Appendix C: Price and Transparency

Statements of Methodology and Charging for connection UK Distribution Network Operators as of October 2013

Section C - Assessment and Design for all relevant work		SHEPD	SEPD	SP	WPD East	WPD West	Northern Power North East	Northern Power Yorkshire	Electricity NW	UKPN London	UKPN Eastern	UKPN South East	WPD South West	WPD South Wales	DNO Average	SHEPD Vs DNO Avg	SEPD Vs DNO Avg
Category	Description																
Demand	Single LV Service Demand ConnectionA	Nil	Nil	Nil	£106	£106	£50	£50	N/A	£83	£91	£101	£106	£106	£89	N/A	N/A
	2 to 4 services single phase LV, no extension to LV networkB	Nil	Nil	Nil	£159	£159	£50	£50	N/A	£463	£369	£396	£159	£159	£218	N/A	N/A
	1-4 Premises, single phase LV, extension to the LV networkC required	Nil	Nil	Nil	£213	£213	£240	£240	N/A	£463	£369	£396	£213	£213	£284	N/A	N/A
	1 three phase LV service with whole current metering to a single PremisesD	Nil	Nil	Nil	£106	£106	£50	£50	N/A	£83	£91	£101	£106	£106	£89	N/A	N/A
	Other LV connection(s) with a total load of up to 100kVA	Nil	Nil	Nil	£332	£332	£480	£480	£1,490	£410	£390	£470	£332	£332	£505	N/A	N/A
	Other LV connection(s) with a total load greater than 100kVA and up to 250kVA LV	£630	£630	Nil	£475	£475	£480	£480	£2,100	£730	£710	£790	£475	£475	£704	0.89	0.89
	Connection greater than 250kVA and up to 1MVA at LV	£630	£630	Nil	£594	£594	£540	£540	£2,610	£2,330	£2,300	£2,300	£594	£594	£1,188	0.53	0.53
	Connection up to 250kVA at HV	£630	£630	£1,250	£713	£713	£63	£63	£2,360	£730	£710	£790	£713	£713	£775	0.81	0.81
	Connection greater than 250kVA and up to 1MVA at HV	£630	£630	£1,250	£713	£713	£810	£810	£4,730	£2,330	£2,300	£2,390	£713	£713	£1,441	0.44	0.44
	Connection greater than 1MVA and up to 3MVA at HV	£895	£895	£2,500	£971	£971	£810	£810	£5,220	£6,570	£6,550	£6,640	£971	£971	£2,675	0.33	0.33
	Connection greater than 3MVA and up to 10MVA at HV	£2,625	£2,625	£2,500	£1,737	£1,737	£1,080	£1,080	£6,220	£7,640	£7,610	£7,700	£1,737	£1,737	£3,541	0.74	0.74
	Connection greater than 3MVA and up to 10MVA at EHV	£2,625	£2,625	£7,500	£2,637	£2,637	POA	POA	POA	£7,640	£7,610	£7,700	£2,637	£2,637	£4,625	0.57	0.57
	Connection greater than 10MVA and up to 50MVA	£5,250	£5,250	£7,500	£3,236	£3,236	POA	POA	POA	POA	POA	POA	£3,236	£3,236	£4,421	1.19	1.19
	Connection greater than 10MVA and up to 50MVA	£5,250	£5,250	£7,500	£4,436	£4,436	POA	POA	POA	POA	POA	POA	£4,436	£4,436	£5,106	1.03	1.03
Generation	Connection of a single Small Scale Embedded Generator	£500	£500	Nil	£119	£119	N/A	N/A	N/A	£83	£91	£101	£119	£119	£195	2.57	2.57
	Connection of other generation at LV up to 20kVA not covered by the above	£500	£500	£500	£367	£367	£400	£400	£1,490	£580	£480	£560	£367	£367	£529	0.95	0.95
	Connection of other generation at LV greater than 20kVA and up to 50kVA	£500	£500	£500	£733	£733	£560	£560	£1,990	£640	£540	£620	£733	£733	£719	0.7	0.7
	Connection of other generation at LV greater than 50kVA	£1,135	£1,135	£500	£981	£981	£560	£560	£5,220	£960	£860	£940	£981	£981	£1,215	0.93	0.93
	Connection of generation at HV up to 250kVA	£5,515	£5,515	£3,000	£1,204	£1,204	£1,080	£1,080	£2,720	£2,730	£2,240	£2,310	£1,204	£1,204	£2,385	2.31	2.31
	Connection of generation at HV greater than 250kVA and up to 1MVA	£5,515	£5,515	£3,000	£1,354	£1,354	£1,080	£1,080	£6,970	£4,730	£4,250	£4,320	£1,354	£1,354	£3,221	1.71	1.71
	Connection of generation at HV greater than 1MVA	£5,775	£5,775	£3,000	£1,913	£1,913	£1,350	£1,350	£8,330	£9,740	£9,250	£9,320	£1,913	£1,913	£4,734	1.22	1.22
	Connection of generation at EHV up to 10MVA	£9,450	£9,450	£8,000	£3,686	£3,686	POA	POA	POA	POA	POA	POA	£3,686	£3,686	£5,949	1.59	1.59
	Connection of generation at EHV greater than 10MVA £6,825	£9,450	£9,450	£8,000	£3,986	£3,986	POA	POA	POA	POA	POA	POA	£3,986	£3,986	£6,121	1.54	1.54
	Connection of generation greater than 50MVA	£12,600	£12,600	£10,000	£5,335	£5,335	POA	POA	POA	POA	POA	POA	£5,335	£5,335	£8,077	1.56	1.56

Section D - CIC Assessment and Design of the Non-Contestable Work		SHEPD	SEPD	SP	WPD East	WPD West	Northern Power North East	Northern Power Yorkshire	Electricity NW	UKPN London	UKPN Eastern	UKPN South East	WPD South West	WPD South Wales	DNO Average	SHEPD Vs DNO Avg	SEPD Vs DNO Avg
Category	Description																
Demand	Single LV Service Demand ConnectionA	Nil	Nil	£250	£106	£106	£50	£50	£120	£38	£42	£36	£106	£106	£92	N/A	N/A
	2 to 4 services single phase LV, no extension to LV networkB	Nil	Nil	£250	£159	£159	£50	£50	£120	£98	£81	£70	£159	£159	£123	N/A	N/A
	1-4 Premises, single phase LV, extension to the LV networkC required	Nil	Nil	£250	£213	£213	£160	£160	£250	£98	£81	£70	£213	£213	£175	N/A	N/A
	1 three phase LV service with whole current metering to a single PremisesD	Nil	Nil	£250	£106	£106	£50	£50	£250	£38	£42	£36	£106	£106	£104	N/A	N/A
	Other LV connection(s) with a total load of up to 100kVA	Nil	Nil	£250	£357	£357	£400	£400	£1,000	£110	£110	£110	£357	£357	£346	N/A	N/A
	Other LV connection(s) with a total load greater than 100kVA and up to 250kVA LV	Nil	Nil	£250	£416	£416	£400	£400	£1,240	£270	£260	£270	£416	£416	£432	N/A	N/A
	Connection greater than 250kVA and up to 1MVA at LV	Nil	Nil	£250	£475	£475	£450	£450	£1,490	£1,030	£1,020	£1,100	£475	£475	£699	N/A	N/A
	Connection up to 250kVA at HV	£525	£525	£1,250	£594	£594	£540	£540	£1,740	£270	£260	£270	£594	£594	£638	0.82	0.82
	Connection greater than 250kVA and up to 1MVA at HV	£1,050	£1,050	£1,250	£594	£594	£720	£720	£2,990	£1,030	£1,020	£1,100	£594	£594	£1,024	1.03	1.03
	Connection greater than 1MVA and up to 3MVA at HV	£1,050	£1,050	£1,500	£723	£723	£720	£720	£4,230	£3,070	£3,060	£3,310	£723	£723	£1,662	0.63	0.63
	Connection greater than 3MVA and up to 10MVA at HV	£1,050	£1,050	£1,500	£1,225	£1,225	£990	£990	£4,980	£3,580	£3,570	£3,860	£1,225	£1,225	£2,036	0.52	0.52
	Connection greater than 3MVA and up to 10MVA at EHV	£2,625	£2,625	£5,000	£2,037	£2,037	POA	POA	POA	£3,580	£3,570	£3,860	£2,037	£2,037	£2,941	0.89	0.89
	Connection greater than 10MVA and up to 50MVA	£5,250	£5,250	£5,000	£2,337	£2,337	POA	POA	POA	POA	POA	POA	£2,337	£2,337	£3,550	1.48	1.48
	Connection greater than 10MVA and up to 50MVA	£5,250	£5,250	£5,000	£3,536	£3,536	POA	POA	POA	POA	POA	POA	£3,536	£3,536	£4,235	1.24	1.24
Generation	Connection of a single Small Scale Embedded Generator	Nil	Nil	Nil	£119	£119	N/A	N/A	£120	£38	£42	£36	£119	£119	£89	N/A	N/A
	Connection of other generation at LV up to 20kVA not covered by the above	Nil	Nil	£350	£248	£248	£320	£320	£1,240	£360	£280	£270	£248	£248	£376	N/A	N/A
	Connection of other generation at LV greater than 20kVA and up to 50kVA	Nil	Nil	£350	£674	£674	£480	£480	£1,740	£390	£310	£300	£674	£674	£613	N/A	N/A
	Connection of other generation at LV greater than 50kVA	Nil	Nil	£350	£922	£922	£540	£540	£4,480	£400	£460	£470	£922	£922	£993	N/A	N/A
	Connection of generation at HV up to 250kVA	£1,050	£1,050	£2,000	£1,140	£1,140	£810	£810	£4,730	£2,000	£1,800	£1,790	£1,140	£1,140	£1,585	0.66	0.66
	Connection of generation at HV greater than 250kVA and up to 1MVA	£3,150	£3,150	£2,000	£1,140	£1,140	£990	£990	£5,970	£3,210	£2,750	£2,810	£1,140	£1,140	£2,275	1.38	1.38
	Connection of generation at HV greater than 1MVA	£5,250	£5,250	£2,000	£1,334	£1,334	£1,540	£1,540	£6,970	£5,610	£5,150	£5,410	£1,334	£1,334	£3,389	1.55	1.55
	Connection of generation at EHV up to 10MVA	£6,825	£6,825	£6,000	£2,937	£2,937	POA	POA	POA	POA	POA	POA	£2,937	£2,937	£4,485	1.52	1.52
	Connection of generation at EHV greater than 10MVA £6,825	£6,825	£6,825	£6,000	£3,386	£3,386	POA	POA	POA	POA	POA	POA	£3,386	£3,386	£4,742	1.44	1.44
	Connection of generation greater than 50MVA	£7,875	£7,875	£7,500	£4,736	£4,736	POA	POA	POA	POA	POA	POA	£4,736	£4,736	£6,028	1.31	1.31

Section E - CIC Design Approval of the Contestable Work		SHEPD	SEPD	SP	WPD East	WPD West	Northern Power North East	Northern Power Yorkshire	Electricity NW	UKPN London	UKPN Eastern	UKPN South East	WPD South West	WPD South Wales	DNO Average	SHEPD Vs DNO Avg	SEPD Vs DNO Avg
Activity	Description																
Demand	Single LV Service Demand ConnectionA	£263	£263	£250	£53	£53	£50	£50	£50	£15	£16	£19	£53	£53	£91	2.88	2.88
	2 to 4 services single phase LV, no extension to LV networkB	£263	£263	£250	£53	£53	£50	£50	£50	£151	£151	£133	£53	£53	£121	2.17	2.17
	1-4 Premises, single phase LV, extension to the LV networkC required	£263	£263	£250	£106	£106	£80	£80	£110	£151	£151	£133	£106	£106	£147	1.79	1.79
	1 three phase LV service with whole current metering to a single PremisesD	£263	£263	£250	£53	£53	£50	£50	£50	£15	£16	£19	£53	£53	£91	2.88	2.88
	Other LV connection(s) with a total load of up to 100kVA	£263	£263	£600	£119	£119	£240	£240	£330	£170	£150	£190	£119	£119	£225	1.17	1.17
	Other LV connection(s) with a total load greater than 100kVA and up to 250kVA LV	£420	£420	£600	£178	£178	£240	£240	£650	£290	£280	£320	£178	£178	£321	1.31	1.31
	Connection greater than 250kVA and up to 1MVA at LV	£630	£630	£750	£238	£238	£270	£270	£980	£930	£920	£950	£238	£238	£560	1.12	1.12
	Connection up to 250kVA at HV	£630	£630	£1,000	£357	£357	£360	£360	£540	£290	£280	£320	£357	£357	£449	1.4	1.4
	Connection greater than 250kVA and up to 1MVA at HV	£788	£788	£7,000	£357	£357	£360	£360	£1,300	£930	£920	£950	£357	£357	£1,140	0.69	0.69
	Connection greater than 1MVA and up to 3MVA at HV	£788	£788	£2,500	£475	£475	£450	£450	POA	£2,630	£2,620	£2,650	£475	£475	£1,231	0.64	0.64
	Connection greater than 3MVA and up to 10MVA at HV	£788	£788	£5,000	£615	£615	£720	£720	POA	£3,060	£3,040	£3,080	£615	£615	£1,638	0.48	0.48
	Connection greater than 3MVA and up to 10MVA at EHV	£1,313	£1,313	POA	£987	£987	POA	POA	POA	£3,060	£3,040	£3,080	£987	£987	£1,750	0.75	0.75
	Connection greater than 10MVA and up to 50MVA	£2,625	£2,625	POA	£1,499	£1,499	POA	POA	POA	POA	POA	POA	£1,499	£1,499	£1,874	1.4	1.4
	Connection greater than 10MVA and up to 50MVA	£5,250	£5,250	POA	£1,799	£1,799	POA	POA	POA	POA	POA	POA	£1,799	£1,799	£2,949	1.78	1.78
Generation	Connection of a single Small Scale Embedded Generator	£263	£263	£250	£119	£119	N/A	N/A	£50	£15	£16	£19	£119	£119	£123	2.14	2.14
	Connection of other generation at LV up to 20kVA not covered by the above	£263	£263	£250	£238	£238	£240	£240	£110	£100	£80	£120	£238	£238	£201	1.31	1.31
	Connection of other generation at LV greater than 20kVA and up to 50kVA	£263	£263	£250	£238	£238	£240	£240	£110	£120	£1,100	£150	£238	£238	£284	0.93	0.93
	Connection of other generation at LV greater than 50kVA	£525	£525	£250	£323	£323	£360	£360	£430	£250	£240	£270	£323	£323	£346	1.52	1.52
	Connection of generation at HV up to 250kVA	£788	£788	£1,000	£323	£323	£360	£360	£870	£290	£280	£320	£323	£323	£488	1.61	1.61
	Connection of generation at HV greater than 250kVA and up to 1MVA	£788	£788	£2,500	£387	£387	£360	£360	£1,090	£1,100	£1,080	£1,120	£387	£387	£826	0.95	0.95
	Connection of generation at HV greater than 1MVA	£788	£788	£2,500	£588	£588	£720	£720	POA	£3,100	£3,080	£3,120	£588	£588	£1,431	0.55	0.55
	Connection of generation at EHV up to 10MVA	£1,575	£1,575	POA	£1,287	£1,287	POA	POA	POA	POA	POA	POA	£1,287	£1,287	£1,383	1.14	1.14
	Connection of generation at EHV greater than 10MVA £6,825	£1,575	£1,575	POA	£1,499	£1,499	POA	POA	POA	POA	POA	POA	£1,499	£1,499	£1,524	1.03	1.03
	Connection of generation greater than 50MVA	£2,100	£2,100	POA	£2,099	£2,099	POA	POA	POA	POA	POA	POA	£2,099	£2,099	£2,099	1	1

SECTION F1 Small Services covered by Quotation Accuracy Scheme			SHEPD	SEPD	SP	WPD East	WPD West	Northern Power North East	Northern Power Yorkshire	Electricity NW	UKPN London	UKPN Eastern	UKPN South East	WPD South West	WPD South Wales	DNO Average	SHEPD Vs DNO Avg	SEPD Vs DNO Avg
Activity	Description	Factors																
Single phase service	Single phase service, from a passing main, including cable, mains service joint, excavate and backfill joint hole, (excavate to site boundary*), and termination. Service cable length up to 5 metres. Duct within site boundary installed by third party. Inclusive of liaison with highways authority, where necessary.	Same side service in typical tarmac footpath.	£1,024	£980	£2,466	£1,098	£1,040	£750	£750	£1,155	£2,550	£1,200	£1,200	£1,147	£1,029	£1,261	0.81	0.78
		Same side service in typical grass verge.	£478	£458	£1,650	£823	£763	£663	£675	£966	£2,000	£1,000	£950	£704	£675	£908	0.53	0.5
		Cross road service in typical carriageway	£4,533	£4,338	£4,093	£1,674	£1,625	£2,773	£2,800	£2,372	£3,175	£2,000	£2,050	£1,582	£1,560	£2,659	1.7	1.63
		Traffic Management Fees	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	N/A	N/A	N/A
	Additional metres of service cable	In typical tarmac footpath.	£82	£79	£134	£72	£67	£73	£70	£77	£160	£93	£75	£66	£59	£85	0.97	0.92
		In typical grass verge	£30	£29	£59	£34	£39	£45	£40	£77	£65	£53	£40	£27	£29	£43	0.69	0.66
		In typical carriageway	£280	£268	£244	£185	£255	£188	£183	£128	£350	£150	£175	£151	£158	£209	1.34	1.28
	Duct laid by ourselves		£8	£8	£8	£138	£147	N/A	N/A	£17	£18	£14	£8	£115	£123	£55	0.15	0.15
Three phase service	Three phase service, from a passing main, including service cable, mains service joint, excavate and backfill joint hole, (excavate to site boundary*) and termination. Service cable length up to 5 metres. Duct installed by third party. Inclusive of liaison with highways authority, where necessary.	Same side service in typical tarmac footpath.	£997	£954	£2,681	£1,263	£1,206	£860	£880	£1,492	£2,750	£1,300	£1,450	£1,312	£1,194	£1,411	0.71	0.68
		Same side service in typical grass verge.	£445	£425	£1,799	£983	£923	£738	£735	£1,492	£2,250	£1,175	£1,200	£864	£335	£1,028	0.43	0.41
		Cross road service in typical carriageway	£4,593	£4,395	£4,156	£1,844	£1,829	£2,823	£2,830	£2,595	£3,350	£2,000	£2,400	£1,745	£1,730	£2,791	1.65	1.57
		Traffic Management Fees	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	N/A	N/A	N/A
	Additional metres of three phase service cable	In typical tarmac footpath.	£84	£80	£146	£74	£68	£73	£70	£77	£160	£93	£75	£68	£61	£87	0.96	0.92
		In typical grass verge	£35	£33	£71	£38	£41	£45	£40	£77	£65	£53	£40	£29	£31	£46	0.75	0.72
		In typical carriageway	£219	£209	£255	£142	£142	£188	£183	£128	£350	£150	£175	£122	£123	£183	1.19	1.14
	Duct laid by ourselves		£8	£8	£22	£138	£149	N/A	N/A	£17	£18	£14	£8	£115	£122	£56	0.14	0.14
Extension of low voltage mains	Low voltage mains cable. Excavate 10 metres of ground and install LV mains cable and re-instate to match existing surface, includes straight joint onto main and bottle end.	Trench or duct by others (including backfill &	£863	£826	£1,099	£692	£687	£1,680	£1,623	£732	£1,900	£1,100	£1,200	£693	£689	£1,060	0.81	0.78
		In typical tarmac footpath.	£2,921	£2,795	£3,270	£2,328	£2,191	£2,505	£2,363	£1,340	£4,250	£2,350	£2,250	£2,394	£2,127	£2,545	1.15	1.1
		In typical grass verge	£1,500	£1,435	£1,990	£1,580	£1,489	£1,913	£1,818	£967	£3,100	£1,600	£1,600	£1,310	£1,284	£1,660	0.9	0.86
		In typical carriageway	£4,392	£4,203	£4,948	£3,729	£3,582	£3,963	£3,748	£1,847	£4,850	£2,850	£3,050	£3,434	£3,432	£3,694	1.19	1.14
		Traffic Management Fees	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	POA	POA	POA	Nil	Nil	N/A	N/A	N/A
	Additional metres of LV mains cable	Trench or duct by others (including backfill &	£41	£39	£22	£18	£32	£33	£28	£17	£53	£30	£35	£27	£27	£31	1.33	1.27
		In typical tarmac footpath.	£128	£122	£80	£75	£91	£73	£70	£77	£160	£100	£85	£84	£78	£94	1.36	1.3
		In typical grass verge	£78	£74	£39	£35	£58	£45	£45	£43	£80	£58	£50	£44	£47	£53	1.45	1.38
		In typical carriageway	£259	£248	£170	£128	£181	£193	£190	£128	£350	£160	£175	£142	£144	£190	1.36	1.3
	Duct laid by ourselves		£8	£8	£29	£23	£232	N/A	N/A	£17	£18	£14	£8	£115	£123	£54	0.15	0.15
Overhead service	Overhead connection to existing overhead line including installation of new overhead service with pole termination to connect to overhead network, up to 10 metres. Pole at site boundary and assumes no additional poles installed.	Single phase	N/A	N/A	N/A	£518	£516	£475	£435	£697	N/A	£1,300	£1,300	£507	£512	£695	N/A	N/A
		Three phase	N/A	N/A	N/A	£865	£863	£593	£585	£1,025	N/A	£1,300	£1,300	£857	£859	£916	N/A	N/A

SECTION F2 Service Alterations																		
Activity	Description	Factors	SHEPD	SEPD	SP	WPD East	WPD West	Northern Power North East	Northern Power Yorkshire	Electricity NW	UKPN London	UKPN Eastern	UKPN South East	WPD South West	WPD South Wales	DNO Average	SHEPD Vs DNO Avg	SEPD Vs DNO Avg
Single phase service alteration	Single phase service including service cable, joint and termination. Service cable length up to 5 metres.	Service alteration in customer land.	£385	£330	£606	£580	£582	£608	£588	£983	£1,950	£1,050	£775	£579	£580	£738	0.52	0.45
		Same side service alteration in typical grass	£485	£442	£1,915	£1,096	£1,117	£848	£833	£1,112	£2,350	£975	£725	£1,066	£1,051	£1,078	0.45	0.41
		Same side service alteration in typical tarmac	£983	£921	£3,059	£1,244	£1,224	£1,095	£1,083	£1,112	£2,725	£1,200	£950	£1,239	£1,210	£1,388	0.71	0.66
		Cross road service alteration in typical	£4,090	£3,916	£4,677	£1,363	£1,325	£2,673	£2,643	£2,282	£3,475	£1,800	£1,900	£1,331	£1,322	£2,523	1.62	1.55
	Additional metres of service cable	Customer's land	£12	£11	£17	£11	£12	£50	£58	£60	£12	£12	£12	£11	£11	£22	0.52	0.5
		In typical grass verge (including excavation,	£32	£31	£77	£22	£33	£50	£45	£67	£65	£53	£33	£26	£26	£43	0.75	0.72
		In typical tarmac footpath (including	£74	£71	£175	£62	£59	£73	£70	£67	£160	£93	£63	£59	£56	£83	0.89	0.86
		In typical carriageway (including excavation,	£352	£337	£317	£114	£114	£188	£188	£118	£350	£150	£200	£103	£104	£203	1.74	1.66
Three phase service alteration (60kVA)	Three phase service including service cable, joint and termination. Service cable length up to 5 metres. Duct installed by third party.	Service alteration in customer land.	£470	£415	£752	£690	£689	£988	£998	£963	£1,950	£500	£775	£686	£687	£812	0.58	0.51
		Same side service alteration in typical grass	£575	£515	£2,021	£1,194	£1,214	£1,158	£1,153	£1,072	£2,725	£975	£725	£1,164	£1,149	£1,203	0.48	0.43
		Same side service alteration in typical tarmac	£0	£0	£3,205	£1,342	£1,322	£1,263	£1,288	£1,072	£3,325	£1,325	£950	£1,337	£1,307	£1,364	0	0
		Cross road service alteration in typical	£4,284	£4,099	£5,035	£1,460	£1,422	£2,773	£2,643	£1,467	£3,925	£2,100	£1,900	£1,428	£1,419	£2,612	1.64	1.57
	Additional metres of three phase service cable	Customer's land	£18	£17	£29	£12	£12	£50	£45	£57	£12	£12	£12	£12	£12	£23	0.77	0.72
		In typical grass verge (including excavation,	£39	£37	£93	£30	£34	£50	£45	£67	£65	£53	£33	£27	£27	£46	0.84	0.8
		In typical tarmac footpath (including	£80	£76	£191	£62	£59	£73	£70	£67	£160	£93	£63	£61	£57	£85	0.93	0.89
		In typical carriageway (including excavation,	£359	£343	£332	£116	£116	£188	£188	£113	£350	£150	£200	£105	£106	£205	1.75	1.67
Overhead service alteration	Overhead service alteration, including overhead line connection up to 10 metres. Assumes no additional pole required.	Single phase	£327	£313	N/A	£776	£779	£778	£780	£1,340	N/A	£500	£500	£774	£775	£695	0.47	0.45
		Three phase	£772	£739	N/A	£1,160	£1,158	£925	£893	£1,340	N/A	£500	£525	£1,153	£1,154	£938	0.82	0.79
	Overhead to underground service alteration, including removal of overhead service and installation of new underground service with pole termination to connect to overhead network, up to 5 metres.	Single phase	£2,900	£2,775	£556	£987	£985	£1,068	£1,035	£1,093	N/A	£650	£750	£977	£980	£1,229	2.36	2.26
		Three phase	£3,210	£3,072	£724	£1,399	£1,396	£1,175	£1,205	£1,093	N/A	£700	£750	£1,389	£1,391	£1,459	2.2	2.11

SECTION F3 Connection Charge																		
Activity	Description	Factors	SHEPD	SEPD	SP	WPD East	WPD West	Northern Power North East	Northern Power Yorkshire	Electricity NW	UKPN London	UKPN Eastern	UKPN South East	WPD South West	WPD South Wales	DNO Average	SHEPD Vs DNO Avg	SEPD Vs DNO Avg
Single phase service, up to 100A (20kVA)	One single phase service, from a passing or extended main, including service cable, mains service joint, and termination. Service cable length up to 5 metres per service. Duct installation, excavation and backfill joint hole undertaken by third party.	1	£349	£334	£571	£277	£488	£720	£730	£1,190	£1,150	£600	£675	£382	£383	£604	0.58	0.55
	Multiple single phase services, from an extended main, including service cable, mains service joints, and termination. Service cable length up to 5 metres per service. Duct installation, excavation and backfill joint hole undertaken by third party.	4	£750	£718	£501	£412	£721	£1,205	£1,308	£1,190	£3,250	£950	£1,600	£564	£567	£1,057	0.71	0.68
	Excavation and backfill of joint hole	1	£1,163	£1,113	£1,208	£133	£370	£225	£225	£658	£975	£425	£350	£338	£275	£574	2.03	1.94
	Additional metres of service cable	1m	£4	£4	£7	£9	£9	£15	£15	£77	£152	£77	£77	£8	£9	£35	0.11	0.11
Three phase service up to 100A per phase (60kVA)	A single three phase service, from a passing main, including service cable, mains service joint, and termination. Service cable length up to 5 metres per service. Duct installation, excavation and backfill joint hole undertaken by third party.	1	£554	£520	£678	£456	£455	£778	£850	£1,532	£1,500	£650	£775	£453	£454	£743	0.75	0.7
	Excavation and backfill of joint hole	1	£1,163	£1,113	£1,208	£325	£269	£230	£230	£658	£975	£425	£350	£338	£275	£581	2	1.91
	Additional metres of three phase service cable	1m	£18	£17	£7	£12	£11	£15	£15	£77	£152	£78	£83	£10	£11	£39	0.45	0.43
Three phase service up to 200A per phase (120kVA)	A single three phase service, from a passing main, including service cable, mains service joint, and termination. Service cable length up to 5 metres per service. Duct installation, excavation and backfill joint hole undertaken by third party.	1	£1,761	£1,685	£678	£2,497	£2,496	£2,475	£2,505	£3,492	£2,500	£1,950	£1,875	£2,493	£2,494	£2,223	0.79	0.76
	Excavation and backfill of joint hole	1	£1,163	£1,113	£1,208	£335	£298	£548	£533	£658	£975	£425	£350	£333	£293	£633	1.84	1.76
	Additional metres of three phase service cable	m	£31	£29	£17	£23	£23	£28	£23	£108	£155	£100	£95	£22	£22	£52	0.59	0.56
Three phase service up to 300A per phase (180kVA)	A single three phase service, from a passing main, including service cable, mains service joint, and termination. Service cable length up to 5 metres per service. Duct installation, excavation and backfill joint hole undertaken by third party.	1	£1,683	£1,113	£1,670	£2,384	£2,383	£2,498	£2,505	£3,477	£2,800	£2,075	£1,975	£2,380	£2,381	£2,256	0.75	0.49
	Excavation and backfill of joint hole	1	£1,163	£1,940	£1,210	£1,335	£298	£548	£533	£657	£975	£425	£350	£352	£293	£775	1.5	2.5
	Additional metres of three phase service cable	1m	£42	£41	£18	£27	£27	£28	£28	£108	£155	£100	£95	£26	£26	£55	0.76	0.73
Three phase service up to 300A per phase (240kVA)	A single three phase service, from a passing main, including service cable, mains service joint, and termination. Service cable length up to 5 metres per service. Duct installation, excavation and backfill joint hole undertaken by third party.	1	£2,028	£1,610	£1,877	£2,384	£2,383	£2,498	£2,528	£3,492	£2,800	£2,075	£1,975	£2,380	£2,381	£2,339	0.87	0.69
	Excavation and backfill of joint hole	1	£1,163	£1,113	£1,210	£335	£298	£548	£533	£658	£975	£425	£350	£333	£293	£633	1.84	1.76
	Additional metres of three phase service cable	1m	£48	£46	£25	£27	£27	£28	£28	£108	£155	£100	£95	£26	£26	£57	0.84	0.8
Three phase service over 240 kVA	A single three phase service, from a suitable source, including mains or service cable terminations in heavy duty cut-out. Service cable length up to 5 metres per service. Duct installation, excavation and backfill joint hole undertaken by third party.	1	£2,390	£2,288	£1,943	£2,431	£2,430	£2,498	£2,525	£3,158	£2,850	£2,075	£1,975	£2,426	£2,427	£2,417	0.99	0.95
	Excavation and backfill of joint hole	1	£1,163	£1,113	£1,210	£335	£298	£548	£533	£658	£975	£425	£350	£352	£293	£635	1.83	1.75
	Additional metres of three phase service cable	m	£50	£48	£31	£27	£27	£28	£28	£108	£155	£100	£95	£25	£25	£57	0.87	0.83
Services to Multi-occupied Premises	Installation of a multi-way cut-out up to 10 way from a passing or extended main, including cables for adjacent communal metering, mains service joint, and termination. Service cable length up to 5 metres per service. Duct installation, excavation and backfill joint hole undertaken by third party.	1	£2,245	£2,148	£3,548	£2,336	£2,335	£2,695	£2,760	£3,492	£2,000	£2,650	£2,225	£2,332	£2,333	£2,546	0.88	0.84
	Installation of a multi-way cut-out of greater than 10 way from a passing or extended main, including cables for adjacent communal metering, mains service joint, and termination. Service cable length up to 5 metres per service. Duct installation, excavation and backfill joint hole undertaken by third party.	1	£2,856	£2,733	£2,311	£3,372	£3,371	N/A	N/A	£3,492	£2,150	£4,900	£3,250	£3,368	£3,369	£3,197	0.89	0.85
	Installation of rising mains and laterals excluding civils and containment work.	1	£546	£523	£178	£47	£47	N/A	N/A	£108	N/A	£38	£30	£47	£47	£161	3.39	3.25
	Excavation and backfill of joint hole	1	£1,163	£1,113	£1,022	£335	£298	£550	£533	£657	£975	£425	£350	£352	£293	£620	1.87	1.79
	Additional metres of three phase service cable	1m	£50	£48	£9	£27	£27	£28	£28	£108	N/A	£15	£12	£26	£26	£33	1.5	1.42

SECTION F4 Unmetered Supplies																		
Activity	Description	Factors	SHEPD	SEPD	SP	WPD East	WPD West	Northern Power North East	Northern Power Yorkshire	Electricity NW	UKPN London	UKPN Eastern	UKPN South East	WPD South West	WPD South Wales	DNO Average	SHEPD Vs DNO Avg	SEPD Vs DNO Avg
Unmetered Supplies	New connection up to 5 metres on same side of road excluding reinstatement	1	£387	£370	£888	£394	£396	£628	£643	£1,003	£600	£375	£525	£391	£391	£538	0.72	0.69
	Disconnection excluding reinstatement	1	£118	£113	£554	£161	£163	£468	£473	£580	£200	£85	£150	£161	£161	£260	0.45	0.43
	Transfer excluding reinstatement	1	£376	£360	£741	£291	£291	£533	£538	£525	£375	£225	£300	£288	£288	£394	0.95	0.91
	Additional metres of services cable	m	£12	£11	£120	£13	£13	£15	£15	£14	£15	£13	£13	£12	£12	£21	0.54	0.52
	Reinstatement only	m	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	N/A	N/A	N/A
Unmetered Supplies	New connection up to 5 metres on same side of road including excavation and reinstatement	#	£693	£663	£2,156	£1,169	£942	£668	£693	£1,003	£1,150	£755	£925	£1,085	£1,090	£999	0.69	0.66
	New connection up to 10 metres on other side of road including excavation and	#	£4,013	£3,840	£2,742	£1,438	£1,472	£3,353	£3,323	£2,077	£2,550	£2,000	£1,775	£1,384	£1,427	£2,415	1.66	1.59
	Disconnection including excavation and reinstatement	#	£722	£691	£1,617	£402	£408	£625	£635	£578	£450	£325	£375	£456	£427	£593	1.22	1.16
	Transfer or reconnection up to 5 metres including excavation and	#	£679	£650	£2,007	£727	£694	£748	£763	£878	£800	£550	£475	£785	£740	£807	0.84	0.81
	Additional metres of services cable including excavation and reinstatement	m	£85	£82	£146	£55	£51	£73	£15	£82	£130	£95	£95	£51	£54	£78	1.09	1.05
	Rent-a-Jointer	day	£937	£927	£781	POA	POA	POA	POA	£1,278	POA	POA	POA	POA	POA	£980	0.96	0.94
	Administrative charge for ICP work	per lamp	£6	£5	POA	N/A	N/A	N/A	N/A	£5	POA	POA	POA	N/A	N/A	£5	1.05	1.01

Example Quote Letter – Demand HV

(Additional example quotations provided as separate file)

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Our reference: DZJ185
Your reference:

Scottish and Southern Energy
Power Distribution

200 Ashgrove Road West
Aberdeen
AB16 5NY

01224 [redacted]
01224 [redacted]
[redacted]@sse.com
www.ssepd.co.uk

[redacted]

11 September 2013

Dear [redacted],

New development at

Thank you for your enquiry. I am pleased to provide you with my quotation for the new electricity connection at the above development. My proposals are subject to our obtaining all necessary legal consents to carry out the work as planned, including any consent required from third parties.

£ 27,707.65

This all works charge has been quoted inc. VAT (as applicable) and is valid for 30 days from the date of this letter.

You can see a full breakdown of these calculations on the next page. Please note that we will not be able to schedule works until we have received your acceptance, any Connection Agreements and your full payment for the works detailed in this quotation.

The quotation has been calculated based on the information provided to date but please be aware that we will charge for any additional work required that has not been included in this schedule of works. Therefore, it's really important to make sure you check the quote thoroughly to avoid incurring any further charges. In addition to this, it is important to note that the price stated in this offer is valid for acceptance for 30 days. This price will then be valid for one year from the date of acceptance. All work must be completed within this year, at which point we will reserve the right to revise the terms of our contract with you, unless any delays to the completion of work have been within our control.

I have calculated this quotation on the assumption that you will carry out all of the excavation and backfilling of the cable trenches required for all works on and off the land in your clients' ownership. Please note you must comply with the requirements for any works in the public highway as detailed in the attached Site Information and Customer Requirements document.

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I have enclosed with this letter an information pack, which I hope will prove useful. I trust the information I have provided is of assistance and if I can help further please do not hesitate to contact me. Alternatively, you may find answers to any questions you may have on our web site www.ssepd.co.uk.

Yours sincerely,

Euan Davidson

Connections Designer

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Scottish and Southern Energy Power Distribution

Your all works quotation explained

What you need to do

- You are required to ensure that all works on your own electrical installations are carried out by a qualified electrical contractor. Statutory qualification schemes, for Building Regulation purposes, are currently run by NICEIC, SELECT, ECA, NAPIT, ELECSA, British Standards Institution and BRE Certification.
- Please enclose either a cheque or, if paying by Bank Transfer, make payment before acceptance.

Please note

- Scottish and Southern Energy Power Distribution plc is the Distribution Network Operator (DNO) for the area in which your project is located. There are Independent Connection Providers (ICPs) and Independent Distribution Network Operators (IDNOs) who may be able to provide you with an alternative quotation to carry out some of this work. Please refer to www.lloydsregister.co.uk for further details
- This quotation serves as a counter-notice under clause 16A (5) of the Electricity Act 1989. Should you have any concerns relating to this quotation please contact us using the details on the first page of this letter and we will try to resolve any issues directly with you. If you still then have concerns, the Act allows for any unresolved disputes relating to the provision of this quotation to be determined by the Gas and Electricity Markets Authority.
- LV refers to our Low Voltage equipment used to connect domestic and small industrial/commercial customers to the electricity network.
- HV is our High Voltage network used to distribute electricity and supply larger industrial/commercial customers.
- EHV is our Extra High Voltage network used over longer distances to connect our major substations and, occasionally, to supply very large customer sites such as a large factory.

Description of connection charges

Install 1 substation	HV	£20,543.46
Lay approximately 30m of HV cable.		
Total connection charges		**£20,543.46**

Description of non-contestable charges

Assessment and design	£895.01
Wayleaves / legals	£750.00
Final connection	£901.24
Total non-contestable charges	**£2,546.25**

All works totals

Net total at standard rate VAT	£23,089.71
Net total at low rate VAT	£0.00
Net total at zero rate VAT	£0.00
VAT at standard rate (20%)	£4,617.94
VAT at low rate (5%)	£0.00
Total charge to applicant	**£27,707.65**

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Alternative quotation to provide non-contestable works only

Some of the works included in the above quotation are contestable and may be delivered by an Independent Connections Provider (ICP) or Independent Distribution Network Operator (IDNO). Such providers are listed at http://www.lloydsregister.co.uk/schemes/NERS/providers-list.aspx, and may be able to offer you alternative quotations for the work.

We must provide the non-contestable works if you choose to progress with this connection. Our quotation for the non-contestable works only is detailed below:

Description of non-contestable charges

Assessment and design	£895.01
Wayleaves / legals	£750.00
Final connection	£901.24
Total non-contestable charges	**£2,546.25**

Non-contestable works totals

Net total at standard rate VAT	£2,546.25
VAT at standard rate (20%)	£509.25
Total charge to applicant	**£3,055.50**

If you accept the non-contestable works quotation you must appoint an ICP or IDNO to deliver the contestable works and ensure your full connection is completed. We shall not be obliged to commence any works until you and your appointed ICP or IDNO have entered into an Adoption Agreement for the contestable works to be adopted by us. We will levy additional charges on your appointed ICP or IDNO to cover our costs in respect to adoption of the works adopted by us.

Our charge for the non-contestable works will remain valid for one year from the date of acceptance. All non-contestable works must be completed within this year, at which point we will reserve the right to revise the terms of our contract with you, unless any delays to the completion of the work have been within our control.

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Additional charges and assumptions

Connections

All on site excavation and reinstatement is to be carried out by the developer

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Job reference:DZJ185
Quotation for new supply at

Please indicate which quotation you wish to accept:

☐ All Works ☐ Non-Contestable Works Only

You can pay for your quotation via cheque or bank transfer. Please complete all the boxes on this form where applicable and return it with your cheque. If paying by bank transfer payment you must instruct your bank to transfer funds **before** returning this form to:

Scottish Hydro Electric Power Distribution plc
200 Ashgrove Road West
Aberdeen
AB16 5NY

Please make cheques payable toScottish Hydro Electric Power Distribution plc . If paying by bank transfer, please ask your bank to label your payment with the job reference as given above. Our bank account details are:

Account name:	Scottish Hydro Electric Power Distribution plc
Bank:	NatWest
Sort code:	60-17-21
Account number:	89543130
IBAN code:	GB55 NWBK 6017 2176 793877
UTR:	85621 10776
VAT registration number:	553 7696 03

Amount enclosed: £

Choose your method of payment:

☐ Cheque ☐ Bank Transfer

Please provide the payer's name and address, and sign the acceptance below.

PRINT payer's name and address:

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- The details supplied on this form will be used on any VAT receipt.
- If we receive your payment without this completed acceptance form, we will assume that you have accepted our terms and conditions, enclosed herewith.
- If you cancel your project before completion we will return any monies due minus an administration fee.
- If you accept our Non-Contestable Works quotation, you understand that we will not complete all of the connection works and you must appoint an Independent Connections Provider (ICP) or Independent Distribution Network Operator (IDNO) to provide your connection.

I accept your quotation and the terms and conditions enclosed.

Signed: _____ **Date:** _____

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Information pack

For your information, we have attached this pack which we hope you will find useful. This pack contains all of the information you should need relevant to the work for which you have been quoted. However, if you have any further questions at all, please don't hesitate to contact us.

Contents

Safety

When we carry out any job, Safety is our first priority. Our motto is, "We do it safely, or not at all". Please read the enclosed information carefully and if in any doubt, please ask us to explain.

Your connection details

This details what size (capacity) and voltage your connection(s) will be. It includes your Connection Agreement (if required), and advice on appointing a supplier, what you need to do to get a meter installed, positioning of your connection point and Earthing of your connection.

Your site requirements schedule

This gives details of any site works you will need to complete for us to meet your requirements. It includes what you need to know about cable routes and trenching. It also includes any special or unusual load you have requested to be included in your connection such as motors and welders.

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Safety

We ask you to take note of the following:-

In accordance with the Health & Safety Guidance Note GS6, you are required to take every precaution to ensure that cranes, tipper lorries, scaffolding, ladders and other plant employed on your works are kept at a safe distance from overhead electric lines and their supports and that such supports are not disturbed by excavations. Goal posts with height restriction will need to be placed at appropriate locations for vehicles passing underneath Scottish and Southern Energy Power Distribution's overhead lines.

In accordance with Health & Safety Executive Guidance Note HS (G) 47 care will also be necessary when digging in proximity to underground cables, particular if mechanical excavators are used.

Overhead lines, underground cables and other electrical plant must be regarded as being "live". Before commencing work in proximity to such plant written notification must be given to Scottish and Southern Energy Power Distribution.

If during the course of your works, any cable should be damaged by you/or your contractors, then this fact must be reported to our Emergency Service Centre on 0800 300 999 (Scottish Hydro Electric Power Distribution plc) immediately. The cost of any repairs will be fully rechargeable.

Locating cables on site

The drawings that I have enclosed with this quotation are not suitable for locating cables on site. To obtain the latest copies of our cable records please send a plan of the area in question together with your contact details to:

Mapping Services

Scottish and Southern Energy Power Distribution

P O Box 6206

BASINGSTOKE

RG24 8BW

Tel: 01256 337294

Fax: 01256 337295

Requesting details of any Scottish and Southern Energy Power Distribution plant and cables in the area. You must excavate hand-dug trial holes to establish the actual positions of all cables before any mechanical excavation works commence.

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Your connection details

Connection – XXXXkVA at 11,000volts

Please note, we will not energise the supply until you have the following agreements in place:

- **Supply Agreement with a Supplier**
- **Meter Operator Services Agreement with a Meter Operator**
- **Connection Agreement with ourselves (attached for signature and return)**

Please ensure the Connection Agreement is signed by whoever will be responsible for the associated charges and returned to Scottish and Southern Energy Power Distribution as soon as possible. The Connection Agreement must be received by us before work can progress.

The connection will be three phase, 11,000 Volts, alternating current at 50Hz, with a maximum capacity 3,000kVA. You will need to balance the electrical load evenly across all of the phases to avoid overloading.

Our system fault level varies with operating conditions, but the three phase symmetrical current will not exceed 20 kA rms. We recommend that your HV earthing system is connected to our network at the intake switch gear.

Under the Electricity at Work Regulations you must provide an emergency trip to disconnect all supplies to the site in an emergency. We have included the charges for installing this trip within our quotation. Please note this trip can only be reset on site by our staff.

How to get your meter

It is extremely important for you to note that your meters cannot be installed by Scottish and Southern Energy Power Distribution. Although Scottish and Southern Energy Power Distribution own the cables coming into the property **we are not an electricity supply company and we do not install the meters.** You must arrange a meter operating and supply contract with the Meter Operator and Supplier of your choice.

Meter Operator Services Agreement

Before we can provide you with a supply of electricity, as your anticipated demand for the supply exceeds 100kW, you must choose a Meter Operator to provide and operate metering equipment for you. Once you have chosen a Meter Operator you will need to arrange a Supply Agreement, with a Supplier of your choice.

Supply Agreement

Before we can energise your supply of electricity, you must appoint an Electricity Supplier and arrange a Supply Contract. Once you have chosen your preferred Supplier, you will need to contact them to register the Meter Point Administration Number (MPAN) associated with your new supply.

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What is an MPAN

- The MPAN(Meter Point Administration Number) is a unique number that identifies each electricity supply point.
- The MPAN is sometimes also called a Supply Number but it should not be confused with your customer reference number.
- **Every MPAN number must be registered with a Supplier before a meter can be connected and final energisation can take place.**

You will need to advise your Supplier who you have chosen to be your Meter Operator, Your Supplier will appoint them and arrange for them to attend, fit the meter(s), when you advise them your site is ready.

Once your metering equipment has been installed your Supplier will request our attendance to energised, we will not be able to energise the supply until we receive this request from your Supplier.

We are unable to give advice on a choice of Supplier; if you need advice or further information regarding electricity suppliers please visit the Consumer Direct at http://www.oft.gov.uk/consumer-advice/oft-and-cd.

Connection Agreement

This is a quotation for a maximum demand type of supply and is subject to you/your client entering into a Connection Agreement (attached) with Scottish and Southern Energy Power Distribution to accept responsibility for the available capacity charges based on 3,000kVA.

Your connection may be billed monthly and attract availability and demand charges as well as unit charges. You should discuss this with your Supplier prior to accepting this quotation to ensure that you fully understand the running charges.

If your demand increases beyond the agreed capacity (over a 3 month period) we will contact you as you are exceeding your authorised capacity which may result in further charges and may require further reinforcement to our network.

Earthing

Where supplies are provided at High Voltage, you must ensure that your High Voltage and Low Voltage earth systems meet statutory requirements and national standards. If a connection to the Scottish and Southern Energy Power Distribution High Voltage earth system is desired you must contact Scottish Hydro Electric Power Distribution plc and agree in writing how this will be done.

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Your site requirements schedule

Including any detailed requirements for our on-site works, what you need to know about cable routes and trenching and any special or unusual load you have requested to be connected such as motors and welders.

Scottish and Southern Energy Power Distribution Reference: **DZJ185**

Site address: XXXXXXXXX

Quotation date: 11 September 2013

This schedule gives details of the site works you will need to complete for us to meet your requirements. Please read this document carefully as any problems with these works may result in additional charges and/or delays. If you need any assistance please contact me.

When we attend to undertake our works you must ensure that any substation site/s, cable routes and any associated overhead line positions are clear of all encumbrances and ready for on site construction.

You are required to ensure that all works on your own electrical installation are carried out by an electrical contractor who is registered. For Government approved organisations that register electricians please refer to the Electrical Safety Council.

High Voltage connection responsibilities and obligations

The Electricity at Work Regulations 1989 requires any customer with a supply at HV to appoint a Competent Person of sufficient technical knowledge or experience to prevent danger or injury.

The Distribution Code requires Scottish and Southern Energy Power Distribution and HV connected customers to jointly establish the following:

- A Safety Management System for work at / across Ownership Boundaries
- Control Persons to operate the Safety Management System
- A Documentation System for inter-system safety precautions
- Authorisation of staff operating the Safety Management System
- Site Hazard Management Procedures
- An Ownership, Control, Operation and Maintenance Schedule
- Control Diagrams
- Control Log (12 months)
- Communications

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Part of these requirements will be met by use of a Joint Operating Agreement. This will consist of three parts:

- the first part is the formal signed agreement and details the procedures to be adopted
- the second part is either an Operational Diagram for simple networks showing the ownership, operation and control boundary, or in the case of more complex networks an Operational Diagram supported by a signed Site Responsibility Schedule. (In the case of networks where the boundaries for ownership, operation and/or control are at different positions, or are complex, then a separate Site Responsibility Schedule is required)
- the third part is an addendum which contains supporting information, e.g. contact telephone numbers, authorised persons, etc.

The Agreement will be completed and signatures obtained by our staff responsible for energising the new supply, who will also require a copy of the customer's HV network diagram.

Any changes which affect the Agreement, including changes to the customer's HV network, should be notified to Scottish and Southern Energy Power Distribution who will revise the Agreement as necessary.

Please note we will not be able to energise your connection until the Joint Operating Agreement is in place.

Cable routes and ducts

The proposed cable routes are shown on the draft site plan. Before we can lay our cables you will need to set out kerb lines, establish levels where roads or footpaths are not yet being constructed and, provide routes clear of obstructions or building materials. We will charge you for any subsequent alterations to our cables because of changes to the site layout.

You will need to install 150mm diameter road crossing ducts. These must be twin walled black polyethylene ducting such as Ridgiduct, complying with the current edition of the ENATS specification 12-24 or, internally glazed vitreous earthenware pipes specifically intended for electricity cables as specified in the current edition of BS 65.

Duct crossings must be laid at a depth of not less than 600mm and not more than 800mm below the finished road surface. The crossings should extend approximately 150mm beyond the kerb line on either side of the road and the ends should be blanked off to prevent ingress of spoil.

Please ensure that ducts provided for our use are spaced at least 1.0m clear of inspection pits and other duct lines to ensure working clearance at the ends of the ducts.

Trenching and inspection of cables

Where you are trenching for our cables, further information is available in our 'Mains Trenching Guide'. Please ask our Team Manager for a copy. This will ensure you meet our requirements and comply with the NJUG recommendations.

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We will blind our cables using suitable material - which must be free of sharp stones and rocks etc.. Where the excavated material is not suitable, you will need to provide us, free of charge, an alternative material for this purpose, typically sand. You will be responsible for backfilling and reinstatement of the trenches. Please contact our Team Manager a few days before you start works on site and he will visit and advise you on any additional requirements.

You are required to ensure that all works on your own electrical installation are carried out by an electrical contractor who is registered. For Government approved organisations that register electricians please refer to the Electrical Safety Council.

Removal of Scottish and Southern Energy Power Distribution equipment

Any equipment disconnected from our network is still our property. You may not remove any disconnected plant or cables without our prior agreement.

Harmonic distortion limits

The complete installation must strictly comply with the requirements detailed in the Electricity Association Engineering Recommendation G5/4 "Planning levels for harmonic voltage distortion and the connection of non-linear equipment to transmission systems and distribution networks in the United Kingdom". The connection must comply with the Stage 1, Stage 2 or Stage 3 limits as specified by G5/4.

Substation

To provide a connection we shall need a new distribution substation(s) at the location shown on the attached plan. The Customer shall provide a site nominally 4.0m x 4.0m for the substation and its equipment. The site must be suitably enclosed, secure and be kept in good condition. The subsoil must be capable of withstanding a load of 8.0 tonnes per square metre to avoid settlement.

It is important to avoid delays with the legal transactions. I will ask our Wayleave Officer to pursue this when I receive your acceptance, any Connection Agreements and payment of the quotation. Please ask your solicitor to write to the Wayleave Officer at this office as soon as possible, enclosing a copy of the Registered Title for the substation site where appropriate. We will be unable to start our substation site works until the legal formalities have been completed.

We need unrestricted access to the substation for operational purposes. Access may also be required, at a later stage, to enable additional connections from the substation to our network. Any future site security, both during and after completion of the development, must reflect this requirement.

Substation enclosure

You have elected to provide your own building, this must be fully enclosed with an external double door built by yourselves. Our outline requirements for this type of building can be found on our website and the address of the web page is http://www.ssepd.co.uk/Connections/UsefulDocuments/ down load pdf file “specification for

secondary 11kV substations used during the use of new connections". There are certain details that we will need to agree, e.g. the positioning of the door and location of cable ducts. Please let our Team Manager have copies of your plans for our approval.

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