Suruhanjaya Tenaga Energy Commission **ELECTRICAL** SAFETY **MANAGEMENT** PLAN & **PROGRAMME**

SEMINAR MEMPERTINGKATKAN KESELAMATAN ELEKTRIK SECARA BERKESAN
-HOTEL PROMENADE, TAWAU SABAH17 JULIAI 2018

-IFFAH HANNAH MULUKJABATAN KAWALSELIA KESELAMATAN ELEKTRIK
SURUHANJAYA TENAGA



SCOPE





FACTS & STATISTICS

CAUSES

Improper installation & maintenance

32%

Failure to practice safety work procedures

30.5%

FACTS & STATISTICS

LOCATION

Non-domestic electrical installations

26%

Residential premises

15.7%



NON-DOMESTIC ELECTRICAL INSTALLATION SAFETY CODE





SAFETY
MANAGEMENT
PLAN AND PROGRAMME

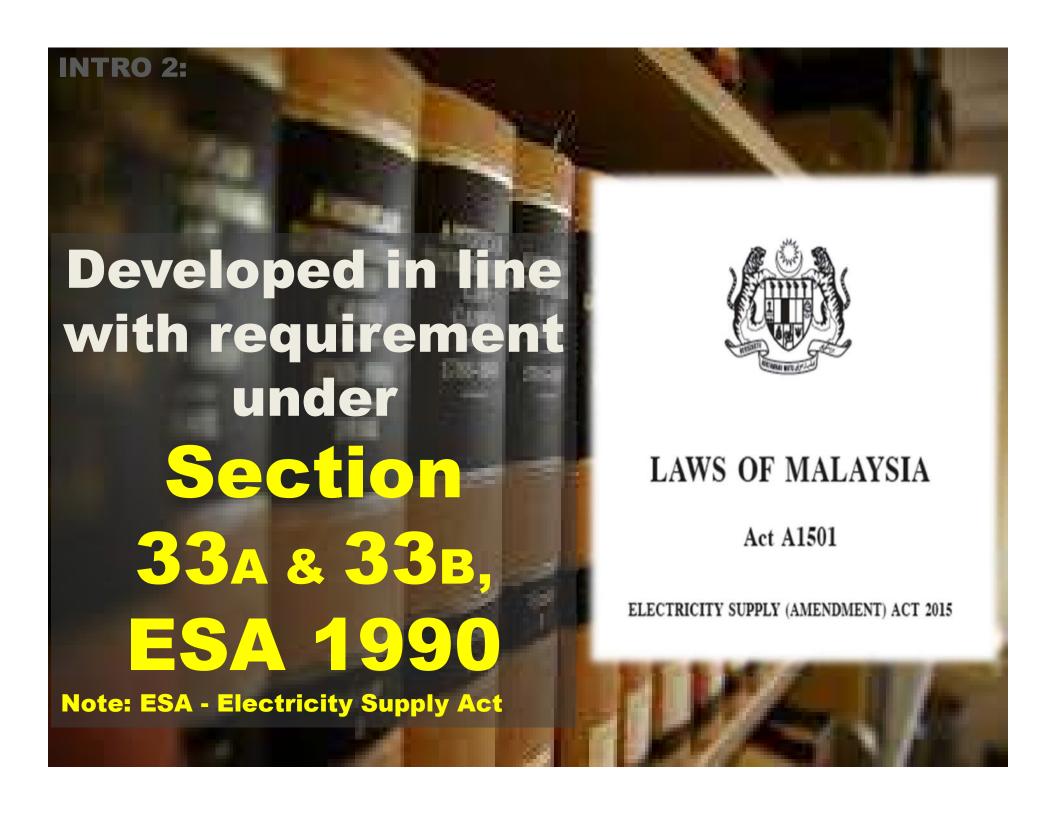


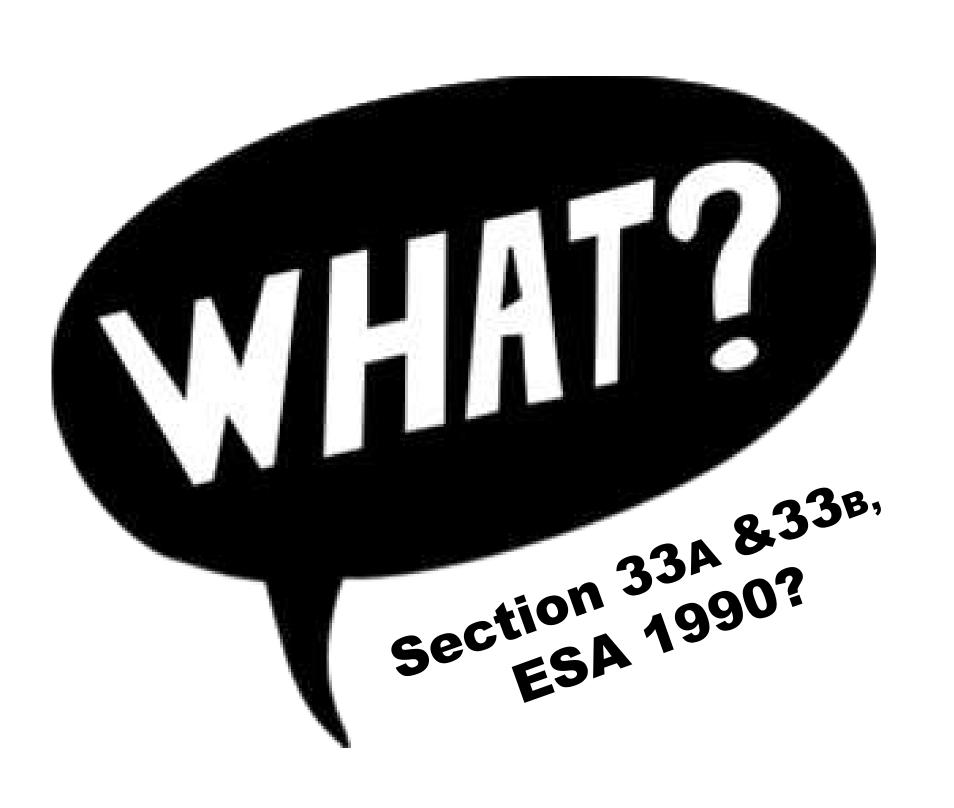
INTRO 1:

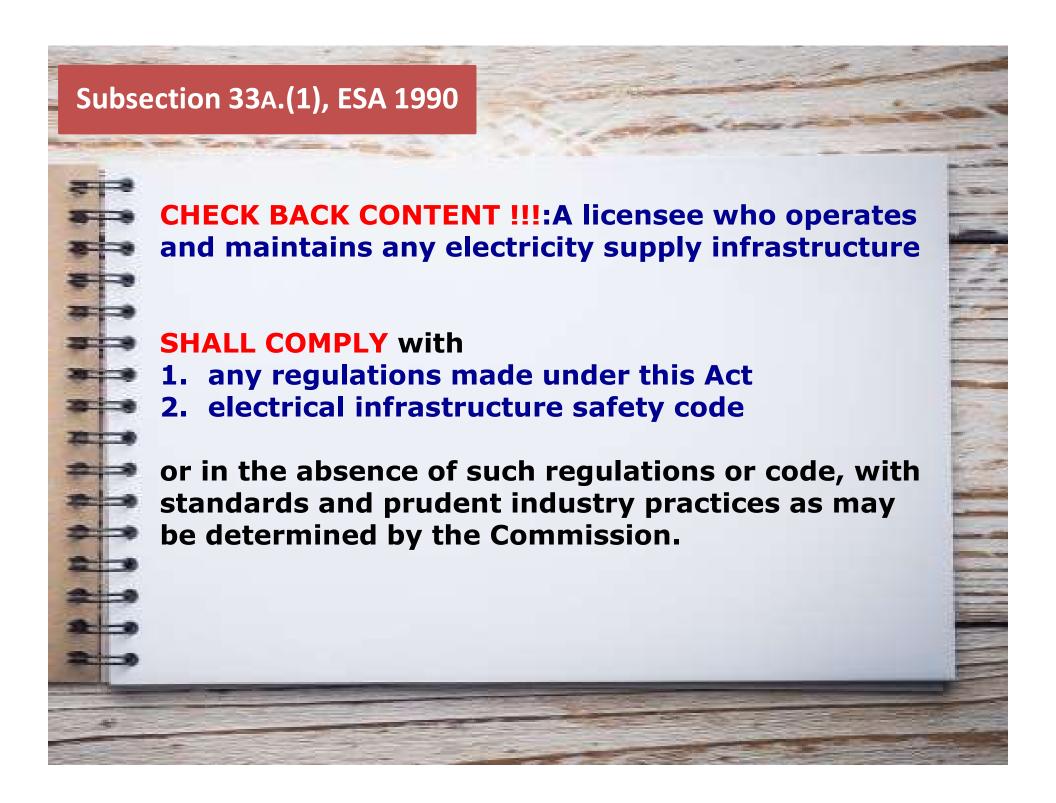
Safety Management System (SMS) is a framework:

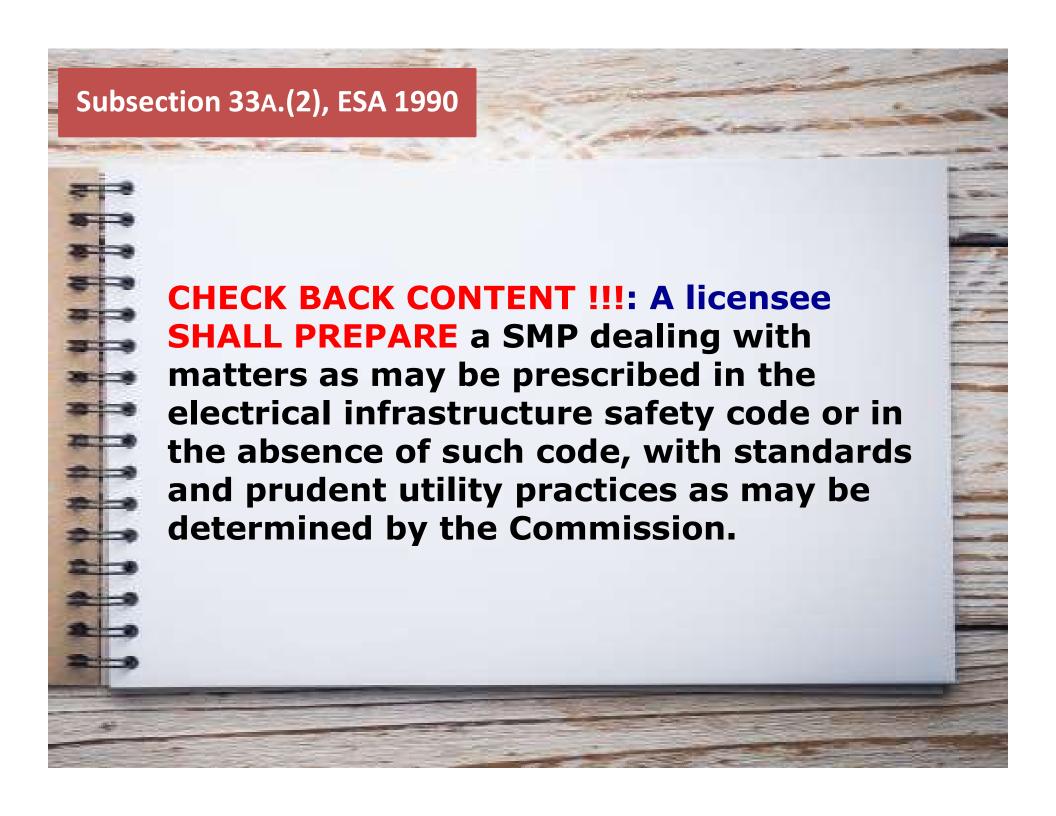
- **✓ PROCESS**
- **✓ PROCEDURE**

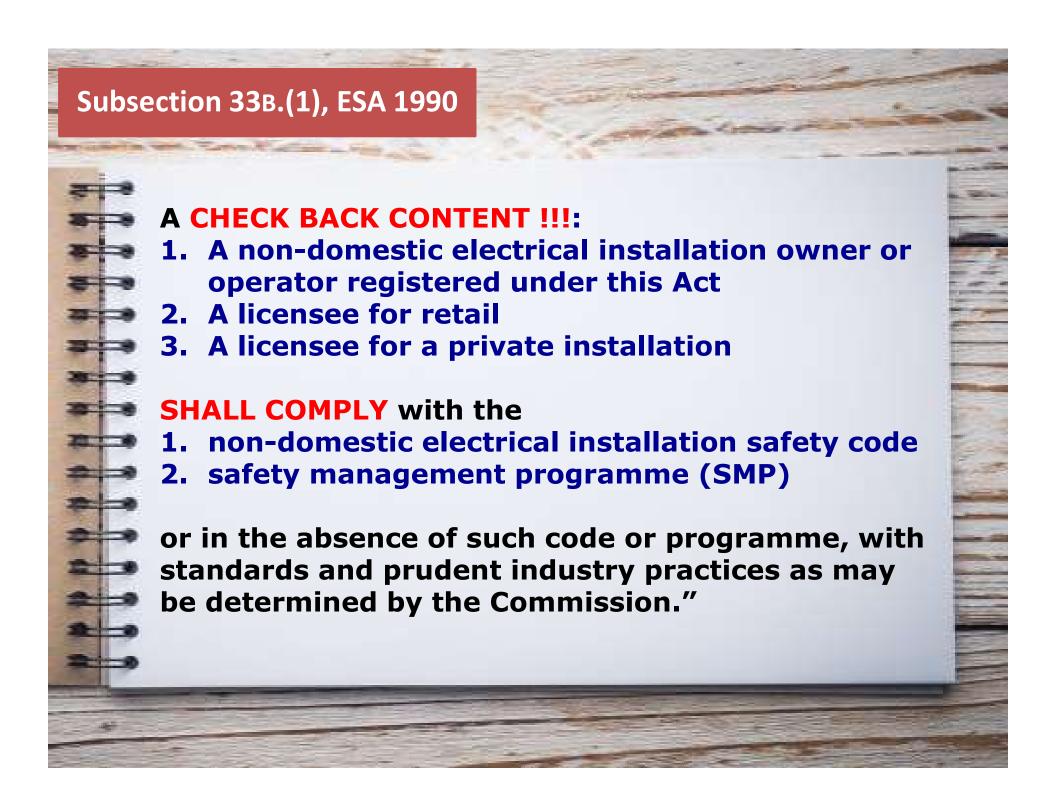


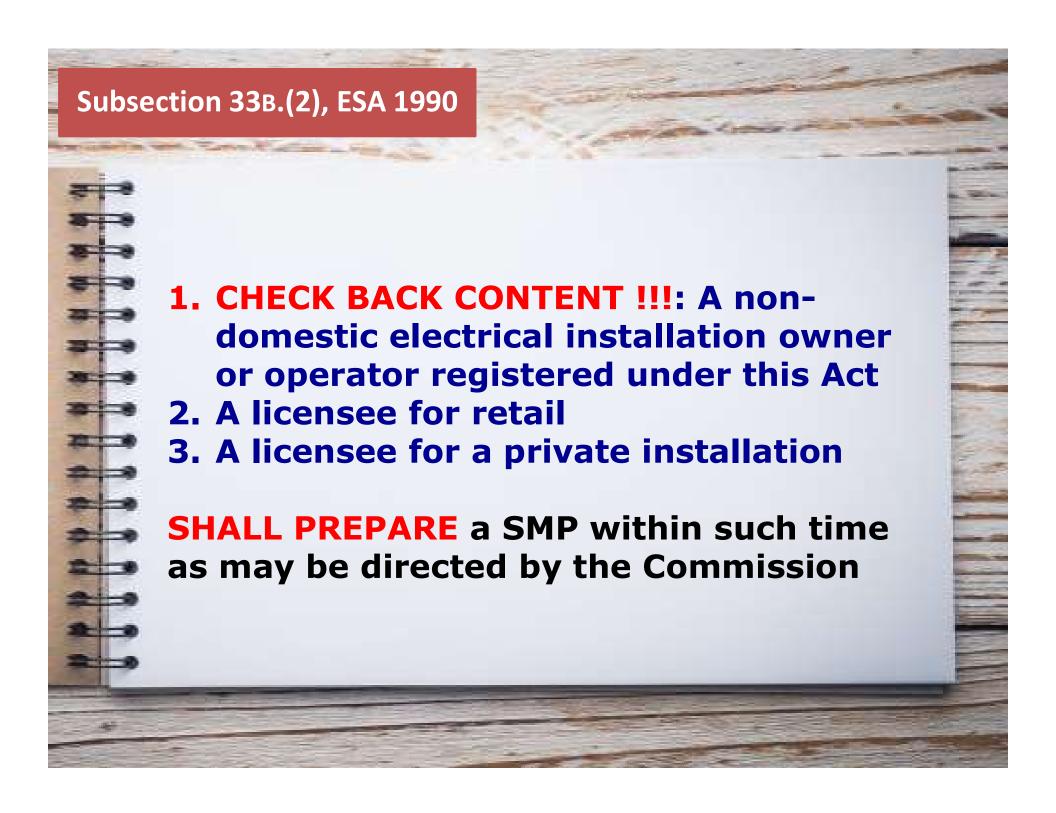


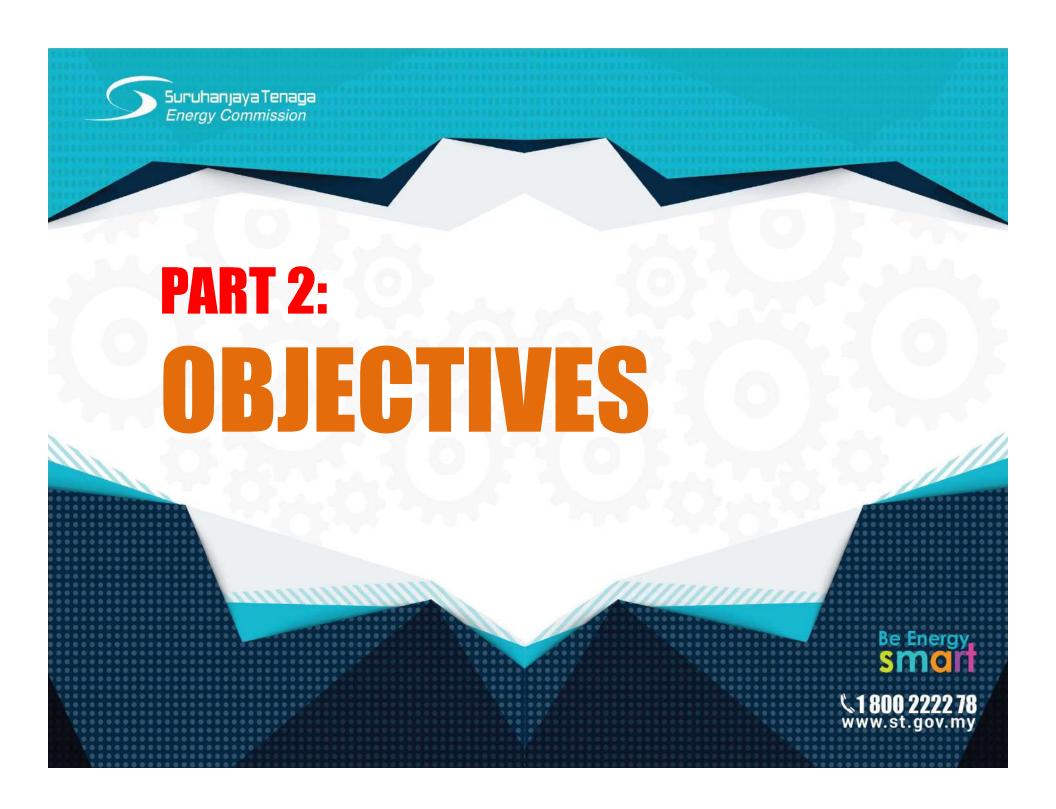












OBJECTIVES



1

GUIDE

Preparation of SMP as required under ESA 1990



2

ADRESS ALL ELEMENTS

SMP cover all elements



3

SYSTEMATIC SUITABLE & STRUCTURED

For the control of electrical risk



4

ASSESS PERFORMANCE & COMPLIANCE

In respect to electrical SMP



PART 3: SAFETY MANAGEMENT PLAN / PROGRAMME

(OPERATION –NONDOMESTIC ELECTRICAL INSTALLATION SAFETY CODE)

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ELEMENTS OF SMP



- □ Should incorporate essential management elements of an effective safety management system.
- May vary in details.



AUDIT CHECKLIST



BE USED AS A

- GUIDE
- BENCHMARK

ELEMENT 1: POLICY, PLAN AND PROGRAMME

1.1 Electrical Safety Policy &

Programme:

- The installation has a written policy, plan/programme to ensure electrical safety.
- The policy, signed by the top management.
- The objectives, responsibilities and arrangements.

1.2 Documentation:

- Maintained and readily accessible.
- Contain information on electrical safety.



ELEMENT 2: ORGANISING



2.1 Responsibility:

Assigns duties responsibility for electrical safety management to line management.

2.2 Competence:

- Adequate training and information on electrical safety.
- ☐ The company complies with ESA 1990 & ER 1994.

2.3 Communication:

- Disseminate information on electrical risks and control measures.
- ☐ Warning signs are used.
- Arrangements suggestions and complaints.

ELEMENT 3: PLANNING AND IMPLEMENTATION



3.1 Planning and Implementation:

The installation's electrical SMP supports:

- ☐ Compliance with ESA 1990, ER 1994, codes and guidelines.
- ☐ Implementation of all elements of the electrical safety management system.
- ☐ Continual improvement.

ELEMENT 4. RISK CONTROL MEASURES



- 4.1 Identification, Evaluation and Control of Risks:
- ☐ Elimination
- ☐ Substitution
- ☐ Engineering controls
- Administrative controls
- ☐ PPE
- 4.2 Permit-To-Work System:

A written Permit-To-Work (PTW) system must be made available.

4.3 Emergency Preparedness:

A written emergency preparedness plan/programme for the installation is available and made known to employees and regularly rehearsed.

ELEMENT 5: PERFORMANCE EVALUATION

- **5.1 Investigation of Electrical-related Accidents and Incidents:**
- □ Carried out by competent persons, with the appropriate participation of management and workers.
- **5.2 Performance Monitoring and Review:**
- ☐ A system for installation's management to regularly monitor electrical safety performance is established.
- □ Records and statistics of electrical accidents.

PERFORMANCE



ELEMENT 6: ACTION FOR IMPROVEMENT

6.1 Preventive and Corrective Action:

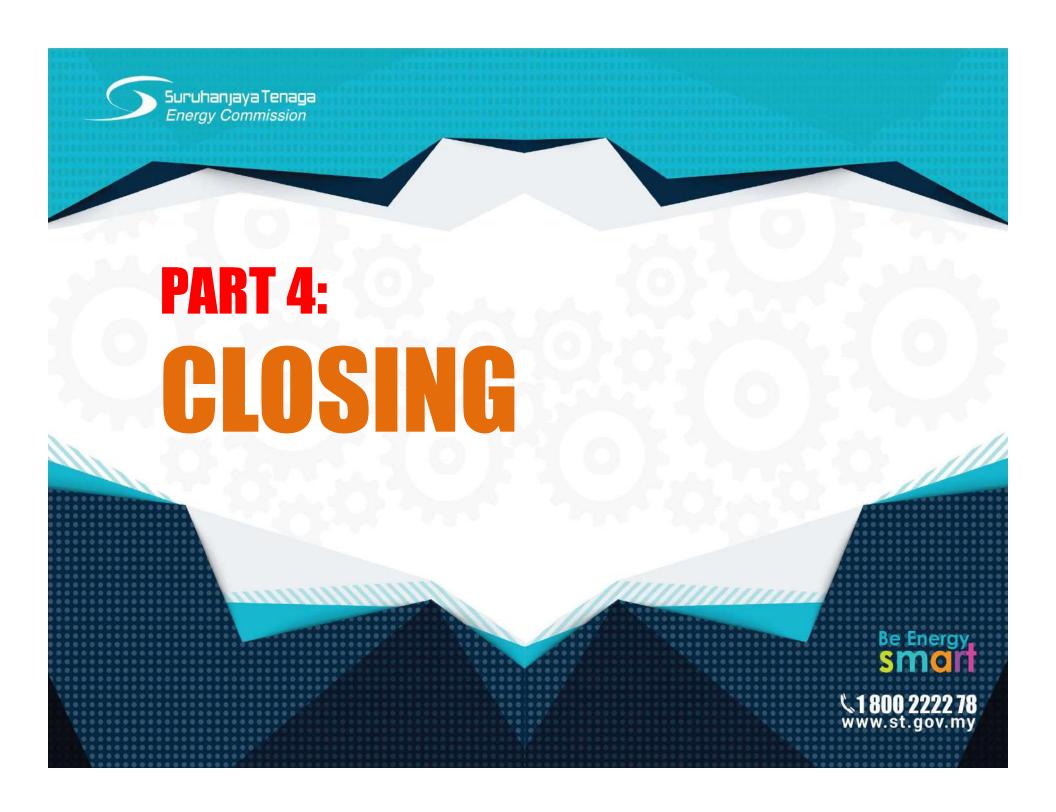
□ Arrangements for preventive and corrective actions are established and updated.

6.2 Continual Improvement:

Take into account the results of:

- ☐ Risk assessments
- □ Performance measurements investigations
- Audits
- ☐ Changes in ESA 1990 & ER 1994
- ☐ Benchmarked with other similar organisations





SOWHAT'S NEXT?



ST CONDUCT AUDIT





IMPORTANT!

ELECTRICITY SUPPLY (AMENDMENT) ACT 2015
Code by Commission

SECTION 50E, ESA 1990

RM200K &/ < 2 YEARS / BOTH





[Act 447]

NON-DOMESTIC ELECTRICAL INSTALLATION SAFETY CODE

KOD/ST/No.4/2016

IN exercise of the power conferred by Section 50a of the Electricity Supply Act 1990 [Act 447], the Energy Commission, with the approval of the Minister makes the following Code:

Citation and Commencement

- 1. This Code may be cited as the "Non-Domestic Electrical Installation Safety Code".
- 2. The Non-Domestic Electrical Installation Safety Code will be issued by the Commission, based on the approval by the Commission on 20th October 2016 and the Minister on 24th December 2016 and shall be enforced and effect from the date of registration.

Application of the Code

 This Code shall be applicable to all non-domestic installations of consumers and installation of licensees for retail and licensees of private installation where electricity is supplied to, except installations as stated in part 1.2.4 of the Code.

Interpretation

 The term and expression used shall, unless defined in the Code or the context otherwise requires, have the same meaning as in the Act or Regulations made under it.



Notice by the Commission

6. The Energy Commission may issue written notices from time to time in relation to the Code.

Amendment and Variation

- 7. The Energy Commission under Section 50b of Electricity Supply (Amendment) Act 2015, may at any time review, amend, modify, vary or revoke this Code or any part thereof, under the following circumstances:
 - to effect changes in the electricity supply industry;
 - where it is expedient to address safety aspect of electrical installation in respect to design, construction, inspection and testing, operation and maintenance;
 - iii) as recommended by the Non-Domestic Electrical Installation Safety Code Committee and approved by the Energy Commission; or
 - iv) any other justifiable reasons as the Energy Commission deems necessary.

Dated: 17 MAY 2017

DATUK IR. AHMAD FAUZI BIN HASAN
Chief Executive Officer
for Energy Commission



THANK YOU

Question?

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BEFORE

AFTER





