PRESENTATION OUTLINE

- BACKGROUND INFORMATION
- MAIN REQUIREMENTS
- **■** FUNCTIONAL REQUIREMENTS
- ENERGY LABEL
- SAFETY REQUIREMENTS
- **■** STATUS OF THE PROPOSED COMPULSORY SPECIFICATIONS



BACKGROUND INFORMATION

- > REQUEST CAME FROM DMRE TO REGULATE GENERAL SERVICE LAMPS:2018
- > TO ALIGN WITH NEW DEVELOPMENTS IN LIGHTING INDUSTY AND ENSURE THAT THE NEW LED TECHNOLOGY PERFOM AS CLAIMED BY SUPPLIERS
- > TO ASSIST CONSUMERS IN MAKING AN INFORM DECISION USING THE ENERGY LABEL
- > TO ALIGN WITH UN GUIDELINES ON GENERAL SERVICES LAMP REQUIREMENT
- ➤ INTENTIONS OF THE REGULATION TO PHASE OUT CFLS AND INCANDESCENT (HALOGEN LAMPS) CURRENTLY REGULATED BY VC 9091& VC 8043
- REGULATE SAFETY OF GSLS AS THEY POSE SAFETY AND HEALTH RISK TO THE PUBLIC

BACKGROUND INFORMATION

- > CONSULTATION STARTED IN OCTOBER 2018 (MANHATTAN HOTEL, FIRST MEETING).
- > SECOND STAKEHOLDERS MEETING AT NRCS DISCUSS THE SCOPE AND CONDUCTED RISK ASSESSMENT.
- ➤ 4 MEETINGS WERE HELD IN 2019 (1 IN MAY, 2 IN JULY AND 1 IN NOVEMBER) TO DISCUSS THE DRAFT, RISK ASSESSMENT, IMPACT ASSESSMENT AND COMMENTS RECEIVED FROM STAKEHOLDERS
- > PARALLEL TO THE CONSULTATION PROCESS AN IMPACT ASSESSMENT WAS CONDUCTED BY NOVA ECONOMICS.
- > CLASP ASSISTED WITH TECHNICAL INFORMATION
- > STAKEHOLDERS INCLUDED: IESSA, SUPPLIERS, CONFORMITY ASSESSMENT BODIES (TEST LABS), CONSUMER BODIES, GOVERNMENT DEPARTMENTS/ENTITIES.



BACKGROUND INFORMATION

- > SCOPE OF THE REGULATION:
- ALL LAMPS WITH ELECTRICAL LIGHT SOURCE (mainly hous hold application)
- THIS INCLUDE LEDS, CFLS, INCANDESCENT/HALOGEN







 SPECIAL LAMPS ARE EXCLUDED FROM PERFORMANCE REQUIREMENTS, BUT SHOULD COMPLY WITH SAFETY REQUIREMENTS. E.G. LAMPS FOR PROJECTORS, STUDIO LAMPS, SURGICAL LAMPS







MAIN REQUIREMENTS

- > PHASE 1: 90 LUMENS/WATT, 12 MONTHS AFTER FINAL PUBLICATION OF VC9109
- > PHASE 2: 105 LUMENS/WATT, 36 MONTHS AFTER THE PUBLICATION OF THE VC 9109.
- > DISPLACEMENT FACTOR: AS PER THE IEC REQUIREMENT

■ 2W<P≤5W:0.4

■ 5W<P≤10: 0.7

■ P> 10W: 0.9

> STANDBY POWER≤ 0.5W

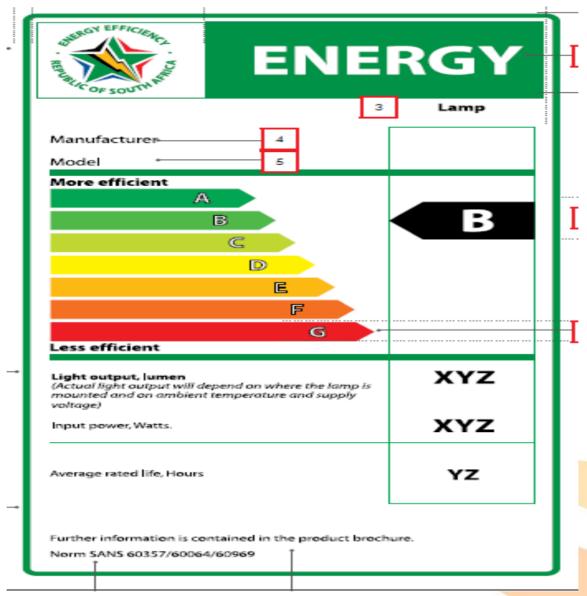


FUNCTIONAL REQUIREMENTS

- **>** COLOUR RENDERING INDEX: Ra≥80
- **► LUMEN MAINTENANCE FACTOR: XLMF, MIN% ≤ 96.0%)**
- > SURVIVAL FACTOR ≥90%
- > SHORT TERM FLICKER INDICATOR(PstLM) ≤1.0 AT FULL LOAD
- > STROBOSCOPIC EFFECT VISIBILITY MEASURE (SVM) ≤ 0.4 AT FULL LOAD
- **EMC EMISSIONS:CISPR15/SANS215**
- > EMC IMMUNITY:SANS/IEC 61547
- > HARMONICS: SANS/IEC 61000-3-2



ENERGY EFFICIENCY LABEL





SAFETY REQUIREMENTS

- Tungsten filament lamps: SANS/IEC 60432-1,
- Tungsten halogen lamps: SANS/IEC 60432-2/3,
- Single-capped fluorescent: SANS/IEC 61199, or SANS/IEC 60968,W
- Self-ballasted LED-lamps: SANS/IEC 62560,
- Semi-integrated LED-lamps: SANS/IEC 62838,
- Photobiological risk requirements: For the blue light hazard:
 RG0 or RG1 are allowed. If an LED uses a UV-based LED chip,
 then it must meet UV RG0 and RG1: IEC 62471 and the

STATUS OF THE PROPOSED COMPULSORY SPECIFICTIONS

- Expected dtic final publication: September 2022 (as per the Minister of dtic communication)
- Implementation of phase 1: expected to be September 2023: 90 lumens/watt,
- Phase 2 September 2026: 105 lumens/watt



THANK YOU

