Paper for Consideration by ENCWG4

PYLONS point objects and S-58

Submitted by:	Australia (AHO)
Executive Summary:	An S-58 check requires PYLONS of any geometry to be covered by a LNDARE object of geometric primitive area.
Related Documents:	S-58 Ed 6.1.0
Related Projects:	S101PT

Introduction / Background

PYLONS objects may be of geometric primitive Point or Area.

S-57 Appendix B.1, Annex A (UOC) states that PYLONS of type area must be covered by LNDARE object of type area. It does not require the same for PYLONS of geometric primitive Point.

4.8.18 Pylons and bridge supports (see S-4 – B-381)

If it is required to encode a pylon or bridge support, it must be done using the object class **PYLONS**.

Geo object: Pylon / bridge support (**PYLONS**) (P,A)
Attributes: CATPYL COLOUR COLPAT CONDTN CONRAD CONVIS DATEND
DATSTA HEIGHT NATCON NOBJNM OBJNAM ~~VERACC~~ ~~VERDAT~~
VERLEN WATLEV INFORM NINFOM

Remarks:
- A **PYLONS** object of type area with attribute WATLEV = *1, 2* or *6* must be covered by a **LNDARE** object of type area (see clause 4.8.10).

S-58 Error check 1637 was altered between S-58 Ed 5.0.0 and Ed 6.1.0. The latest version of the check does not filter by geometric primitive and therefore a PYLONS point object that is not covered by LNDARE area is now reported by the ENC validation checks as an Error.

Analysis/Discussion

It appears that the omission of the text 'of type area' has been accidentally omitted when developing S-58 Ed 6.1.0.

1637	For each PYLONS object of type area where WATLEV equals 1 [partly submerged at high water], 2 [always dry] or 6 [subject to inundation or flooding] which is not WITHIN a LNDARE object of type area.	PYLONS object with WATLEV 1,2 or 6 not situated on a LNDARE object.	Ensure PYLONS object is situated on LNDARE of type area.	4.8.18	E

S-58 Ed 5.0.0

1637	For each PYLONS feature object where WATLEV is Equal to 1 (partly submerged at high water) OR 2 (always dry) OR 6 (subject to inundation or flooding) which is not COVERED_BY a LNDARE feature object of geometric primitive area.	PYLONS object with WATLEV = 1, 2 or 6 not covered by a LNDARE object.	Ensure PYLONS object is covered by a LNDARE object.	4.8.18	E

S-58 Ed 6.1.0

Note: FOR REASONS OF ECONOMY, DELEGATES ARE KINDLY REQUESTED TO BRING THEIR OWN COPIES OF THE DOCUMENTS TO THE MEETING

Conclusions

S-58 check 1637 should be amended.

Recommendations

- Amend S-58 check 1637 to read: '*For each PYLONS feature object of type area where …..*".

Justification and Impacts

S-58 check 1637 requires amending to avoid 'erroneous errors' being reported by the Validation checks.

Action Required of ENCWG

The ENCWG is invited to agree with the proposed change to S-58.