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İşin Adı : Mersin-Adana-Osmaniye-Gaziantep Yüksek Standartlı Demiryolu Hattı
The Name of the : İnşaatı ile Elektromekanik Sistemlerinin Temini
Job : Construction of Mersin-Adana-Osmaniye-Gaziantep Hight Standard Railway
Line With Supply Of Electromechanical Systems

Rapor Adı : **COLOR CODING PROCEDURE**
Report Name

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İŞ SAĞLIĞI GÜVENLİĞİ & ÇEVRE



1. PURPOSE

This procedure describes the REC color coding system used to provide the controls necessary for the safe operation of potentially hazardous equipment within the specified range of the MAOG Project.

2. SCOPE

This procedure will be applied to all equipment used within the scope of temporary and permanent works in all projects carried out by REC, where the activities of safe operation and maintenance of equipment are carried out by detecting nonconformities in the work equipment used and eliminating such nonconformities without causing HSE risks.

3. REVISION

This procedure will be reviewed and updated at least once a year in line with application changes and needs. However, in case legal requirements arise due to legislative changes and revisions are made in Holding standards, necessary updates will be made regardless of time.

4. REFERENCES

- Rönesans Holding HOL-HSE-STD-013.00 Rev.00 Color Coding ISGC Standard.
- ILO Convention on Health and Safety in Construction No 167, Article 2.2 General Duties of Employers 2.2.5

5. ABBREVIATIONS AND DESCRIPTIONS

REC: REC Uluslararası İnşaat Yatırım San. Ve Tic. A. Ş.

PROJECT: MERSİN-ADANA-OSMANİYE-GAZİANTEP High Standard Railway Project

ILO (International Labour Organisation): International Labour Organization

EN (European Norms): European Norms

Color Coding: All equipment/apparatus/tools color coding requirement of which is defined are checked by the competent person(s) at certain intervals and that they do not pose a risk in terms of occupational health and safety as a result of the control, as determined (tape, spray, etc.) visual marking.



Competent Person: Person who is authorized for control in accordance with HSE legislation and international HSE standards, has received sufficient and necessary training, has technical and appropriate practical and theoretical experience.

Control: It is a control that is made and recorded by the competent person(s) to confirm that all equipment/apparatus/tools do not pose a risk in terms of occupational health and safety, are undamaged (solid), in working condition and are protected.

6. RESPONSIBILITIES

Project Manager (Project Director)

Project Manager is responsible for:

- Execution of the color coding system in accordance with this procedure,
- Regulatory review and/or regular inspection of the operation of the color coding system.

Construction Site Manager/ Construction Manager (Assistant Project Manager / Construction Site Supervisor)

The Construction Site Manager is responsible for:

- The safety of all personnel at the construction site and the safe execution of all activities at the construction site,
- Applying the color coding procedure in accordance with this procedure and supporting procedures on site (and existing local rules),
- Ensuring that the color coding system is subject to active assurance with all recommendations and proposed system improvements,
- Ensuring that the personnel assigned within the scope of this procedure are experts in their assigned duties,
- Auditing compliance with this procedure,



HSE Manager/Supervisor

The HSE Manager is responsible for:

- Providing the documentation of the Color Coding system, including the main documentation,
- Compiling business experience and information from all sources and initiating periodic system reviews for improvement,
- Coordinating the delivery of trainings to meet the needs of the construction site.

Headquarter E&S Manager:

Responsible for managing infrastructure and superstructure projects regarding environmental and social governance issues and member of the Executive E&S Committee on behalf of the REC.

PIU (Project Implementation Unit)

- **PIU Physics Engineer** who is responsible for supervising health and safety for the Project.
- **PIU Department Manager (Superstructure / Civil Engineer)** will be responsible for overseeing the implementation of all health, safety and social measures, as specified within the disclosure package of the Project, and regular reporting to AYGM PIU.

Executive Environmental and Social Management Committee

- **Executive E&S Committee Project Manager (Department Head / Branch Manager /Head of Department)** will be ultimately responsible for overseeing the activities undertaken by the AYGM/TCDD specialists (listed below), overseeing the implementation of mitigation measures and management procedures specified within the disclosure package of the Project, and overseeing the preparation and implementation of a CESMP, which will be based on this ESMP.
- **Executive E&S Committee Environmental, Health and Safety, and Social (EHSS) Manager (Specialist / Engineer)** will be responsible for overseeing all matters that relate to environment, health, safety and social aspects of the Project. Also, s/he will



be appointed to be responsible for supporting the implementation of the SEP, by conducting regular consultation with affected communities on any concern regarding the Project. CLOs will also have responsibility for disseminating the Project disclosure package as described in the SEP. They will also conduct regular inspections of records relating to grievances received and their resolution. S/He will report regularly to AYGM PIU.

Further technical staff may be required during the course of the Project, who will be assigned internally by the AYGM, either by means of permanent or temporary basis until the completion of relevant tasks under the Project whilst they undertake their current responsibilities.

7. GENERAL RULES AND IMPLEMENTATION

7.1 Control and color coding are performed only by authorized person(s) and control results are recorded.

7.2 All equipment/equipment/tools that are not color coded or incorrectly color coded should be removed from the field if they are not suitable and should be allowed to be used after the equipment control is done again.

7.3 All equipment/equipment/tools that need to be color coded on a monthly basis are listed below;

- All lifting devices (all kinds of slings, eyebolts, etc.)
- All parachute type seat belts, shock absorbers and balancers (retractable fall arrest-yoyo)
- Life Ropes
- All lifting equipment (crane hooks, chain hoists, chain hoists, trifors, etc.)
- All power tools (spiral machine, drill, drills, hammers, etc.)
- All electrical appliances (cables, patch cords, extension cords, projectors, heaters, etc.)
- All electrical switchboards (main, distribution, supply, mobile, etc.)



7.4 The color coding cycle is as in Figure 1. The color code of the period will change in monthly periods, the controls should be done on a monthly basis at the latest, and after each control, band/cable tie etc. in the color of the relevant period. should be used.

7.5 After each control, the control performed by writing the serial number of the relevant equipment/equipment/tool should be recorded by the authorized person. In cases where the serial number is missing/deleted, the relevant equipment/equipment/tool must be numbered so that it cannot be deleted. The assigned code must be unique so that it does not interfere with other companies.

7.6 Control of electrical equipment with the device is mandatory.

7.7 All electrical hand tools, equipment and electrical panels belonging to REC and Subcontractor companies will be controlled and recorded by the REC International Electrical Supervisor.

7.8 All lifting apparatuses will be checked by the Sapanıcı conducting the lifting operation, and will be recorded by providing additional control by the REC International Lifting Supervisor.

7.9 All lifting equipment will be checked by the relevant Operator, then checked and recorded by the REC International Lifting Supervisor.

7.10 The controls of parachute type seat belts, shock absorbers and balancers will be made by the company to which the employee is affiliated. Compliance of these controls will be monitored by the REC International HSE department.

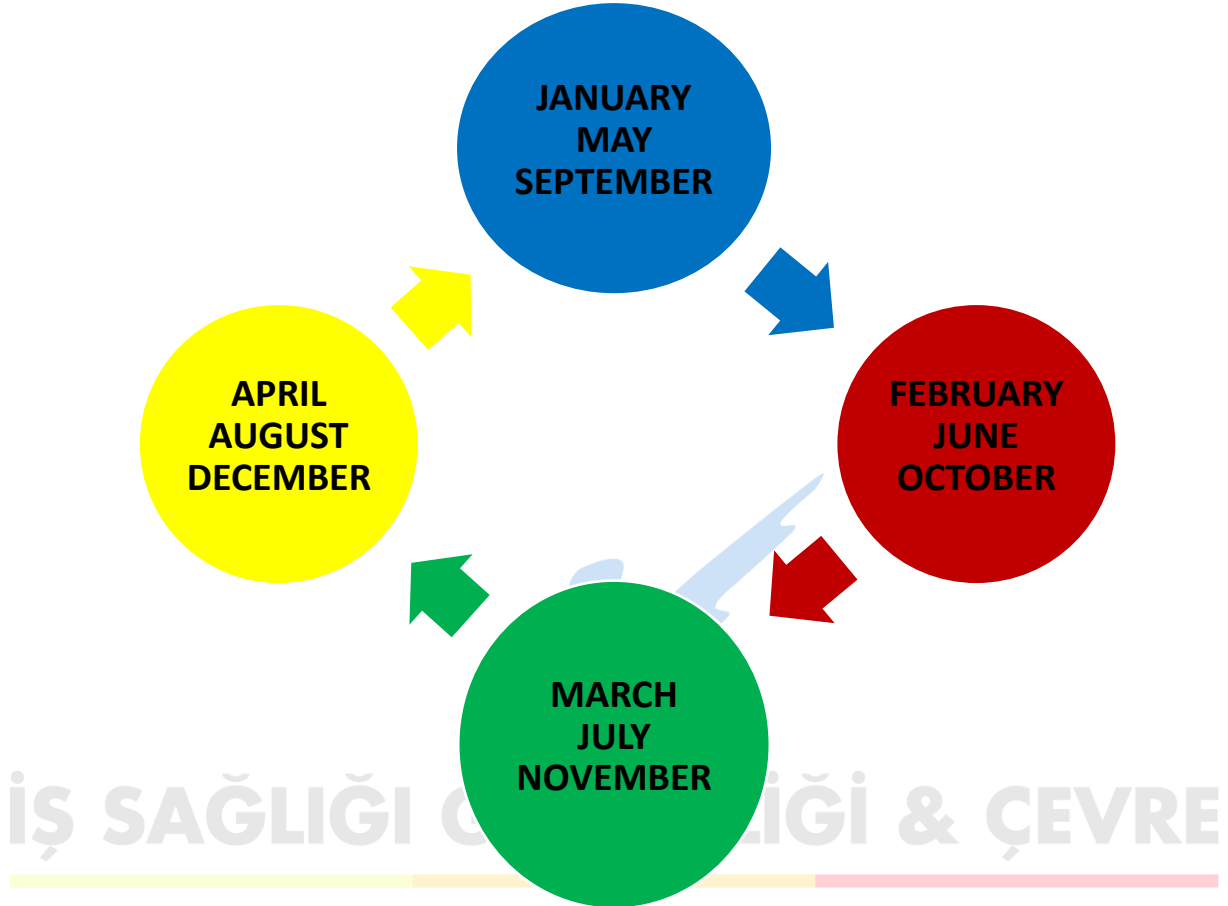
7.11 Color coding should be applied in a way that does not damage the equipment/equipment/tools and does not impair their properties.

7.12 Spray paint should not be used in color coding, except for steel/metal surfaces.

7.13 The recommended color coding practice for electrical appliances and equipment is the use of tape and/or cable ties.

7.14 The recommended color coding practice for lifting equipment is the use of non-damaging cable ties/tape. (The use of tape is recommended for cloth straps).

7.15 Monthly color coding should be announced to all interested parties in 4-month periods, controls and color coding should be completed within the first 5 days of each month.



January	February	March	April	May	June	July	August	September	October	November	December
BLUE	RED	GREEN	YELLOW	BLUE	RED	GREEN	YELLOW	BLUE	RED	GREEN	YELLOW

Figure 1. Monthly Color Coding Cycle

8. MONITORING, ASSURANCE AND VERIFICATION

Key success indicators (KPIs) of this procedure will be monitored, verified and evaluated by the relevant parties in accordance with their responsibilities set forth in the E&S Governance document, within the scope of the MAOG-RECU-GB-GNL-IS-PRG-0007-0 HSE Monitoring, Assurance and Verification Procedure.

9. APPENDICES

APPENDIX 1 - Safe Practice Methods

- ✓ The names and duties of the person(s) authorized to control the equipment/equipment/tools are listed and announced and only the authorized person(s) is allowed to check.
- ✓ In order to control the equipment/equipment/tools according to their characteristics, a record is kept with the control form in which the necessary parameters are written. Controlled equipment/equipment/tools are followed with a list and the information specified in Article 2 is posted on the equipment/equipment/tools.
- ✓ On the labels to be used on the equipment/equipment/tools in color coding;
 - Controller's name/surname
 - Date of check
 - Next inspection date:
 - The controlling signature must be present.

	<p>Sample Color Code Applications:</p> <p>Sample color coding application with tape for power driven handpiece</p>
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Sample color coding application with label
for extension cords



Sample color coding application with label
for lifting equipment

Sample Cable Ties for Color Coding

