WG2

**Sub Working Group**: Maintenance of AtoN Structures (4.1.2)

**Task Register Reference**

* 4.1.2 - Develop guidance on AtoN structure protection systems & repair techniques.

**Summary**

During the review of Task 4.1.2 *“Develop guidance on AtoN structure protection systems & repair techniques”,* it was considered that existing guidance on AtoN building and structure maintenance and repairs (Guideline 1007) was deficient in a number of areas and a full review should be conducted.

**Activities**

1. Consolidate and develop guidance on Maintenance on AtoN Structures by utilising relevant information from the following existing guidelines:

|  |  |  |  |
| --- | --- | --- | --- |
| **Number** | **Name** | **Comment / Recommendations** | **Date** |
| 1007 | Lighthouse Maintenance | Guideline 1007 Lighthouse Maintenance to be discontinued after relevant content transferred to new guideline. | Dec. 2005 Ed. 1.1 |
| 1109 | Theft and vandalism | Reference relevant areas in new guideline. | 2013  Ed1 |
| 1076 | Building Conditioning | Guideline 1076 Building Conditioning to be discontinued after relevant content transferred to new guideline and appropriate case studies put on the IALAWiki. | Dec. 2009 Ed. 1 |
| 1077 | Maintenance of AtoN | Guideline 1077 Maintenance of AtoN to be discontinued after relevant content transferred to new guideline and appropriate case studies put on the IALAWiki. Other working groups to consider relevant information to be included in updating of other guidelines. | Dec. 2009 Ed. 1 |
|  | IALA Lighthouse Conservation Manual | Review for relevant information. | May 2006 Ed. 1 |

1. Develop a new guideline on Maintenance of AtoN Structures in accordance with the following draft structure:
2. Introduction
3. Maintenance strategy - maintenance system
4. Structures and building types (including ancillary AtoN operational buildings)
5. Materials (+ quoting illustrations)
   1. Masonry (including stone)
      1. Material description and properties
      2. Behavior and risks / issues (including corrosion where relevant)
      3. Durability and additional protection systems (cathodic protection, painting and protective coatings, protective membranes, etc.)
      4. Periodic maintenance
   * Inspection and survey
   * Spots of corrosion
   * Painting renewal
   * …
     1. Repair techniques (detail major repairs below)
   1. Timber
   2. Concrete (blockwork, brickwork, reinforced concrete, …)
   3. Composite (plastics)
   4. Metals (including steel, aluminum, copper, cast iron, zinc …)
6. Control mechanisms - Environmental controls – building conditioning

**Activity Schedule and Timeline**

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| --- | --- |
| **Activity** | **Meeting** |
| 1. Identify existing guidance. | ENG 1 |
| 1. Setup a table detailing chapters in existing guidance. | ENG 1 & 2 |
| 1. Identify missing details or incomplete information. | ENG 2 - 4 |
| 1. Review chapters in existing guidance for best practice and accuracy. | ENG 2 - 4 |
| 1. Review and develop new guideline framework. | ENG 3 - 4 |
| 1. Populate the new document. | ENG 3 - 6 |
| 1. Review and finalise content. | ENG 7 |

**Recommendation**

1. Amend the task register reference 4.1.2 from “*Develop guidance on AtoN structure protection systems & repair techniques*” to “*Consolidate and* *develop a new guideline on Maintenance of AtoN Structures to incorporate additional information relating to protection systems and repair techniques*”