vity ID	Activity Name	N OF ASEISMIC BEARINGS FOR	Original Duration		Finish	21 2022 2023 2024 QQQQQQQQQQQQQQ
RE-QUALIF	ICATION OF ASEISMIC BEA	RINGS FOR LONG TERM OPE	847	05-Oct-20	10-May-24	
SAMPLING AND TESTING		582	05-Oct-20	31-Mar-23	▼ 31-Mar-23, SA	
Contracting w	ith External Service Providers		131	05-Jul-21	28-Jan-22	28-Jan-22, Contracting with
ST-CNT-100	Compile URS for testing of samples		35	04-Oct-21*	19-Nov-21	☐ Compile URS for testing of sai
ST-CNT-200	Place contract(s) for testing of samples		131	05-Jul-21	28-Jan-22	Place contract(s) for testing
Control Samp	ling and Testing		395	05-Oct-20	17-Jun-22	17-Jun-22, Control Sam
Sampling			306	05-Oct-20	04-Feb-22	04-Feb-22, Sampling
ST-CS-100	Compile TRS for the removal of in-situ b	earing samples		05-Oct-20*	30-Oct-20	pile TRS for the removal of in-situ be
ST-CS-200	Compile TRS for the removal of sample	bearing samples	20	05-Oct-20*	30-Oct-20	pile TRS for the removal of sample b
ST-CS-300	Compile TRS for the removal and rehab	litation of in-situ bearing external wrapping	20	02-Nov-20*	27-Nov-20	ipile TRS for the removal and rehabi
ST-CS-500	Fabrication of sample removal template		10	08-Feb-21*	19-Feb-21	abrication of sample removal template
ST-CS-400	Compile a QCP for removal of control sa	amples	15	05-Jul-21*	23-Jul-21	■ Compile a QCP for removal of co
ST-CS-600	Obtain NNR approval for sample remov	al	29	26-Jul-21	03-Sep-21	☐ Obtain NNR approval for sample
ST-CS-700	Work orders and preparatory work for s	ample removal	69	02-Aug-21*	08-Nov-21	Work orders and preparatory
ST-CS-800	Remove external wrapping of in-situ bea	rings	4	09-Nov-21	12-Nov-21	Remove external wrapping of
ST-CS-900	Perform shore hardness measurements	on wrapping material	4	09-Nov-21	12-Nov-21	l Perform shore hardness mea
ST-CS-1000	Inspect condition of in-situ bearing behin	d external wrapping (photographs)	4	09-Nov-21	12-Nov-21	Inspect condition of in-situ bea
ST-CS-1100	Remove control samples from in-situ be	arings	4	09-Nov-21	12-Nov-21	Remove control samples from
ST-CS-1200	Remove control samples from sample b	earings	4	09-Nov-21	12-Nov-21	Remove control samples from
ST-CS-1300	Remove control samples from scrap sa	mple bearings	4	09-Nov-21	12-Nov-21	Remove control samples from
ST-CS-1600	Preparation of sample for expedited TGA	A test to determine percentage carbon black	10	15-Nov-21	26-Nov-21	Preparation of sample for exp
ST-CS-1700	Packaging and transport of sample for e	xpedited TGA test to Eskom testing facility	5	29-Nov-21	03-Dec-21	■ Packaging and transport of s
ST-CS-1400	Rehabilitation of in-situ bearings (externa	al wrapping)	24	09-Nov-21	10-Dec-21	Rehabilitation of in-situ bearin
ST-CS-1500	Document findings of in-situ bearing insp	pection	23	15-Nov-21	15-Dec-21	Document findings of in-situ
ST-CS-1800	Preparation of samples (machining and	micro-slicing)	28	15-Nov-21	14-Jan-22	Preparation of samples (ma
ST-CS-1900	Packaging of samples for dispatch to lab	poratory	10	17-Jan-22	28-Jan-22	Packaging of samples for d
ST-CS-2000	Transport samples to laboratory		5	31-Jan-22	04-Feb-22	■ Transport samples to labor
Testing			117	06-Dec-21	17-Jun-22	▼ 17-Jun-22, Testing
ST-CT-100	Test preparation and setup of test appar	atus for expedited TGA test	5	06-Dec-21	10-Dec-21	l Test preparation and setup o
ST-CT-200	Perform expedited TGA test to determine percentage carbon black		13	13-Dec-21	21-Jan-22	■ Perform expedited TGA test
ST-CT-300	Report on test results of expedited TGA test		5	24-Jan-22	28-Jan-22	Report on test results of ex
ST-CT-400	Test preparation and setup of test apparatus		10	07-Feb-22	18-Feb-22	Test preparation and setup
ST-CT-500	Perform tensile test on in-situ and samp	e bearing (large and small specimens) control sa	29	21-Feb-22	01-Apr-22	Perform tensile test on in-
	Actual Work			gove	ndgk	

ctivity ID	Activity Name	N OF ASEISMIC BEARINGS FOR	Original		Finish	21 2022 2023 2024
ouvily 12	, tourns, realing		Duration	Otart	1 111011	
ST-CT-600	Perform shore A hardness test on in-situ	u bearing control samples	29	21-Feb-22	01-Apr-22	☐ Perform shore A hardness
ST-CT-700	Perform flexural test on in-situ and samp	ole bearing control samples	29	21-Feb-22	01-Apr-22	Perform flexural test on in-s
ST-CT-800	Perform DMTA test on in-situ bearing co	ntrol samples	29	21-Feb-22	01-Apr-22	☐ Perform DMTA test on in-si
ST-CT-900	Perform shear modulus test on in-situ a	nd sample bearing control samples	29	21-Feb-22	01-Apr-22	Perform shear modulus tes
ST-CT-1000	Perform peel test on in-situ and sample	bearing (friction-couple bearing) control samples	29	21-Feb-22	01-Apr-22	Perform peel test on in-situ
ST-CT-1100	Perform coefficient of friction test on sar	nple bearing control samples	29	21-Feb-22	01-Apr-22	Perform coefficient of friction
ST-CT-1200	Perform TGA test on in-situ and sample	bearing control samples	29	21-Feb-22	01-Apr-22	☐ Perform TGA test on in-situ
ST-CT-1300	Perform FTIR test on in-situ and sample	bearing control samples	29	21-Feb-22	01-Apr-22	■ Perform FTIR test on in-sit
ST-CT-1400	Perform microscopy test on in-situ and s	sample bearing control samples	29	21-Feb-22	01-Apr-22	☐ Perform microscopy test or
ST-CT-1700	Document test results (excluding UV tes	st)	5	04-Apr-22	08-Apr-22	l Document test results (exc
ST-CT-1800	Review report on test results (excluding	UV test)	4	11-Apr-22	14-Apr-22	l Review report on test resu
ST-CT-1900	Determine need for mass sampling and	sample size needed	8	19-Apr-22*	29-Apr-22	Determine need for mass
ST-CT-1500	UV ageing of sample bearing control sar	mple for 3 months	55	21-Feb-22	13-May-22	UV ageing of sample bear
ST-CT-1600	Perform UV test on sample bearing conf	rol sample	15	16-May-22	03-Jun-22	
ST-CT-2000	Document UV test results		5	06-Jun-22	10-Jun-22	Document UV test result
ST-CT-2100	Review report on UV test results		4	13-Jun-22	17-Jun-22	I Review report on UV tes
Mass Sampling and Testing			163	14-Mar-22	04-Nov-22	▼ 04-Nov-22, Mass S
Sampling			113	14-Mar-22	26-Aug-22	▼ 26-Aug-22, Sampling
ST-MS-100	Compile a QCP for mass sampling		40	14-Mar-22*	13-May-22	Compile a QCP for mass
ST-MS-200	Obtain NNR approval of justification for	continued testing	29	03-May-22	10-Jun-22	Obtain NNR approval of
ST-MS-300	Work orders and preparatory work for s	ample removal	29	09-May-2	17-Jun-22	Work orders and prepare
ST-MS-400	Remove external wrapping of in-situ bea	rings	5	20-Jun-22	24-Jun-22	l Remove external wrapp
ST-MS-500	Perform shore hardness measurements	on wrapping material	5	20-Jun-22	24-Jun-22	l Perform shore hardness
ST-MS-600	Inspect condition of in-situ bearing behin	d external wrapping (photographs)	5	20-Jun-22	24-Jun-22	I Inspect condition of in-s
ST-MS-700	Remove samples from in-situ bearings		5	20-Jun-22	24-Jun-22	l Remove samples from i
ST-MS-800	Rehabilitation of in-situ bearings (externa	al wrapping)	25	20-Jun-22	22-Jul-22	Rehabilitation of in-situ
ST-MS-900	Document findings of in-situ bearing insp	pection	25	27-Jun-22	29-Jul-22	<ul><li>Document findings of ir</li></ul>
ST-MS-1000	Preparation of samples (machining and	micro-slicing)	30	27-Jun-22	05-Aug-22	Preparation of samples
ST-MS-1100	Packaging of samples for dispatch to lab	poratory	9	08-Aug-22	19-Aug-22	l Packaging of samples
ST-MS-1200	Transport samples to laboratory		5	22-Aug-22	26-Aug-22	l Transport samples to
Testing			50	29-Aug-22	04-Nov-22	▼ 04-Nov-22, Testing
ST-MT-100	Test preparation and setup of test apparatus		10	29-Aug-22	09-Sep-22	Test preparation and
ST-MT-200	Perform tensile test on in-situ bearing samples		30	12-Sep-22	21-Oct-22	☐ Perform tensile test
ST-MT-300	Perform shore A hardness test on in-situ bearing samples			12-Sep-22	21-Oct-22	Perform shore A har
Actual Wo	ŭ	Page 2 of 5		gove	ndgk	

tivity ID	Activity Name		Original Duration	Start	Finish	21 2022 2023 2024
ST-MT-400	Perform flexural test on in-situ bearing s	<u>'</u>		12-Sep-22		☐ Perform flexural test
ST-MT-500	Perform DMTA test on in-situ bearing sa	mples		12-Sep-22		☐ Perform DMTA test of
ST-MT-600	Perform shear modulus test on in-situ be	earing samples	30	12-Sep-22	21-Oct-22	☐ Perform shear modu
ST-MT-700	Perform peel test on in-situ bearing sam	ples		12-Sep-22	21-Oct-22	Perform peel test on
ST-MT-800	Perform FTIR test on in-situ bearing sar	nples	30	12-Sep-22	21-Oct-22	☐ Perform FTIR test o
ST-MT-900	Perform microscopy test on in-situ beari	ng samples	30	12-Sep-22	21-Oct-22	☐ Perform microscopy
ST-MT-1000	Document test results		5	24-Oct-22	28-Oct-22	■ Document test resu
ST-MT-1100	Review report on test results		5	31-Oct-22	04-Nov-22	Review report on te
Sampling and	Testing of Thermally-Aged Compoun	ded Neoprene	281	31-Jan-22	31-Mar-23	▼ 31-Mar-23, Sar
Sampling			25	31-Jan-22	04-Mar-22	▼ 04-Mar-22, Sampling
ST-TS-100	Manufacture compounded neoprene ma	terial	20	31-Jan-22	25-Feb-22	Manufacture compounded
ST-TS-200	Preparation of samples		5	28-Feb-22	04-Mar-22	Preparation of samples
Testing			256	07-Mar-22	31-Mar-23	▼ 31-Mar-23, Tes
ST-TT-100	Test preparation and setup of test appar	atus	5	07-Mar-22	11-Mar-22	I Test preparation and setup
ST-TT-300	Perform tensile test on thermally-aged s	amples at 3 months	19	06-Jun-22*	01-Jul-22	Perform tensile test on tensile
ST-TT-400	Perform shore A hardness test on therm	nally-aged samples at 3 months	19	06-Jun-22*	01-Jul-22	Perform shore A hardne
ST-TT-500	Perform flexural test on thermally-aged s	samples at 3 months	19	06-Jun-22*	01-Jul-22	Perform flexural test on
ST-TT-600	Perform DMTA test on thermally-aged sa	amples at 3 months	19	06-Jun-22*	01-Jul-22	Perform DMTA test on t
ST-TT-700	Perform FTIR test on thermally-aged sa	mples at 3 months	19	06-Jun-22*	01-Jul-22	Perform FTIR test on the
ST-TT-2500	Test preparation and setup of test appar	atus	5	29-Aug-22	02-Sep-22	I Test preparation and
ST-TT-800	Perform tensile test on thermally-aged sa	amples at 6 months	20	29-Aug-22*	23-Sep-22	Perform tensile test of
ST-TT-900	Perform shore A hardness test on therm	nally-aged samples at 6 months	20	29-Aug-22*	23-Sep-22	Perform shore A hard
ST-TT-1000	Perform flexural test on thermally-aged s	amples at 6 months	20	29-Aug-22*	23-Sep-22	Perform flexural test
ST-TT-1100	Perform DMTA test on the rmally-aged sa	amples at 6 months	20	29-Aug-22*	23-Sep-22	Perform DMTA test of
ST-TT-1200	Perform FTIR test on thermally-aged sa	mples at 6 months	20	29-Aug-22*	23-Sep-22	Perform FTIR test or
ST-TT-1300	Perform tensile test on thermally-aged s	amples at 9 months	19	21-Nov-22*	15-Dec-22	Perform tensile tes
ST-TT-1400	Perform shore A hardness test on therm	nally-aged samples at 9 months	19	21-Nov-22*	15-Dec-22	Perform shore A h
ST-TT-1500	Perform flexural test on thermally-aged s	amples at 9 months	19	21-Nov-22*	15-Dec-22	Perform flexural te
ST-TT-1600	Perform DMTA test on the rmally-aged sa	amples at 9 months	19	21-Nov-22*	15-Dec-22	Perform DMTA tes
ST-TT-1700	Perform FTIR test on thermally-aged sa	mples at 9 months	19	21-Nov-22*	15-Dec-22	Perform FTIR test
ST-TT-2700	Perform shear modulus test on thermally	Perform shear modulus test on thermally-aged in-situ bearing samples at 3 months		28-Nov-22*	15-Dec-22	Perform shear mo
ST-TT-2800	Perform microscopy test on thermally-aged in-situ bearing samples at 3 months		14	28-Nov-22*	15-Dec-22	Perform microsco
ST-TT-200	Thermal ageing of compounded neoprene for 12 months		217	14-Mar-22	10-Feb-23	Thermal ageing of
ST-TT-2600	Thermal ageing of in-situ bearing sample	es (from mass sampling) for 6 months	104	05-Sep-22	17-Feb-23	Thermal ageing
Actual Wo	•	Page 3 of 5		gove	ndgk	

RE-QUALIFICATION OF ASEISMIC BEARINGS FOR L ivity ID Activity Name		Original		Finish	21 2022 2023 2024
		Duration			
ST-TT-1800	Perform tensile test on thermally-aged samples at 12 months	20	13-Feb-23	10-Mar-23	Perform tensile t
ST-TT-1900	Perform shore A hardness test on thermally-aged samples at 12 m	onths 20	13-Feb-23	10-Mar-23	Perform shore A
ST-TT-2000	Perform flexural test on thermally-aged samples at 12 months	20	13-Feb-23	10-Mar-23	Perform flexural
ST-TT-2100	Perform DMTA test on thermally-aged samples at 12 months	20	13-Feb-23	10-Mar-23	Perform DMTA t
ST-TT-2200	Perform FTIR test on thermally-aged samples at 12 months	20	13-Feb-23	10-Mar-23	Perform FTIR to
ST-TT-2300	Document test results	5	13-Mar-23	17-Mar-23	Document test
ST-TT-2900	Perform shear modulus test on thermally-aged in-situ bearing sam	ples at 6 months 20	20-Feb-23*	17-Mar-23	Perform shear
ST-TT-3000	Perform microscopy test on thermally-aged in-situ bearing samples	s at 6 months 20	20-Feb-23*	17-Mar-23	☐ Perform micros
ST-TT-2400	Review report on test results	4	20-Mar-23	24-Mar-23	Review report of
ST-TT-3100	Document test results	4	20-Mar-23	24-Mar-23	l Document test
ST-TT-3200	Review report on test results	5	27-Mar-23	31-Mar-23	Review report of
MODELLING		627	05-Jul-21	01-Mar-24	▼ 01-M
Contracting w	ith External Service Providers	131	05-Jul-21	28-Jan-22	28-Jan-22, Contracting with
M-CNT-100	Compile URS for modelling	35	04-Oct-21*	19-Nov-21	☐ Compile URS for modelling
M-CNT-200	Place contract(s) for 2D and 3D modelling	131	05-Jul-21	28-Jan-22	Place contract(s) for 2D and
Characterisation of Aseismic Bearing Properties		245	19-Apr-22	28-Apr-23	▼ 28-Apr-23, Ch
M-ABP-100	Initial characterisation of bearing properties up to 40 yrs using cont	rol sample test results 17	19-Apr-22	13-May-22	Initial characterisation of
M-ABP-200	Initial characterisation of bearing properties up to 40 yrs using cont	rol sample test results 20	20-Jun-22	15-Jul-22	I Initial characterisation of
M-ABP-300	Refined characterisation of bearing properties up to 40 yrs using m	nass sample test results 20	07-Nov-22	02-Dec-22	Refined characteri
M-ABP-400	Refined characterisation of bearing properties up to 40 yrs using the	nermally-aged material 18	27-Mar-23	21-Apr-23	Refined chara
M-ABP-500	Characterisation of bearing properties up to 60 yrs using thermally-	aged material test res 17	03-Apr-23	28-Apr-23	Characterisati
Development	of 2D Model	267	31-Jan-22	10-Mar-23	▼ 10-Mar-23, Dev
M-2D-100	Review and further development of existing 2D model	53	31-Jan-22	14-Apr-22	Review and further development
M-2D-200	Qualification of new 2D model	160	19-Apr-22	02-Dec-22	Qualification of new
M-2D-300	Submit new 2D model to Eskom for review and comments	14	05-Dec-22	13-Jan-23	☐ Submit new 2D m
M-2D-400	Address comments from reviewers	20	16-Jan-23	10-Feb-23	Address comme
M-2D-500	Eskom approval of new 2D model	20	13-Feb-23	10-Mar-23	Eskom approva
Development of 3D Model		356	31-Jan-22	21-Jul-23	▼ 21-Jul-23, [
M-3D-100	Review and further development of existing 3D model		31-Jan-22	04-Nov-22	Review and further
M-3D-200	Qualification of new 3D model		07-Nov-22	28-Apr-23	Qualification o
M-3D-300	Submit new 3D model to Eskom for review and comments		02-May-23	26-May-23	Submit new 3
M-3D-400	Address comments from reviewers		29-May-23	23-Jun-23	Address cor
M-3D-500	Eskom approval of new 3D model		26-Jun-23	21-Jul-23	■ Eskom app
Actual Work		Page 4 of 5	gove	ndgk	

rity ID	RE-QUALIFICATION OF ASEISMIC BEARINGS FOR Activity Name	Original Duration		Finish	21 2022 2023 2024 QQQQQQQQQQQQQQQQQ
Modelling of D	Pata	598	16-Aug-21	01-Mar-24	▼ 01-Mai
M-MDL-100	Obtain interim seismic hazard curve (SSHAC)	87	16-Aug-21*	15-Dec-21	Obtain interim seismic hazard
M-MDL-200	Model the response of the NI using an SDOF system and control sample test results (ex	27	19-Apr-22	27-May-22	☐ Model the response of the
M-MDL-300	Model the response of the NI using an SDOF system and control sample test results (inc	30	20-Jun-22	29-Jul-22	☐ Model the response of t
M-MDL-400	Model the response of the NI using an SDOF system and mass sample test results	29	07-Nov-22	15-Dec-22	☐ Model the response
M-MDL-500	Model the response of the NI using 2D model	18	13-Mar-23	06-Apr-23	■ Model the response
M-MDL-600	Model the response of the NI using 3D model and interim seismic hazard curve	19	24-Jul-23	18-Aug-23	Model the re
M-MDL-700	Obtain final seismic hazard curve (SSHAC)	89	14-Aug-23*	15-Dec-23	Obtain f
M-MDL-800	Model the response of the NI using 3D model and final seismic hazard curve	37	11-Jan-24	01-Mar-24	■ Mode
REPORTING	G OF MODELLING RESULTS INTO LTO PROGRAMME	466	30-May-22	10-May-24	10-
LTO-100	Model the response of the NI using 3D model and final seismic hazard curve	29	30-May-22	08-Jul-22	☐ Model the response of t
LTO-200	Augment report for continued operation using results from SDOF modelling (mass sample	25	09-Jan-23	10-Feb-23	☐ Augment report fo
LTO-300	Compile report for LTO using results from 2D modelling	27	11-Apr-23	19-May-23	☐ Compile repor
LTO-600	Submit report to NNR - 2D model	19	22-May-23	15-Jun-23	Submit report
LTO-400	Compile report for LTO using results from 3D modelling - interim seismic curve	29	21-Aug-23	29-Sep-23	☐ Compile re
LTO-700	Submit report to NNR - 3D model with interim seismic curve	20	02-Oct-23	27-Oct-23	☐ Submit re
LTO-500	Compile report for LTO using results from 3D modelling - final seismic curve	30	04-Mar-24	12-Apr-24	■ Com
LTO-800	Submit report to NNR - 3D model with final seismic curve	20	15-Apr-24	10-May-24	■ Sub

Actual Work		Critical Remaining
Remaining Work	•	◆ Milestone