Ephraim Mogale Local Municipality

SSEG APPLICATION CONTROL DOCUMENT

This Control Document is to be attached to each SSEG application.

Application from (name):		**Date:**
Check	☑	**Comments/Notes**
Electrical Services		
RECEIVE APPLICATION FORM		
1. All information completed?		
2. Other Departmental permissions obtained? (as necessary)		
3. Installer accreditation? (if required)		
4. NERSA license needed?		
5. Attachments supplied:		
5.1. NRS097-2-1 Test Certificate?		
5.2. Preliminary circuit diagram (if >100kVA)		
Notes/comments		Initial
EVALUATION OF APPLICATION AS PER NRS097-2-1 and NRS097-2-3 (Note: consult these standards where necessary or for queries)		
1. Basic compliance with NRS097-2-1:		
1.1. Earthing arrangements adequate?		
1.2. Test Certificate according to NRS097-2-1 adequate, from accredited test house? **OR** 1.3. On approved inverter list? **OR** 1.4. Other adequate protection information provided?		
1.5. If **storage** connected in parallel to EG: anti-islanding arrangements clear?		
Notes/comments		Initial
2. Basic compliance with NRS097-2-3 (if not compliant, specialist grid impact studies may be required):		
2.1. Total capacity (kVA) of system 350kVA or less?		

2.2. System is linked to LV network (not MV or HV)		
2.3. LV fault level at customer point of supply greater than 210A?		
Notes/comments		**Initial**
If on **a shared LV feeder**:		
2.3.1. Total kVA 25% of NMD / circuit breaker capacity (see relevant table in NRS097-2-3)		
2.3.2. Maximum of 20kVA? (supersedes 25% of NMD criteria)		
2.3.3. If >4.6kVA, is it balanced across phases?		
Notes/comments		**Initial**
If on a **dedicated LV feeder**		
2.3.4. Total kVA 75% of NMD		
2.3.5. Feeder cable limits voltage rise to 1% (see relevant NRS097-2-3 section)		
2.3.6. If >4.6kVA, is it balanced across phases? (if connection only single phase, up to 13.8kVA allowed on phase)		
Notes/comments		**Initial**
NETWORK CAPACITY CHECK		
3. Total SSEG generation on LV feeders <75% of MV/LV transformer rating?		
4. Total SSEG generation on all feeders <15% of MV feeder peak load?		
Notes/comments		**Initial**
5. If above checks OK, notify customer to proceed		
6. If above checks **not OK**, either:		
6.1. Request further information from customer, **OR** 6.2. Advise customer on SSEG system that would be acceptable (e.g. smaller system), **OR** 6.3. Inform customer that grid impact study required (and request meeting to discuss requirements)		
Notes/comments		**Initial**

IF GRID IMPACT STUDY REQUIRED: On completion of Study:		
7. Grid impact study indicate that generator installation can proceed?		
Notes/comments		Initial
8. Grid impact study indicate that generator installation can proceed?		
9. Customer notified accordingly		
Notes/comments		Initial

If installation to proceed, install METER, update records:		
10. Install bi-directional meter or check that is installed		
Notes/comments		Initial
11. Capture SSEG on database		
Notes/comments		Initial

Installation takes place. Customer submits completed Commissioning Form		
Commissioning form assessment:		
12. All required information completed?		
13. kVA and key component make and model same as Application Form?		
14. Loss of mains test performed?		
15. (if parallel storage installed) Anti-islanding arrangements inspected?		
16. Safety labels checked in accordance with NRS097-2-1		
17. Signoff adequate?		
18. Attachments all present:		
18.1. Final circuit diagram		
18.2. NRS097-2-1 Test Certificate (if required)		
18.3. Electrical CoC		
Notes/comments		Initial
If all OK: Activate TARIFF, Notify Customer, Update Records		
19. Update generator info on database		
Notes/comments		Initial

20. Activate SSEG tariff for customer			
Notes/comments			Initial
FINALISATION:			
21. Check that meter installed			
22. Check that SSEG tariff activated			
23. Inform customer that generation may proceed			
24. Close off process, archive			
Notes/comments			Initial
End			