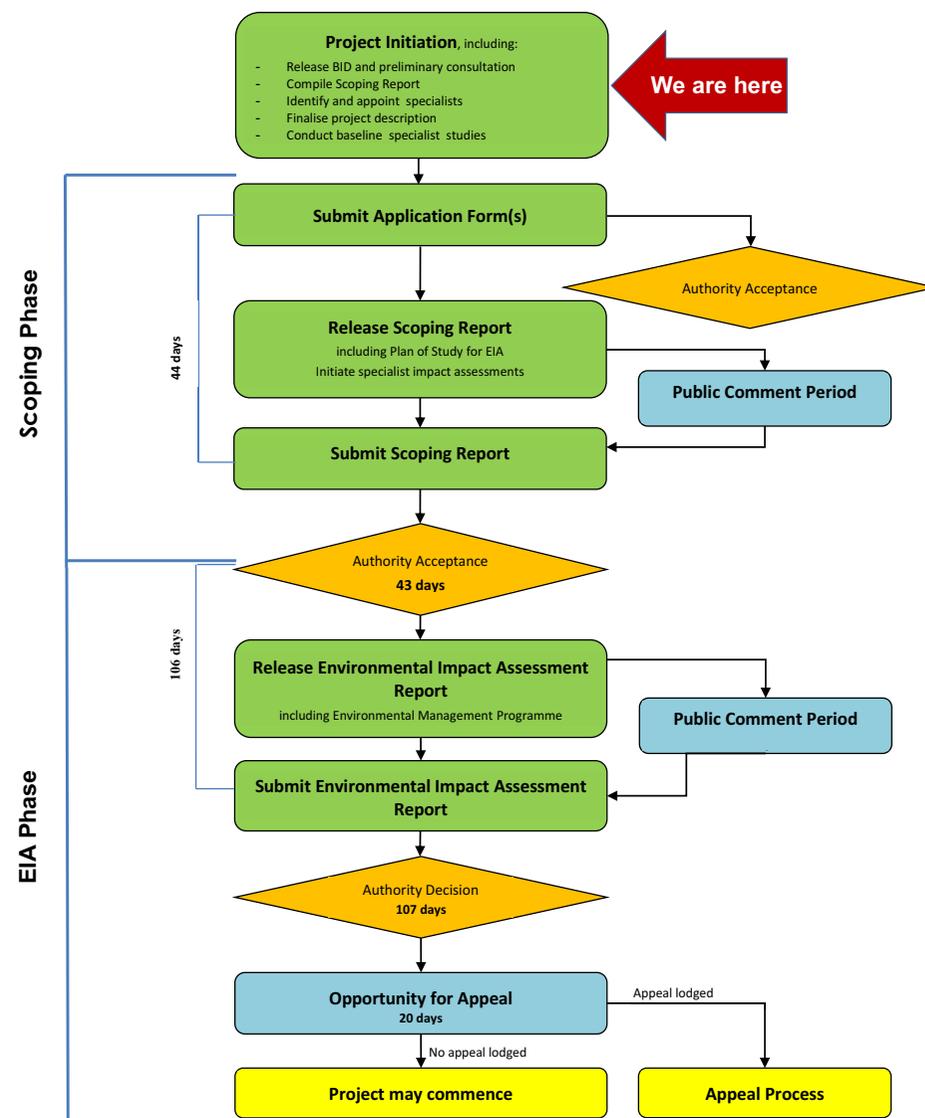
❖ Listing Notice 2: (3) development for nuclear activities (for storage of used fuel)

❖ Listing Notice 3: (12) clearance of 300m² or more of indigenous vegetation within any critically endangered or endangered ecosystem in the Western Cape

❖ The proposed TISF requires licensing from the **National Nuclear Regulator (NNR)** in terms of the National Nuclear Regulator Act 47 of 1999 .



EIA PROCESS



EIA PROCESS

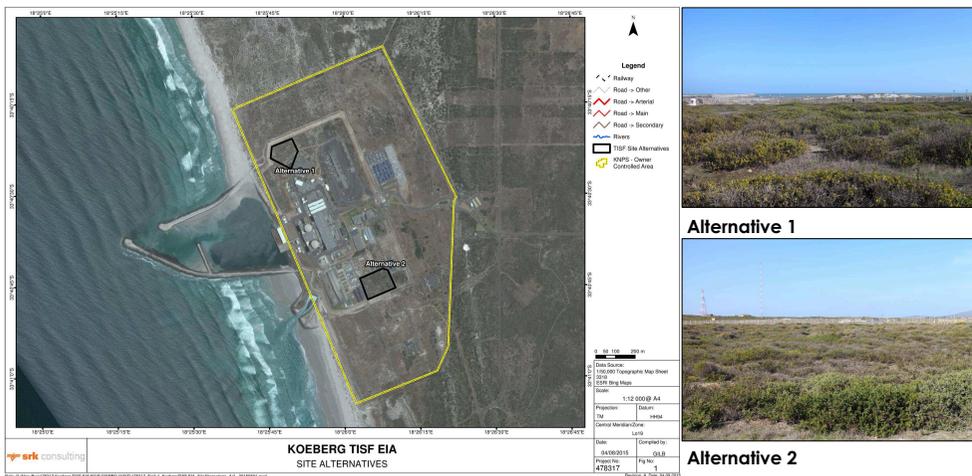
- ❖ A **Background Information Document (BID)** has been released to inform potential **stakeholders** about the proposed project and EIA process.
- ❖ Once stakeholders have registered and raised initial comments, an **Application Form** for Environmental Authorisation (EA) will be submitted to the Department of Environmental Affairs (DEA).
- ❖ The **Scoping Report** and **Plan of Study for EIA** will be released for public comment before submission to DEA.
- ❖ **Specialist studies** will be completed to inform the Environmental Impact Assessment Report.
- ❖ The **EIA Report** and the **Environmental Management Plan** will be released for public comment before submission to DEA.
- ❖ The DEA will then make their decision to grant or refuse **Environmental Authorisation**.
- ❖ Stakeholders will be informed of the DEA's decision and the opportunity to **appeal**.

NATIONAL NUCLEAR REGULATOR

- ❖ The NNR is a public entity established in terms of the National Nuclear Regulator Act 47 of 1999 to provide for the **protection** of persons, property and the environment **against nuclear damage** through the establishment of safety standards and regulatory practices.
- ❖ KNPS is licenced with the NNR but must amend their existing licence to include the TISF.
- ❖ The licence **amendment application** will be **submitted to the NNR** once Environmental Authorisation has been received.
- ❖ This application process will include a separate **stakeholder engagement** process.
- ❖ Eskom must undertake a radiological assessment to determine the potential radiological effects on the public to inform this application.

PROJECT ALTERNATIVES

- ❖ Eskom initially identified **6 potential location alternatives** at Koeberg for the TISF.
- ❖ The feasibility of the location alternatives was evaluated against key criteria, eliminating 4 potential sites.
- ❖ Two viable site locations for the TISF were identified within the existing KNPS Owner Controlled Area (OCA): **Alternative 1** (the preferred alternative) and **Alternative 2**.
- ❖ The **No Go Alternative** will also be considered in accordance with the EIA Regulations. This entails no change to the status quo, i.e. the TISF will not be built.



PROJECT DESCRIPTION

- ❖ The TISF is proposed to comprise of a **concrete pad** covering an area of approximately 12800m² onto which up to 160 dry storage casks can be placed.
- ❖ The TISF will be constructed on **vacant land** within the KNPS Owner Controlled Area and will be surrounded by a perimeter fence with **controlled access**.
- ❖ **Used fuel assemblies** will be loaded into casks at the reactor unit fuel buildings and **transferred to the TISF**.
- ❖ The loading and transferring of one dry storage cask to the TISF will take approximately 10 working days.

TISF comprising a concrete slab onto which dry storage casks can be placed, with a secure perimeter fence

Source: Maine Yankee



AFFECTED ENVIRONMENT

- ❖ The area is **relatively flat** with an active dunefield extending north of KNPS and a dominant ridgeline inland of the KNPS.
- ❖ There are **no** significant sources of **air pollution** or **noise** in the area.
- ❖ There are **no surface water features** in close proximity to KNPS.
- ❖ KNPS occurs on the **Strandveld Aquifer**, an important aquifer supplying water to the surrounding towns (e.g. Atlantis).
- ❖ KNPS is located within the **Cape Flats Dune Strandveld** vegetation type.
- ❖ Vegetation was historically disturbed during the construction of KNPS, but has re-established in the area.

Koeberg Nuclear Power Station with dunefields in the foreground



AFFECTED ENVIRONMENT

- ❖ The location of the site within KNPS largely precludes the existence of fauna, however, a **variety of bird species** are likely to inhabit the sites.
- ❖ A 5km Precautionary Action Planning Zone and 16km Urgent Protective Action Planning Zone have been delineated around KNPS, where development is restricted. The **population density** around KNPS is thus **low**.
- ❖ While the area is rich in heritage resources, the site alternatives are significantly **transformed** by previous construction activities.
- ❖ KNPS is a substantially **modified landscape** with high levels of visual impact caused by the reactor units and associated infrastructure.



View of KNPS from the conservation area with Table Mountain in the background

POTENTIAL ENVIRONMENTAL CONCERNS

- ❖ **Geohydrology:** potential impact on groundwater levels and the need for dewatering may exist, depending on the proposed excavation depth and depth of aquifer.
- ❖ **Terrestrial ecology:** due to the ecological sensitivity of both site alternatives and the presence of sensitive vegetation types, the project may negatively impact threatened and/or protected floral species.
- ❖ **Socio-economic:** potential negative impacts on the surrounding communities associated with noise and dust conditions during construction. Benefits of the TISF include ensuring the continued operation of the KNPS, a significant electricity producer in the Western Cape.



Cape Flats Dune Strandveld vegetation indigenous to the KNPS site, although the site has been disturbed by previous construction activities
Source: www.southsidewheelers.com; wikipedia.org

POTENTIAL ENVIRONMENTAL CONCERNS

- ❖ **Radiation and Human Health:** potential exposure of Eskom employees as well as surrounding communities to radiation due to the handling and storage of used fuel at the TISF and the potential negative impacts on human health.
- ❖ **Heritage:** due to previous disturbance of the site and heritage landscape, the possibility of finding sites of archaeological or palaeontological importance is highly unlikely.
- ❖ **Visual:** the TISF will be located in the KNPS OCA, a substantially modified landscape and is therefore unlikely to have significant negative visual impacts for receptors.



The landscape surrounding KNPS is highly modified by existing infrastructure.
Source: <http://www.vocfm.co.za/koeberg-tender-case-partly-withdrawn/>; www.melkbos.com

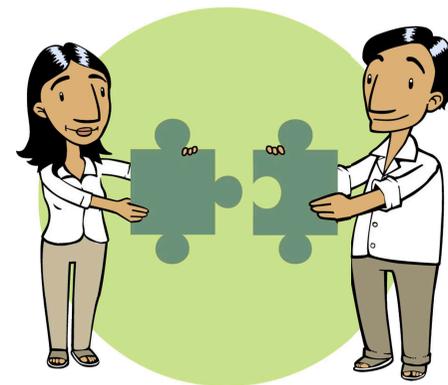
SPECIALIST STUDIES

- ❖ A number of **specialist studies** will be commissioned during the EIA Phase to assess the impacts of the TISF:
 - Geohydrology;
 - Terrestrial Ecology (vegetation & fauna);
 - Socio-economic;
 - Human Health;
 - Heritage; and
 - Visual.
- ❖ Less significant impacts will be assessed by SRK.
- ❖ A **Radiological Assessment** was commissioned by Eskom prior to the EIA process. An independent review of the Radiological Assessment will inform the EIA process.
- ❖ Eskom's existing **Emergency Response Plan** will be reviewed to ensure compliance with legislation and best practice.



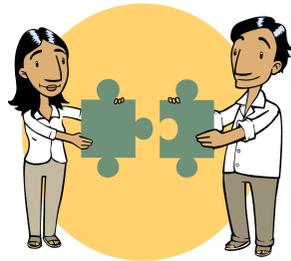
SPECIALIST STUDIES

- ❖ The generic Terms of Reference and principal objectives for each specialist study are to:
 - **Describe** the existing baseline characteristics of the study area and place this in a regional context;
 - **Identify and assess** potential impacts of the project (including the construction and operation phases), using SRK's prescribed impact rating methodology;
 - **Identify and describe** potential cumulative impacts in relation to proposed and existing developments in the surrounding area;
 - **Recommend mitigation** measures to minimise impacts and/or optimise benefits associated with the proposed project; and
 - Recommend and draft a **monitoring** campaign, if applicable.



PLAN OF STUDY FOR THE EIA

- ❖ **Specialists studies** will be done to provide detailed information regarding the affected environment and potential impacts of the project.
- ❖ **Key potential issues and impacts** will be investigated and assessed using standard impact rating methodology.
- ❖ **Mitigation / Optimisation measures** will be identified to prevent / minimise negative impacts and enhance benefits.
- ❖ **Environmental Impact Assessment Report (EIAR)** will be compiled, including the **Environmental Management Programme (EMPr)**.
- ❖ **Public consultation** will be conducted.
- ❖ **Final EIAR and EMPr** will be compiled and submitted to authorities to inform their decision.



PUBLIC PARTICIPATION

- ❖ Stakeholders will be given the opportunity to participate throughout the EIA process.
- ❖ The first opportunity to participate is during the BID release (currently).
- ❖ Stakeholders can provide comment on the BID for the TISF until **9 November 2015**.
- ❖ After the release of the Scoping Report, stakeholders will have **30 days** to provide comment.
- ❖ After the Scoping Report is accepted by the DEA, stakeholders will be given an opportunity to comment on the EIA Report and the EMP (**30 day** commenting period).
- ❖ Stakeholders will be informed of the DEA's final decision on the project.



WAY FORWARD

- ❖ The **Background Information Document** is available for viewing at:



- ❖ Koeberg Public Library, Duynfontein
- ❖ Wesfleur Public Library, Atlantis
- ❖ Cape Town Public Library
- ❖ KNPS Visitors' Centre
- ❖ SRK's Cape Town office; and
- ❖ SRK's website: www.srk.co.za

- ❖ Stakeholders are invited to submit comments and/or register on the project database. Submissions from stakeholders must include their name, contact details (preferred method of notification, e.g. e-mail) and an indication of any direct business, financial, personal or other interest which they have in the application, to the contact person below, by **9 November 2015**.

- ❖ Registered stakeholders will be notified of the availability of the Scoping Report for comment and of future meetings.

- ❖ All written comments can be addressed to **Jessica du Toit** at SRK Consulting:

SRK Consulting
Postnet Suite #206,
Private Bag X18,
Rondebosch 7701

Fax: 021 685 7105
Tel: 021 659 3060
email: jedutoit@srk.co.za



Koeberg Transient Interim Storage Facility - EIA Report
 Public Open Day – 15h00 -19h00, 27 October 2015, Koeberg Nuclear Power Station: Visitors Centre
 ATTENDANCE REGISTER



NAME	CAPACITY / ORGANISATION (if any)	POSTAL ADDRESS	CONTACT DETAILS
Lewis Phidza	ESKOM	PHIDZANLO@ESKOM.CO.ZA	Tel/Cell 072082 6867 Fax 01 E-mail PHIDZANLO@ESKOM.CO.ZA
Ben Blom	Necsa	ben.blom@necsa.co.za	Tel/Cell 082 806 3831 Fax E-mail ben.blom@necsa.co.za
Israel Sekoto	ESKOM	sekotoI@eskom.co.za	Tel/Cell 011 894 1035 Fax 086 605 1915 E-mail sekotoI@eskom.co.za
Luka Potgieter	"	potgieterL@eskom.co.za	Tel/Cell Fax E-mail
Nikki Jonker	"	JONKERN@ESKOM.CO.ZA	Tel/Cell Fax E-mail
LINDLEY PERRYMAN	ESKOM	lindley.perryman@eskom.co.za	Tel/Cell 082 332 9213 Fax E-mail
Lynelle Matthys	CCT: Air Quality Management	246 Voortrekker Road Vasco	Tel/Cell 021 590 5200 Fax E-mail lynelle.matthys@capetown.gov.za
Kudie Kruger	ESKOM / DISASTER MANAGEMENT W/ECKSOS	13 SAMUEL COSE, OUYNEFONTEIN	Tel/Cell Fax E-mail krugerlk@eskom.co.za

Koeberg Transient Interim Storage Facility - EIA Report
 Public Open Day – 15h00 -19h00, 27 October 2015, Koeberg Nuclear Power Station: Visitors Centre
 ATTENDANCE REGISTER



NAME	CAPACITY / ORGANISATION (if any)	POSTAL ADDRESS	CONTACT DETAILS
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Koeberg Transient Interim Storage Facility - EIA Report
 Public Open Day – 15h00 -19h00, 27 October 2015, Koeberg Nuclear Power Station: Visitors Centre
 ATTENDANCE REGISTER



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Appendix H: Notes from Pre-Application Phase Focus Group Meetings

Environmental Impact Assessment for Proposed Transient Interim Storage Facility at Koeberg Power Station

Meeting Notes: Pre-Application Meeting with the DEA and the NNR

Held: Environment House, Pretoria on 20th November 2015, 09:00 – 10:00

Attendees: Michelle Herbert	MH	Eskom
Deon Jeanes	DJ	Eskom
Randall Lavelot	RL	Eskom
John Geeringh	JG	Eskom
Henriette van Graan	HvG	NNR: ERP
Peter Mkhabela	PM	NNR
Lerato Mokoena	LM	DEA: SID
Wayne Hector	WH	DEA: SID
Milicent Solomons	MS	DEA: SID
Fiona Evans	FE	SRK Consulting
Sharon Jones	SJ	SRK Consulting

1 Welcome and Introductions

- 1.1 Sharon Jones (SJ) welcomed and thanked everybody for making the time to attend the meeting. All attendees briefly introduced themselves.

2 Purpose of the Meeting

- 2.1 SJ stated that the formal Environmental Impact Assessment (EIA) process has not yet commenced and the project is in pre-application phase. The purpose of the meeting is to present the project to the Department of Environmental Affairs (DEA) and the National Nuclear Regulator (NNR) as the two decision-making authorities.
- 2.2 Eskom and SRK would also like to obtain clarity about the interaction required between the two Departments and integration of the EIA process and the NNR application process. This also includes how radiological issues should be dealt with in the two respective processes and who will take decisions regarding these aspects.

3 Project Background and Description

- 3.1 Randall Lavelot (RL) provided a project description and an overview of the motivation for the project i.e. the fact that the spent fuel pools (SFP) at Koeberg are reaching capacity (see attached slides). Currently four dry storage casks (metal) are stored in the cask storage building (CSB). Due to the SFP reaching their capacity, it is proposed to package the used fuel in the dry storage casks and transfer it to the proposed onsite Transient Interim Storage Facility (TISF). It is planned

that the dry storage casks will then be transported to a Centralised Interim Storage Facility (CISF), once this has been established. The CISF has not yet been established although it is anticipated that one may be developed by 2025.

- 3.2 RL stated that there are currently two site alternatives for the TISF; both are on vacant land within the Owner Controlled Area (OCA) of the Koeberg Nuclear Power Station (KNPS). Alternative 1 is the preferred option and it is situated adjacent to the CSB building (and low level waste building). Haul roads will follow existing internal roads on site; however the haul route to Alternative 1 will require lengthening of the existing road by approximately 100m to the site Alternative 1 entrance).
- 3.3 RL stated that the TISF will be a concrete pad of 12 800m² in area and will be able to accommodate up to 160 dry storage casks. The TISF will be filled with casks in a modular manner. Eskom is currently planning to place 40 casks until 2025. The TISF will also have an auxiliary building to house auxiliary equipment within the TISF operational area. Secured perimeter fence, with controlled access, will surround the TISF.
- 3.4 The TISF will meet the requirements of the National Nuclear Regulator (NNR) and it will be built and managed according to International Atomic Energy Agency (IAEA) safety standards. Eskom is considering either metal or concrete casks, although as part of the "localisation" initiative, concrete casks may be preferred as they could be manufactured locally.
- 3.5 RL noted that it is proposed to commence the construction of the TISF in 2018 can take up to 12 months to construct. The construction laydown area will be within the operational footprint of the TISF. Hence there will be no additional disturbance footprint due to construction activities. RL stressed that unless construction of the TISF starts by 2018, there is a possibility of Koeberg shutting operations.
- 3.6 Milicent Solomons (MS) noted that there needs to be a comparative assessment between the two alternatives in the EIA and that the haul road would need to be included in that. SJ confirmed that this will be done.
- 3.7 Michelle Herbert (MH) pointed out that the existing "haul roads" indicated on the slides are existing tarred surfaces and the integrity of the haul routes will be investigated to ensure they are suitable. The haul route to Alternative 1 will require an extension of approximately 100m in length.

4 EIA Process

4.1 Authorisation Requirements

- SJ identified the listed activities requiring Environmental Authorisation in terms of the EIA Regulations, 2014, noting that a Scoping and EIA process would be followed.
- Authorisations may also be required in terms of the National Heritage Resources Act (associated with changing the character of a site exceeding 5 000m³ in size) as well as the National Water Act (if dewatering is required during excavation). No application is required in terms of the National Environmental Management: Waste Act, as radioactive waste is regulated by the National Nuclear Regulatory Act and Nuclear Energy Act.

4.2 Status of EIA Process

- SJ provided an overview of the EIA process, indicating that the project is currently in the Project Initiation (i.e. pre-application) phase. An initial round of public consultation had taken place to make stakeholders aware of the project and identify stakeholder issues and concerns to inform the EIA process.
- It is anticipated that the application will be submitted to DEA in February 2016, and the final EIA around August/September 2016.

4.3 Anticipated Concerns/Potential Impacts

- SJ listed the potential impacts identified by the EIA team as well as initial comments by stakeholders (see attached slides).

4.4 Proposed Specialist Studies

- SJ noted the specialist studies required for the EIA as well as the companies undertaking each of the studies (see attached slides).

4.5 Stakeholder Engagement Process

- SJ provided an overview of the public consultation process undertaken during the Project Initiation Phase, which included the release of a Background Information Document, site notices and advertisements in six different newspapers in three languages. A Public Open Day was also held at the Koeberg Visitors' Centre and a focus group meeting is to be held with the commenting authorities such as the City of Cape Town and the provincial departments in January 2016.
- SJ also provided an overview of the anticipated public consultation during the Scoping and Impact Assessment phases, noting that this would comply with the legislative requirements.

5 NNR Process

- MS noted that it was important to determine how the NNR process fits in with the EIA process, and when input into the EIA process is to be provided by the NNR.
- Deon Jeannes (DJ) provided background on what is already in place in terms of licences from the NNR and stated that Eskom has begun communicating with the NNR regarding the licencing of the TISF. DJ stated that Eskom has previously successfully licenced the four casks in the CSB with the NNR. Licencing with the NNR requires high levels of detail. Studies in this level of detail can only be undertaken after a contract has been placed with a vendor after the project has received environmental authorisation.
- DJ pointed out that Eskom has conducted an internal risk assessment of a generic type of cask and has sent it to SRK for review and inclusion into the EIA in terms of the safety aspects.
- DJ described how the casks work and that they are secure and inherently safe. DJ added that there is no risk of liquid release as the casks are vacuumed and sealed. The biggest challenge is public concern surrounding the storage of nuclear waste. DJ confirmed that the NNR process will follow its own public consultation process as part of the licencing process.

5.2 Process Requirements

- DJ mentioned the radiological aspects of the project and said that it is uncertain whether the DEA will require the NNR as a competent authority to comment on any radiological information that is provided in the EIA document. The EIA will include a description of the NNR licencing process and the assessment of radiological safety will be left to the NNR licencing process.
- MS stated that the DEA has recently engaged with the NNR and a relationship has been established between the two Departments to deal with applications of this nature. MS also mentioned there is an existing task team established for the Nuclear 1 EIA and the same forum will be utilised for this project. It was agreed that comments would need to be obtained from the NNR during the EIA process, specifically with respect to radiological issues. Although these would be authorised separately through the NNR process, they would also need to be taken into account in the EIA process.
- MS noted that if Eskom has addressed stakeholders' or NNR's comments in the EIA process, this does not mean that Eskom has fulfilled the NNR's requirements for their application. Although the EIA process will require less detailed information regarding radiological aspects, the NNR application will need to be more detailed. MS also cautioned the NNR that they should not expect to see the level of detail required for the NNR application in the EIA. It is not possible to address all

of the NNR requirements in the EIA. MH raised the concern that the EIA might be unnecessarily loaded by addressing all technical details required by the EIA process.

- John Geeringh (JG) asked if the EIA is a prerequisite for authorisation from the NNR. It was confirmed that if the Environmental Authorisation is issued it will form part of, or inform, the NNR process. Radiological issues raised during the public consultation process for the EIA will be addressed in the EIA process but the formal NNR licencing process will start later.
- MH asked if the NNR will send their comments directly to DEA and if this will be facilitated by the DEA or if comments would be sent directly to SRK. MS replied that the 2014 EIA Regulations require that the comments from other authorities (organs of state) be facilitated by the Environmental Assessment Practitioner (EAP i.e. SRK). The DEA will however still communicate with the NNR during the process but comments should be submitted directly to SRK as part of the EIA process. DEA will assist if there are delays from other department in terms of the cooperative governance agreement.
- SJ noted that if the NNR is a key commenting authority in the EIA process, as for any other commenting authorities, the EIA Regulations require comments to be submitted within the stipulated 30 day comment period. Peter Mkhabela (PM) understood and agreed with this. It was agreed that where possible the NNR would be notified ahead of time when documents are due to be released for comment. If required, Eskom and SRK would also meet with the NNR to present and discuss the findings of the relevant reports with them to facilitate comments. Allowance has been made for focus group meetings of this nature.
- PM enquired about cumulative impacts and SJ confirmed that, during the Scoping and EIA process, information regarding other projects in the area will be considered and presented. MH confirmed that this would be discussed later on in the meeting.
- DJ pointed out that the NNR has authorised casks in the past and the casks already meet the standards set by the NNR. DJ stated that there are two possible licencing options that could potentially be required by the NNR, either a new licence or an amendment to the existing licence.
- PM requested the reference number (K20249.1N) of the NNR letter referencing Koeberg Spent Fuel Strategy and licensing of the TISF, which was provided (see attached slides).

6 General

6.1 Cumulative Impacts

- MH presented all current and potential projects (i.e. environmental authorisation applications) located at or around KNPS, noting that the potential cumulative impacts might need to be considered in the TISF EIA process. Projects include:
 - Nuclear 1 EIA (in process);
 - Weskusfleur Substation EIA¹ (in process);
 - Basic Assessment (BA) for a new pollution testing station (proposed to start in 2016);
 - BA for a water storage tank and alternative (proposed to start in 2016);
 - Approved Ankerlig 132 kV powerline;
 - BA for the car park (proposed in 2016);
 - BA for diesel storage (proposed in 2016); and
 - Sunbird Energy gas pipeline EIA (in process).
- MH raised the concern that Eskom and SRK do not want the progress of the TISF EIA to be inhibited by the cumulative impacts of all the above-mentioned projects. MH noted further that given the large number of different projects, run by different EAPs and specialist teams, there is a

¹ There was some uncertainty in the meeting regarding the correct name of this project, which has been confirmed by Eskom to be Weskusfleur

potential risk of opposing views/findings between the projects. WH stated that opposing views should not be problematic.

- MS stated that in terms of cumulative impacts: Eskom needs to identify which of these developments will impact on the TISF.
- JG said that in order to accurately determine cumulative impacts, Eskom needs to be certain about impacts of existing projects for which environmental authorisation is being applied e.g. dimensions, vegetation clearance, etc. This information is not yet all available so it will not be possible to include future/proposed impacts. SJ confirmed that the cumulative assessment will at least mention all of these projects and although exact details are not available, would comments on cumulative impacts in a qualitative manner rather than assessing the cumulative impacts in detail.
- PM stated that his concern is about the Sunbird Energy gas pipeline and asked whether Eskom had commented on the Draft Environmental Impact Report (EIR) for this project. DJ confirm that Eskom has commented, noting their objections.
- PM also asked about the legislation relating to temporary storage vs permanent storage of water (with respect to the proposed water storage tanks). DJ discussed regulations regarding temporary storage, explaining that if any facility is built within 100m of the high water mark of the sea, provided that there is no clearance of indigenous vegetation, the facility can be present for up to six weeks without requiring a BA. DJ confirmed that such temporary structures were not included in the list of projects presented.
- MS iterated how useful the image of all relevant projects in the area is. DJ suggested that in the EIA, these projects would be tabulated including details of the relevant status and application numbers of each of the projects. MS confirmed that this would be helpful to the DEA during decision making, to understand the context of each project.

7 Way Forward

- RL once again thank the authorities for taking the time to discuss the project with the team.
- MH asked whether DEA would consider this project to be categorised as a Strategic Infrastructure Project (SIP). MS replied that the Nuclear Energy Program falls under SIP 9 or SIP 10 but not specific projects such as this one. MH confirmed that this confirmation would be in support of prioritising the project, and not necessarily for shortened timeframes given it is a nuclear related project. MS confirmed that she had agreed to attend the meeting to understand the importance thereof, and suggested the EIA team contact the Nuclear SIP Coordinator to confirm whether this project would qualify as a SIP.
- MS iterated how important it is for Eskom to manage the consultants well and to make sure that they review SRK reports thoroughly. MH reassured MS that Eskom has a thorough internal review process. MH further stated that she is an EAP assisting Eskom prepare for the EIA process and with the provision of all the relevant information required by SRK.
- MS raised a concern with respect to the proposed specialist studies, stating that in-house SRK specialists may not be considered independent by the public and that Eskom should consider getting these studies peer reviewed. SJ stated that this was not SRK's interpretation of the definition of independence in terms of the 2014 EIA Regulations. WH advised that SRK and Eskom should consider getting the reports peer reviewed and be cautious with the reviews. MS advised that SRK get a written opinion in this regard from DEA's IQ desk/policy and legislation department.

- DJ mentioned that the proposed CISF is the responsibility of the National Nuclear Radioactive Waste Disposal Institute (NNRWDI). DJ stated that the national policy indicates that Eskom must keep the option of future reprocessing of used fuel open. Therefore Eskom prefers not to use the term “spent” fuel but rather “used” fuel. The fuel in the TISF may be reprocessed and recycled at some stage in the future. As soon as Eskom transfers the fuel over to the NNRWDI it is no longer Eskom’s responsibility. Eskom cannot assume that the CISF will be built in 2025. Therefore, Eskom’s approach is to run the TISF in a modular fashion for the remaining anticipated operational life of KNPS.
- MS confirmed that reports must be submitted to the Chief Director at DEA and that she would provide details of the relevant SIP Coordinator after the meeting.
- It was suggested by WH that SRK and Eskom take note of the stakeholder comments on the Nuclear 1 EIA project to help predict the types of concerns that may be raised through this current project.
- There were no further comments or questions. SJ thanks everyone for a valuable discussion and closed the meeting.

Meeting closed at 10.00 am

Notes taken by: Fiona Evans

SRK Consulting - Certified Electronic Signature

 *Sharon Jones*

478317/42343/Minutes
8277-5637-9392-JONS

This signature has been printed digitally. The Author has given permission for its use for this document. The details are stored in the SRK Signature Database

Signed by: _____

Date: 7 December 2015

Sharon Jones

Appendix I: Written Comments from Stakeholders

ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOR THE PROPOSED
USED FUEL TRANSIENT INTERIM STORAGE FACILITY
AT KOEBERG NUCLEAR POWER STATION

SRK PROJECT NO: 478317

STAKEHOLDER REGISTRATION AND COMMENT FORM

Please complete and submit this form by hand, post, fax or email to:

SRK Consulting

Jessica du Toit

The Administrative Building, Albion Springs, 183 Main Road, Rondebosch, 7700

Postnet Suite #206, Private Bag X18, Rondebosch, 7701

Fax: 021 685 7105 Tel: 021 659 3060,

E-mail: jedutoit@srk.co.za

PLEASE PRINT CLEARLY

TO REGISTER AS A STAKEHOLDER:

Name: Bettie Leedo Date: 9/10/2015

Organisation (if any): City of Cape Town

Capacity (if applicable): Environmental Health : Western District.

Postal address: _____

Postal code: _____

Telephone number: _____ Fax number: 021 511 9030

E-mail: Bettie.Lecdo@capetown.gov.za

Preferred communication method (email / fax / post): email

Please indicate any direct business, financial, personal or other interest that you may have in the application:

Prevention of contamination to surrounding neighbourhoods.

Any initial comments or concerns that you may have regarding the proposed project can be indicated below and/or on a separate page:

1. period of storage on site
2. prevention of ground contamination
3. Why is CISF assumed unavailable for use by 2025?

SCIENTIFIC SERVICES

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physical Assegaaibosch Nature Reserve Jonkershoek
website www.capenature.co.za
enquiries Rhett Smart
telephone +27 21 866 8017 **fax** +27 21 866 1523
email rsmart@capenature.co.za
reference SSD14/2/6/1/4/1/34_waste storage_Koeberg
date 9 November 2015

SRK Consulting
Postnet Suite 206
Private Bag X18
Rondebosch
7701

Attention: Jessica du Toit
By email: jedutoit@srk.co.za

Dear Jessica

Background Information Document for the Proposed Used Fuel Transient Interim Storage Facility at Koeberg Nuclear Power Station, Cape Town

CapeNature would like to thank you for the opportunity to comment on the proposed development and would like to make the following comments. Please note that our comments only pertain to the biodiversity related impacts and not to the overall desirability of the proposed development.

The proposed facility will be placed on a concrete slab within the existing designated operational area of the existing nuclear power station. It is assumed that any natural vegetation within the footprint of the two proposed alternatives would already be impacted by the activities related to the adjacent power station, however CapeNature will comment further once a description is provided in the Draft Scoping Report. The proposed activities could also impact on coastal processes due to the proximity to the coastline.

It is assumed that the proposed development will include specialist studies related to health and safety risk. These studies should also include the natural environment as potential affected components within these studies.

CapeNature reserves the right to revise initial comments and request further information based on any additional information that may be received.

Yours sincerely



Rhett Smart
For: Manager (Scientific Services)

ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOR THE PROPOSED
USED FUEL TRANSIENT INTERIM STORAGE FACILITY
AT KOEBERG NUCLEAR POWER STATION

SRK PROJECT NO: 478317

STAKEHOLDER REGISTRATION AND COMMENT FORM

Please complete and submit this form by hand, post, fax or email to:

SRK Consulting

Jessica du Toit

The Administrative Building, Albion Springs, 183 Main Road, Rondebosch, 7700

Postnet Suite #206, Private Bag X18, Rondebosch, 7701

Fax: 021 685 7105 Tel: 021 659 3060,

E-mail: jedutoit@srk.co.za

PLEASE PRINT CLEARLY

TO REGISTER AS A STAKEHOLDER:

Name: GRAHAM MCBUCKLE Date: 27/10/2015

Organisation (if any): —

Capacity (if applicable): —

Postal address: PO BOX 382, MELKBOSSTRAND

Postal code: 7437

Telephone number: 021-553-5623 Fax number: —

E-mail: graham@nimblemouse.co.za

Preferred communication method (email / fax / post): EMAIL

Please indicate any direct business, financial, personal or other interest that you may have in the application:

LANDOWNER, NEIGHBOURING KOEBERG NUCLEAR POWER STATION

Any initial comments or concerns that you may have regarding the proposed project can be indicated below and/or on a separate page:

- ① - REQUIRE COMPREHENSIVE RISK ASSESSMENT ~~REQUIRED~~, INCLUDING ~~CON~~ CONSEQUENTIAL RISKS & CUMULATIVE RISK IN THE EVENT OF 1) ~~SEISMIC~~ SEISMIC EVENT ; 2) FIRE & 3) NUCLEAR EMERGENCY @ KNPS.
- ② VISUAL IMPACT
- ③ - NUCLEAR WASTE SHOULD BE STORED IN AN ~~REMOTE~~ REMOTE AREA REMOTE FROM DENSE HABITATION.

Comments from Graham Arbuckle:

As a resident of VanRiebeeckstrand and owner of land neighbouring Koeberg, my overriding concerns are:

- 1) That potentially harmful radioactive materials – spent fuel – are to be stored on site at the KNPS in quantities higher than originally planned for by the design of KNPS –within 2km of a residential suburb, and on a site optimized for power plant operation, as opposed to nuclear waste storage.
- 2) That due to the lack of any existing permanent storage solutions, the Transient Interim Storage Facility will be used indefinitely – up to and beyond the operating life of KNPS.
- 3) That due to the lack of any existing permanent storage solutions, the Transient Interim Storage Facility will be used for waste from other Nuclear Power Stations.
- 4) That due to the construction of the Transient Interim Storage Facility, the political will to pursue construction of permanent storage solutions will become diffused.

Specifics:

- 1) Please could you make available the slides/posters that made up the Public Open Day presentation. This would allow an opportunity for the many stakeholders that could not attend the Public Open Day to comment on the more (as opposed to the BID) comprehensive material presented.
- 2) Please ensure that the S&EIA takes into consideration the other proposed projects for the site. To assess the impact of a project in isolation of other plans for the area would render this S&EIA flawed, and in turn would render the pre-existing S&EIA reports meaningless. Amongst others, this project could potentially interrelate with:
 - Eskom Nuclear-1 proposals
 - Eskom Weskusfleur substation proposals
 - Sunbird Ibhubesi methane gas pipeline proposals
 - Western Cape Government LNG pipeline proposals
 - City of Cape Town pilot desalination plant proposals.
- 3) It should be required that a stakeholder-reviewed comprehensive risk analysis of the consequential and cumulative risks associated with the project and its location be undertaken. These include risks associated with a nuclear emergency at KNPS and/or Nuclear-1; fire; and natural events including an earthquake, tremor, sinkhole, or tsunami.

- 4) Please detail the regulatory/legislative framework that would prohibit the use of the site beyond the operating life of KNPS, and prohibit the use of the site for storage of waste from other sites, including Nuclear-1.
- 5) Please detail the projected design lifespan of the proposed casks, and detail the expected period that the materials stored within the casks would remain hazardous. Please detail the safety checks that would be undertaken to ensure the casks remain effective, and detail the procedures in place for replacing the casks as required.
- 6) The approval of construction of the TISF should be conditional on a commitment to build a permanent storage/reprocessing facility at a site elsewhere.

**ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOR THE PROPOSED
USED FUEL TRANSIENT INTERIM STORAGE FACILITY
AT KOEBERG NUCLEAR POWER STATION**

SRK PROJECT NO: 478317

STAKEHOLDER REGISTRATION AND COMMENT FORM

Please complete and submit this form by hand, post, fax or email to:
SRK Consulting
 Jessica du Toit
 The Administrative Building, Albion Springs, 183 Main Road, Rondebosch, 7700
 Postnet Suite #206, Private Bag X18, Rondebosch, 7701
 Fax: 021 685 7105 Tel: 021 659 3060
 E-mail: jedutoit@srk.co.za

PLEASE PRINT CLEARLY

M. Herbert

TO REGISTER AS A STAKEHOLDER:

Name: Discussion with Graham Arbuckle. **Date:** _____

Organisation (if any): _____

Capacity (if applicable): _____

Postal address: _____

_____ **Postal code:** _____

Telephone number: _____ **Fax number:** _____

E-mail: _____

Preferred communication method (email / fax / post): _____

Please indicate any direct business, financial, personal or other interest that you may have in the application:

Other Projects

- | | |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> - EIA - Sunbird - EIA - CoCT Pipeline - EIA - Nuclear 1 | <ul style="list-style-type: none"> - EIA - Westfleur substation. - Desalination Plant. |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|

Any initial comments or concerns that you may have regarding the proposed project can be indicated below and/or on a separate page:

- Risk Assessment on the interaction betw. Koeborg & Nuclear 1
- Koeborg Nature Reserve Management Plan.
 ↳ Do we need Cape Nature's & Management Approval before we can start on this project.
- Has the cumulative impacts of this project and Nuclear 1 & other projects been considered? How will it be considered?

- What happening in the National Nuclear Radioactive Waste Disposal Act. Why is the CWF not in place.
- Layout & location of TISF in relation to the Nuclear 1 Site.

ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOR THE PROPOSED
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Fax: 021 685 7105 Tel: 021 659 3060,

E-mail: jedutoit@srk.co.za

PLEASE PRINT CLEARLY

TO REGISTER AS A STAKEHOLDER:

Name: JAN NORMAN Date: 9/10/2015

Organisation (if any): N/A

Capacity (if applicable): HOME OWNER

Postal address: ERF 3108, 25 EDWARD CRESCENT,
DUYNESFONTEIN

Postal code: 7441

Telephone number: 078 733 8307 Fax number: 086 608 2452

E-mail: JAN.NORMAN@ESKOM.CO.ZA

Preferred communication method (email / fax / post): EMAIL/FAX

Please indicate any direct business, financial, personal or other interest that you may have in the application:

I AM A HOME OWNER AND ABUTTING NEIGHBOR TO THE KOEBERG OWNER CONTROLLED AREA

Any initial comments or concerns that you may have regarding the proposed project can be indicated below and/or on a separate page:

- THE CREATION OF A SPENDT FUEL STORAGE AREA CLOSE TO A RESIDENTIAL AREA

ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOR THE PROPOSED
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Postnet Suite #206, Private Bag X18, Rondebosch, 7701

Fax: 021 685 7105 Tel: 021 659 3060,

E-mail: jedutoit@srk.co.za

PLEASE PRINT CLEARLY

TO REGISTER AS A STAKEHOLDER:

Name: DLOFF DREYER Date: 16/10/2015

Organisation (if any): MELKBOSSTRAND PRIVATE SCHOOL

Capacity (if applicable): 200

Postal address: P.O. Box 441
MELKBOSSTRAND

Postal code: 7437

Telephone number: 021 553 1530 Fax number: 021 553 0610

E-mail: info@melkbosstrandprivate.co.za

Preferred communication method (email / fax / post): EMAIL

Please indicate any direct business, financial, personal or other interest that you may have in the application:

NONE

Any initial comments or concerns that you may have regarding the proposed project can be indicated below and/or on a separate page:

GENERAL OPERATIONAL HEALTH AND SAFETY PRECAUTIONS.

ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOR THE PROPOSED
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Fax: 021 685 7105 Tel: 021 659 3060,

E-mail: jedutoit@srk.co.za

PLEASE PRINT CLEARLY

TO REGISTER AS A STAKEHOLDER:

Name: Ryno van der Riet Date: 2015-10-20

Organisation (if any): /

Capacity (if applicable): /

Postal address: 64 BEACH ROAD,

MELK BOSSERANSO

Postal code: 7441

Telephone number: 021 444 8402 (w) Fax number:

E-mail: rudriet@telkom sa.net

Preferred communication method (email / fax / post): email

Please indicate any direct business, financial, personal or other interest that you may have in the application:

NO

Any initial comments or concerns that you may have regarding the proposed project can be indicated below and/or on a separate page:

- SFP is already at potential risk if damaged/leaked/bombed. It is not a secure facility to prevent radiation such as the containment and what will be done to have a "never radiation facility?"
- Will there be any radiation exposure to residential areas if the cooled down used fuel assembly is transferred to the cask, and if damaged in the cask or the cask being damaged?
- what will be done @ KAPS if the cooling loops are not achieved of spent fuel assemblies for safe transfer to the cask?

[Signature]
2015-10-20



E-mail duvall@mweb.co.za
Phone Chairperson 073 357 6359
Postal P O Box 235 Melkbosstrand 7437
Website www.melkbosstrand.net

12th October, 2015

Ms Jessica Du Toit
SRK Consulting
183 Main Road
Rondebosch
7700

Dear Ms Du Toit,

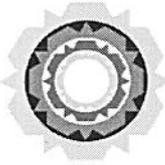
Re: Transient Interim Storage Facility at Koeberg Nuclear Power Station

Thank you for the information relating to the storage of dry casks at Koeberg Nuclear Power Station. The Melkbosstrand Ratepayers Association has no objection to this facility.

Please continue to keep us on your mailing list.

Yours sincerely

(Mrs) SM La Grange
Chairperson - Melkbosstrand Ratepayers Association
Ward 23 Representative
(Previous Chairperson – Koeberg Public Safety Information Forum 2015)



CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

ENERGY, ENVIRONMENT AND SPATIAL PLANNING DIRECTORATE
ENVIRONMENTAL RESOURCE MANAGEMENT DEPARTMENT

Morné Theron
Senior Environmental Practitioner

T: (021) 444 0601 F: (021) 444 0605
E: morne.theron@capetown.gov.za
Ref: BA 21/1/2/2/13N

9 November 2015

SRK Consulting (South Africa) (Pty) Ltd
Postnet Suite #206
P Bag X18
RONDEBOSCH
7701

Attention: Ms Jessica du Toit

[e-mail: jedutoit@srk.co.za]
Tel: 021 659 3060
Fax: 021 685 7105

Dear Madam

CAPE FARM 34, DUYNEFONTEIN: USED FUEL TRANSIENT INTERIM STORAGE FACILITY AT KOEBERG NUCLEAR POWER STATION: BACKGROUND INFORMATION DOCUMENT

The abovementioned Background Information Document (BID), your reference *SRK Project Number 478317*, dated September 2015, refers.

Kindly register the Environmental Resource Management Department: Blaauwberg District as the official City of Cape Town entry point for comment on the aforementioned EIA.

1. Be advised that the Environmental Resource Management Department (ERMD) is the duly mandated department to provide co-ordinated City comment on EIAs conducted within the municipality's jurisdiction. As the Koeberg Nuclear Power Station falls within the Blaauwberg District of the City your EIA must be submitted to this office for comment.
2. In order for the City to meet the statutory commenting deadline(s) you are required to timeously submit 1 x CD and 1 x hard copy of the various Environmental Impact Assessment reports to this office before ERMD can circulate the draft scoping report to all our affected line departments. The public participation commenting period will be calculated from the date that this office receives the CD and hard copy. As such please ensure that the CD and necessary documentation is delivered to our physical address as stated below.
3. In the interim the following comment is provided based on the limited information that was provided in the BID:
 - a. Please reflect the DEA reference number in all future correspondence.
 - b. Please list the listed activities in terms of the NEMA Listing notices that environmental authorization is being required.
 - c. Reflect the erf number of the subject property (i.e. Cape Farm 34, Duynefontein) in future documentation.

Kindly submit the draft Scoping Report (once available) to this office in the form of 1 x hard copy and 1 x CD version.

Yours faithfully

A handwritten signature in black ink, appearing to read 'Pat Titmuss', with a long horizontal flourish extending to the right.

PAT TITMUSS

REGIONAL MANAGER: ENVIRONMENTAL & HERITAGE MANAGEMENT: Northern Region (Blaauwberg District)

Questions for the EIA ; from 'TUG' WILSON

1/ The original Koeberg Emergency Plan which I was involved in writing followed strict guidelines especially with respect to Source Term, Emergency planning Zones, EPZ, LPZ, OCA etc. are we not already in conflict with the original licence.

2/ With the stockpiling of used fuel at Koeberg you will be increasing the potential "Source Term" while at the same time the population is increasing in the EPZ (16km) and getting EVER NEARER TO KOEBERG! Are you aware that a huge Shopping Mall (R1,9 Billion) is under construction within the zone and only 12 KM from Koeberg.

3/ Why not Vaalpoets as originally envisaged? If we are really going to build more Nuclear Stations it makes more sense to have a central repository.

* ARNIE THIS CASTLE SAFE TO FLY,!!

ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOR THE PROPOSED
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SRK PROJECT NO: 478317

STAKEHOLDER REGISTRATION AND COMMENT FORM

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SRK Consulting

Jessica du Toit

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Postnet Suite #206, Private Bag X18, Rondebosch, 7701

Fax: 021 685 7105 Tel: 021 659 3060

E-mail: jedutoit@srk.co.za

PLEASE PRINT CLEARLY

TO REGISTER AS A STAKEHOLDER:

Name: Robert Mayhew Date: _____

Organisation (if any): _____

Capacity (if applicable): _____

Postal address: _____

Postal code: _____

Telephone number: _____ Fax number: _____

E-mail: _____

Preferred communication method (email / fax / post): _____

Please indicate any direct business, financial, personal or other interest that you may have in the application:

Any initial comments or concerns that you may have regarding the proposed project can be indicated below and/or on a separate page:

- What are the plans for transportation of the casks (each option)
- Has Eskom considered reprocessing a cost of reprocessing vs cost to environment/humans. So much left in used rods so not 'robbing the earth of minerals'?
- Why aren't Eskom disposing used fuel at Vaalpoort? rather than 'temporary'.
- Has COCT considered evacuation plan a new developments within 16km of Koeborg eg new shopping mall at Sunningdale.
- Why aren't their provisions to make something more permanent if more nuclear facilities built at Koeborg?

Appendix J: Comments and Responses Summary

Comments and Responses Summary: Koeberg Transient Interim Storage Facility: Pre-Application Phase

The Issues and Responses Table provided below reflects stakeholder comments received by SRK in response to the Background Information Document released to the public prior to the commencement of the formal NEMA EIA process.

Please note that the key issues (rather than the full comments by stakeholders) have been captured in the table. Full copies of all written comments received are included in Appendix J. Not all issues captured are based on written comments received; some arose from discussions with stakeholders at the Public Open Day. Responses are provided by SRK and/or Eskom.

Issues are grouped as per the following general themes in the Issues and Responses Table:

- A. Project Motivation and Background
- B. Project Description
- C. Alternatives
- D. Potential Impacts, Risks and Safety Concerns of the Project
- E. Cumulative Impacts
- F. The EIA Process
- G. Regulatory Requirements

Abbreviations used in the Comments and Responses Summary

BID	Background Information Document
CISF	Central Interim Storage Facility
EIA	Environmental Impact Assessment
KNPS	Koeberg Nuclear Power Station
LNG	Liquified Natural Gas
NNR	National Nuclear Regulator
TISF	Transient Interim Storage Facility

Written comments were received from a number of stakeholders, as listed in Table 1.

Table 1: Written comments from IAPs during the Pre-Application Phase

#	Stakeholder	Affiliation	Comment received
1.	Bettie Leedo	City of Cape Town, Environmental Health: Western District	9/10/2015
2.	Jan Norman	Private	9/10/2015
3.	SM La Grange	Chairperson: Melkbosstrand Ratepayers Association	12/10/2015
4.	Oloff Dreyer	Melkbosstrand Private School	16/10/2015
5.	Ryno van der Riet	Private	20/10/2015
6.	Tug Wilson	Private	27/10/2015 (written comments submitted at Public Open Day)
7.	Robert Mayhew	Private	27/10/2015 (verbal comments at Public Open Day)
8.	Graham Arbuckle	Private	27/10/2015 (written comments submitted via email)
9.	Graham Arbuckle	Private	27/10/2015 (verbal comments at Public Open Day)
10.	Graham Arbuckle	Private	28/10/2015 (written comments submitted via email)
11.	Rhett Smart	CapeNature	9/11/2015
12.	Pat Titmuss	City of Cape Town, Regional Manager: Environmental and Heritage Management: Northern Region (Blaauwberg District)	9/11/2015
13.	A.M. Neethling	Private	23/11/2015

Comment and Responses Summary: Koeberg TISF: Pre-Application Phase

No	Issues	Document ¹	Stakeholder	Response
A. Project Motivation and Background				
1.	Used nuclear fuel should not be stored in such close proximity to a residential suburb.	Background Information Document (BID)	Jan Norman	<p>The potential impact of the TISF on human health of the communities surrounding KNPS will be identified and assessed by a Human Health Specialist.</p> <p>A Radiological Assessment was commissioned by Eskom prior to commencement of the EIA. The findings of the Radiological Assessment will feed into the Human Health Specialist Study. In order to meet the independence requirements as stipulated in the EIA Regulations, 2014, an independent review of the Radiological Assessment will be undertaken to inform the EIA process and ensure compliance with national legislation and international best practice.</p>
			Graham Arbuckle	
2.	Why is the CISF assumed to be unavailable for use by 2025?	BID	Bettie Leedo, CoCT	<p>The Radioactive Waste Management Policy and Strategy for the Republic of South Africa (2005) establishes a national radioactive waste policy framework setting out the principles and structures for the management of radioactive waste in a coordinated and cooperative manner. The Policy acknowledges that the disposal of high level waste presents the greatest challenges and investigations into the best long-term option for the management of used fuel are ongoing. In the interim, the Policy states that used nuclear fuel is and shall continue to be stored in authorised facilities within the generator's sites. The Policy does recognise that such storage is finite and storing used fuel on these sites is not sustainable.</p> <p>The Policy states that Government is responsible for ensuring that investigations are conducted within set timeframes to consider the various options for safe management of used fuel and high level radioactive waste in South Africa. Included in the options for investigation are the following:</p> <ul style="list-style-type: none"> • Long-term above ground storage at a CISF; • Reprocessing, conditioning and recycling; and • Deep geological disposal. <p>The CISF is a proposed central storage facility for used nuclear fuel and waste, to be established by the National Radioactive Waste Disposal Institute.</p> <p>Due to the uncertainty regarding the development of the CISF, only likely to be in operation after 2025 (worst case scenario), it has become imperative for Eskom to investigate interim options for the storage of used fuel on the KNPS site. Additional</p>
3.	Why is the CISF not in place?	BID	Graham Arbuckle	
4.	If more nuclear stations are to be built, a central repository is more feasible.	BID	"Tug" Wilson	
5.	Due to the construction of the TISF, the political will to pursue the construction of a permanent storage solution will become diffused. The approval of construction of the TISF should be conditional on a commitment to build a permanent storage/reprocessing facility at a site elsewhere.	BID	Graham Arbuckle	

¹ Public document in response to which comments were made.

No	Issues	Document ¹	Stakeholder	Response
				storage capacity will be required to accommodate any further used fuel generated at KNPS. Once (if and when) the CISF is constructed, the dry storage casks will be transported from the TISF to the CISF for long term storage/disposal.
6.	Due to the lack of any existing permanent storage solutions, the TISF will be used for waste from other Nuclear Power Stations.	BID	Graham Arbuckle	No nuclear waste from other nuclear facilities will be stored at the TISF.
7.	Why is used fuel not being stored at Vaalputs?	BID	“Tug” Wilson Robert Mayhew A.M. Neethling	Vaalputs is the national nuclear waste disposal site for low and intermediate level waste. There is currently no national nuclear waste disposal site for high level waste.
8.	Potentially harmful radioactive materials should not be stored on site at the KNPS in quantities higher than originally planned for by the design of KNPS.	BID	Graham Arbuckle	Due to the uncertainty regarding the development of the CISF, it has become imperative for Eskom to investigate interim options for the storage of used fuel on the KNPS site. Additional storage capacity will be required to accommodate any further used fuel generated at KNPS.
9.	Used fuel should not be stored on site as the site is optimized for power plant operation, not nuclear waste storage.	BID	Graham Arbuckle	<p>Eskom has a comprehensive Emergency Response Plan (ERP) for KNPS. The ERP will be reviewed and revised to incorporate emergency response procedures associated with the TISF. In the case of the TISF, there is very unlikely to be a scenario of severe damage to (KNPS and) the used fuel casks that would generate a radiation plume exceeding the plume from the (simultaneously damaged) reactor units or from the SFP. A detailed analysis of possible scenarios that may lead to radiological releases will be assessed in the Probabilistic Safety Assessment which has been commissioned by Eskom. The Probabilistic Safety Assessment will also inform the review of the KNPS ERP.</p> <p>A Radiological Assessment, commissioned by Eskom, will assess the potential radiation impacts of the TISF on Eskom employees and surrounding communities. An independent review of the Radiological Assessment will be undertaken to inform the EIA process and ensure compliance with national legislation and international best practice.</p> <p>Radiation risks associated with the TISF, and appropriate emergency response, will be evaluated by the National Nuclear Regulator (NNR), who will need to be assured that these matters are correctly addressed prior to authorising the TISF.</p>
B. Project Description				
10.	For how long will the used fuel be stored on site? With the lack of any existing permanent storage solutions, would this not continue up to and beyond the operating life of	BID	Bettie Leedo, CoCT Graham Arbuckle	The strategy for storage of used fuel at the TISF assumes that the planned CISF will not be commissioned earlier than 2025. However, due to the uncertainty around the

No	Issues	Document ¹	Stakeholder	Response
	KNPS?			development of the CISF, the TISF may be required through to the end of the expected operational life of KNPS. Once (when and if) the CISF is constructed, the dry storage casks will be transported from the TISF to the CISF for long term storage/disposal.
11.	How would casks be transported?	BID	“Tug” Wilson Robert Mayhew	<p>The dry storage casks will be transferred from the fuel buildings to the TISF on the existing KNPS internal road network and a new site access road on a specially designed vehicle. The sequence of loading one dry storage cask at the fuel building and transferring the cask to the TISF will take approximately 10 working days.</p> <p>The dry storage casks will be transported by road from the TISF to the CISF for long term storage/disposal.</p>
12.	Are the storage casks safe to fly?	BID	“Tug” Wilson	Eskom is not planning to transport the casks by air.
13.	The stockpiling of used fuel at Koeberg will increase the potential “source term” while at the same time the population is increasing in the emergency planning zone (16km) and getting closer to Koeberg. A large shopping mall (R1,9 Billion) is under construction within the zone and only 12km from Koeberg.	BID	“Tug” Wilson Robert Mayhew	<p>Eskom has a comprehensive Emergency Response Plan (ERP) for KNPS. The ERP will be reviewed and revised to incorporate emergency response procedures associated with the TISF. In the case of the TISF, there is very unlikely to be a scenario of severe damage to (KNPS and) the used fuel casks that would generate a radiation plume exceeding the plume from the (simultaneously damaged) reactor units or from the SFP. A detailed analysis of possible scenarios that may lead to radiological releases will be assessed in the Probabilistic Safety Assessment which has been commissioned by Eskom. The Probabilistic Safety Assessment will also inform the review of the KNPS ERP.</p> <p>A Radiological Assessment, commissioned by Eskom, will assess the potential radiation impacts of the TISF on Eskom employees and surrounding communities. An independent review of the Radiological Assessment will be undertaken to inform the EIA process and ensure compliance with national legislation and international best practice.</p> <p>Radiation risks associated with the TISF, and appropriate emergency response, will be evaluated by the National Nuclear Regulator (NNR), who will need to be assured that these matters are correctly addressed prior to authorising the TISF.</p>
14.	The Koeberg Emergency Plan contains strict guidelines with respect to source term, emergency planning zones, low population zone, owner-controlled area, etc. Is Koeberg not already in conflict with the original licence?	BID	“Tug” Wilson	The requirements for Emergency Preparedness and Response are specified in licence documentation such as NIL-001 “Nuclear Installation Licence”, RD-0014 “Emergency Preparedness and Response Requirements for Nuclear Installations” and the Koeberg Safety Analysis Report. Some key pertinent points with respect to the question posed are the requirement to be able to evacuate the 5 km zone within 4 hours and the 16 km zone within 16 hours. These Emergency Preparedness and Response criteria were reviewed following the Fukushima Daiichi accident and were determined to still be appropriate (“Re-assessment of Koeberg EP Technical Basis and EP Zone Sizes”,

No	Issues	Document ¹	Stakeholder	Response
				<p>R1617R1, Eskom, 2012). This review considered the potential radioactive releases from multi-unit accidents and the spent fuel pool accidents. The potential releases from used fuel storage casks has also been assessed and has no impact on the ability to implement emergency actions since any releases from the casks are orders of magnitude less than that possible from the reactors and the spent fuel pools on which the Emergency Preparedness and Response requirements are based.</p> <p>The ability to meet these Emergency Preparedness and Response requirements depends upon disaster management resources both in terms of equipment and personnel. Although some challenges were experienced within the recent annual Emergency Preparedness and Response exercise; the evacuation times and source terms used were not questioned.</p> <p>Further, a technical assessment was recently performed which indicates that the 5 km zone can indeed be evacuated within 4 hours and the 16 km zone within 16 hours for the predicted growth in local developments (housing and roads) that will occur while Koeberg operates ("Report on the update of the 2006 KNPS Traffic Evacuation Model", COC, 2012). All proposed developments within 16 km of KNPS undergo a similar assessment.</p>
C. Alternatives				
15.	Has Eskom considered reprocessing and the financial cost of reprocessing compared to the cost to the environment/humans? If there is fuel left in the used rods it should be utilised so that we do not deplete the earth of minerals.	BID	Robert Mayhew	<p>The Radioactive Waste Management Policy and Strategy for the Republic of South Africa (2005) establishes a national radioactive waste policy framework setting out the principles and structures for the management of radioactive waste in a coordinated and cooperative manner.</p> <p>The Policy states that Government is responsible for ensuring that investigations are conducted within set timeframes to consider the various options for safe management of used fuel and high level radioactive waste in South Africa including the reprocessing, conditioning and recycling of used fuel.</p>
D. Potential Impacts, Risks and Safety Concerns of the Project				
16.	The proposed activities could impact on coastal processes due to the proximity to the coastline.	BID	Rhett Smart, CapeNature	<p>The TISF will be located within the Owner Controlled Area of KNPS, a flat area disturbed by previous construction activities and by current operational activities at the KNPS.</p> <p>The TISF will be located more than 100 m from the High Water Mark of the sea.</p>
17.	What are the potential visual impacts of the TISF?	BID	Graham Arbuckle	The potential deterioration of sense of place and aesthetic value caused by the TISF

No	Issues	Document ¹	Stakeholder	Response
				will be assessed in a Visual Specialist Study. The TISF will be located in the KNPS Owner Controlled Area, a substantially modified landscape and is therefore unlikely to have significant negative visual impacts for receptors.
18.	How will the contamination of groundwater be prevented?	BID	Bettie Leedo, CoCT	The construction of the TISF may potentially impact on groundwater levels and quality although this is unlikely as groundwater at the project site is deeper than the proposed TISF excavation depth. The potential impact on groundwater will be assessed in a Geohydrology Specialist Study.
19.	General operational health and safety precautions must be followed.	BID	Oloff Dreyer	All applicable regulations and requirements will be met by Eskom.
20.	What is the projected design lifespan of the proposed casks, as well as the expected period that the materials stored within the casks would remain hazardous?	BID	Graham Arbuckle	The design lifespan is 50 years and service life is up to 100 years. The used fuel is hazardous for more than 100 years.
21.	What safety checks would be undertaken to ensure the casks remain effective, and what procedures are in place for replacing the casks as required?	BID	Graham Arbuckle	Casks are inherently safe. However, to ensure they remain effective, inspections are regularly performed.
22.	Koeberg is not secure enough from the sea side. What if there is an attack?	BID	A.M. Neethling	KNPS have security protocols in place to counter act seaside and land based attacks.
E. Cumulative Impacts				
23.	What is the layout and location of the TISF in relation to the Nuclear1 site?	BID	Graham Arbuckle	The TISF will be located within the Owner Controlled Area of KNPS. The location of the TISF in relation to all other current projects at Koeberg is illustrated on Figure 7-1 of the Scoping Report.
24.	The EIA process must take into consideration the other proposed projects on the Koeberg site, in order to assess the cumulative impact of all these projects. The following projects could potentially contribute to the cumulative impact: <ul style="list-style-type: none"> • Eskom Nuclear-1 proposals • Eskom Weskusfleur substation proposals • Sunbird Ibhubesi methane gas pipeline proposals • Western Cape Government LNG pipeline proposals • City of Cape Town pilot desalination plant proposals. 	BID	Graham Arbuckle	The potential direct, indirect and cumulative impacts (negative and positive) of the project and the No Go option will be addressed in the Impact Assessment Phase of the EIA. The cumulative impacts of those projects identified by the stakeholder as well as other proposed projects will be described qualitatively.
F. The EIA Process				
25.	Will the proposed development include specialist studies related to health and safety risk? Will these studies also	BID	Rhett Smart, CapeNature	A Terrestrial Ecology Specialist Study, Heath Specialist Study and Radiation Assessment Review will be undertaken as part of the Impact Assessment Phase. In

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	include the natural environment as potential affected components within these studies?			addition Eskom will commission review of the ERP to provide assurance that risks and emergency response linked to the TISF are adequately addressed and/or recommend measures to ensure that this is the case. SRK will ensure that the risk on the natural environment is included in the scope of these studies.
26.	The proposed project requires a comprehensive risk assessment, including consequential risks and cumulative risk in the event of : 1) A seismic event 2) Fire 3) A nuclear emergency at KNPS 4) Risk assessment on the interaction between Koeberg and Nuclear 1.	BID	Graham Arbuckle	The establishment of the TISF will be incorporated into the existing KNPS Emergency Response Plan (to be attached to the EIA Report as supporting information). This Plan will provide adequate management measures for environmental risks.
G. Regulatory Requirements				
27.	With regards to the Koeberg Nature Reserve Management Plan, is CapeNature and Koeberg Nature Reserve Management's approval needed before the project can commence?	BID	Graham Arbuckle	The TISF does not fall within the Koeberg Nature Reserve and amendment of the Koeberg Nature Reserve management Plan will not be required. CapeNature is identified as a commenting authority for TISF EIA.
28.	What is happening in the National Nuclear Radioactive Waste Disposal Act?	BID	Graham Arbuckle	The purpose of the TISF will be for the temporary storage of used fuel and not nuclear waste and, therefore, this Act will not be applicable to this facility. The CISF (which is not included in this project scope) is a proposed central storage facility for used nuclear fuel and waste, to be established by the National Radioactive Waste Disposal Institute.