DEPARTMENT OF THE ARMY
U.S. Army Corps of Engineers
Washington, DC 20314-1000

EC 1130-2-215

CECW-CE

Regulation
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EXPIRES 30 SEPTEMPER 2012
Project Operations
Corps Project Notebook:
A Database of USACE Project Geographic Locations

1. Purpose. This regulation provides guidance for updating the USACE Corps Project Notebook (CPN). The purpose of the CPN is to provide a single authoritative reference database of the location of all Corps Civil Works, Military, and Interagency and International support projects. This database is used primarily for mapping and performing Geographic Information System (GIS) analysis. The CPN is used to:

a. supply project location information to the USACE Enterprise GIS program and other systems; such as P2, OMBIL, EngLink, Resident Management System (RMS), etc. as required

b. update the Corps Civil Works wall map

c. map the status of a variety of Corps initiatives. CPN will not in itself track project execution, but if an office wanted to map the status of project execution, CPN can provide project location information.

d. depict project locations on the CorpsMap web site for public and external agencies

e. support Corps participation in geospatial Service Oriented Architecture

In CPN context, a project reference location is defined as a "site" where work has been (or is being) executed (civil and military), operation and maintenance appropriation related to Flood and Coastal Storm Damage Reduction, Hydropower, Navigation, Recreation and Water Supply. Non-Environmental Continuing Authority Program (CAP) Projects shall also be entered into the CPN. Projects that USACE is executing in partnership with other agencies through the Interagency Support Program shall also be entered into the CPN.

Environmental Restoration projects shall be entered into the Environmental Database, which is linked to the CPN. Sites may initially be represented as single points and are to be refined and represented as areas over time. Construction projects that are tracked in the Residence Management System (RMS) shall have their site locations entered into RMS, which is also linked to CPN.

Populating and verifying the information in the CPN is a collaborative effort between District Program Managers and District Enterprise GIS (EGIS) teams, the actual population and verification of the CPN is the responsibility of the District Geospatial Data and Systems (GD&S) Coordinator or whomever the GD&S Coordinator designates.

CPN is not intended to track transient or temporary project information; such as, sites where USACE personnel may be located for a short period of time. The project site must be expected to exist for a 3-6 month minimum period of time. The CPN database is not meant to track USACE personnel.

The metric for success in CPN maintenance is a mapped location for each currently funded program based upon current FY budget and each active P2 project with CPN links to all relevant databases.

2. Applicability. This regulation is applicable to all HQUSACE elements, and all subordinate commands, districts, and field operating activities having Civil Works and Military Programs responsibilities.

3. Distribution. Approved for public release; distribution is unlimited.

4. References. Guidance described in this EC is consistent with ER 1110-1-8156 and EM 1110-1-2909.

5. Description. The CPN combines historical and current project information from all the Civil Works Districts into a single database viewable through the CorpsMap web map interface (https://corpsmap.usace.army.mil). The CPN is specifically designed to allow each District to identify existing Civil Works Projects, create new projects and set status to "historic" for projects that are not currently funded. A variety of reports can be generated through the CPN interface and excel reports can also be generated from the CPN web site. (https://maps.crrel.usace.army.mil/cpn). The CPN data can be accessed directly through a web map interface or through ArcGIS desktop software (Appendix A).

6. CPN Reports. The following reports can be generated through the CPN web interface.

a. Summary Report. Displays a summary of all projects by District, Division or Nationally.

b. Project Fact Sheets. Project Fact sheets are developed dynamically through the CPN interface (See Appendix B for example). A Project Fact sheet is a one page fact sheet describing key project information and can include a photograph.

c. *Status Tracking Map.* The CPN provides a mapping interface where all projects locations can be viewed on a map with other data layers.

7. Data Elements. Data elements of the CPN will be based on a USACE adaptation of the SDSDIE 3.0 Project Reference Location. Appendix C details the SDSFIE 3.0 Project Reference Area.. Generally there are three types of projects in the CPN: Civil Works, Military

Construction and International and Interagency Support (IIS). Not all elements described below are applicable to all projects.

a. Project Name. The congressionally authorized name of the project. (Mandatory Element)

b. Project Alias. Common or Alternate name of project.

c. External Links or References to Other Systems as appropriate

(1) *AMSCO or Program Code*

(2) *P2 Project Number(s)*

(3) *OMBIL Site ID*

(4) *Real Property Site Unique Identifier*

d. Project Appropriation. The CorpsMap Development team annually applies current budget information to the CPN database. If budget information is not correct, it needs to be worked in coordination with HQ Programs Office.

e. Project Authorization. Identify which act or acts authorized the project.

f. Project Description.. Text describing historical and current information pertaining to the project.

g. States. Identify the state(s) the project is located in.

h. Water. Identify the water body the project may be associated with. This field is primarily for Civil Works Projects.

i. ARRA Funded. Identify whether this project has been funded by the American Recovery and Reinvestment Act of 2009.

j. Project Reference Area. Identifies the location of the project. This is SDSFIE Point data is a minimum required, but area can be uploaded to the database. (Mandatory Element)

k. Primary and Secondary Function. Identify the primary function of the project and any secondary functions it may have. The purpose of this field is to map projects according to general function and it is only applicable to Civil Works projects.

Flood and Coastal Storm Damage Reduction
Hydropower
Navigation
Environment
Regulatory

Recreation
Emergency Management
Water Supply

l. Related Congressional Appropriation. Identify which Congressional Appropriation funds each project.

m. Project Specific URL – If the project has a web site, identify the URL.

n. Related Documents. The following document types should be uploaded to the CPN

(1) Design Drawings (Design Drawings will not be made available outside of USACE)

(2) Project Maps

(3) Other

(4) Photo

(5) Primary Photo – the photo to be displayed on the Fact Sheet

(6) Project Description

o. Defense Site Locations – Military Installation the Project Site is associated with. This is primarily affiliated with military construction projects.

p. Interagency Work – Interagency work is tracked through this field and the Agency the work is being done for is required.

8. Updating Data Elements. For CPN to remain current, each District should edit/append their District's information (data elements) through the CPN interface or by batch data upload. Updates can be made at any time, but new projects need be added and unfunded projects need to be set to "historic" status by 1 March of each year. CPN replaces the need to update the legacy Digital Project Notebook (DPN) database and Project Map Books of the late 1900's when each District was required to send Project Map Books to HQ annually. Districts should redirect Project Map Book funds to updating the CPN database.

Projects that have no funding because they are complete and have been turned over to a sponsor or because they no longer have a congressional appropriation should also be placed in "historic" status. If funding is restored the project can be toggled back to "active" status; otherwise, it will remain in historic status as a historical project. Some Civil projects are funded through a program; such as "Inspection of Completed Works", these projects shall remain as "active".

a. Access to CPN; CPN is available read-only to all USACE staff via the CorpsMap portal (click on "Corps Project Notebook"). For those who are required to edit project information, a

UPASS capability will be available to assign edit privileges to individuals authorized by the District Geospatial Coordinator.

b. General Guidance on Updating the CPN Database Projects that are comprised of multiple field offices should all have the same P2 number so they can be linked back to a specific appropriation.

c. Identifying Project Location. Project locations can be added to the CPN database through 1) clicking on general project location in CPN to add a general point or area location or 2) EGIS Manager can work with CPN developers to upload location information directly into the CPN database.

Project locations are not meant to be engineering quality locations, rather equivalent in accuracy to an approximate 1:240000 to 1:250000 scale map . It is understood that representing what can be a large project as a single point is not an optimal representation. At a minimum, a point location is required to be input via CPN. A notional project boundary can also be entered via the CPN interface. For complex geometries, or where GIS data already exist such as in a Real Estate GIS, instructions will be provided for data upload. Real Estate GIS remains the authoritative source for Real Estate boundaries within the Real Estate function and will eventually be accessible through the Real Estate Management Information System (REMIS).

In some cases, more detailed geometry will be accessed through other existing databases; such as, the National Levee Database for Levees and Channel Framework Database for Navigation Dredging Projects.

9. Mandatory Requirements. District GD&S points of contact are required to update (add new projects and mark unfunded projects by setting them to be historic and review/augment existing information) the CPN information by 1 March of each year.

10. Proponency. The HQUSACE proponent for this interim guidance is the Engineering and Construction Division, Directorate of Civil Works.

FOR THE COMMANDER:

JAMES C. DALTON, P.E., SES
Chief, Engineering and Construction
Directorate of Civil Works

3 Appendices
App A – Instructions on Accessing CPN through the CorpsMap SDE Connection
App B – Example of a CPN Fact Sheet
App C – SDSFIE 3.0 Project Reference Area

APPENDIX A

Instructions on Accessing CPN through the CorpsMap SDE Connection

To access CorpsMap Data via SDE

1. Contact your UPASS administrator and request access to: CORPSMAP S0EGISP2 SID ON CPC21.USACE.ARMY.MIL

Using ArcCatalog 9.x:

1. Expand "Database Connections".
2. Double-click "Add Spatial Database Connection".
3. For Server, type "cpc21.usace.army.mil".
4. For Service, type "5151".
5. For Username, type your UPASS ID.
6. For Password, type your Oracle Password.
7. Click Okay.
8. You may now add this connection in ArcMap.

APPENDIX B

Example of a CPN Project Fact Sheet

US Army Corps of Engineers

Berlin Lake, OH
Pittsburgh District

Appropriation: CONSTRUCTION, GENERAL

Authorization: FCA 1938

Primary Function: Flood & Coastal Storm Damage Reduction

Project Description:

BERLIN LAKE
SUMMARY OF PERTINENT DATA
30 SEPTEMBER 1992

AUTHORIZATION. Flood Control Act of 28 June 1938.

LOCATION. The dam is located on the Mahoning River in Mahoning and Portage Counties, Ohio, about 10 Miles upstream from Milton Dam (Non-Federal Project) and about 35 miles upstream from Warren, Ohio. The lake is located in Mahoning, Portage and Stark Counties, Ohio.

STRUCTURAL DATA.
DAM: Type: Concrete gravity, flanked by earth embankments
Maximum height (uncontrolled spillway) above stream bed el. 949..... 83 feet
Maximum height (roadway).....96 feet above stream bed el. 949
Top length (concrete section).....663.5 feet
Top length, including embankments.....5,750 feet
Base width (controlled spillway).....73 feet

SPILLWAY. Concrete gravity ogee section. Four 3' x 18' tainter gates, net length gated section, 120' fixed crest at elevation 1014. Net length uncontrolled section 360', crest elevation, 1032.

OUTLET WORKS. Three conduits through controlled spillway section, each controlled by a 36" gate valve, invert el. 956.5, motor-operated from within the dam. Provision made for reopening two 5' x 7' diversion conduits, through spillway gate piers, equipped with motor-operated gate valve.

OTHER STRUCTURES. Auxilliary dam for stilling basin. Water supply intake tower, with 66" pipe conduit, invert el 974, and pump station, feeding 42" supply line to Meander Creek Reservoir (Non-Federal Project).

RELOCATIONS. Included about 1.9 miles of railroad, 6.3 miles of highway, 0.9 mile of pipeline, 4.4 miles of power lines and 7.2 miles of communication lines.

HYDROLOGY. Drainage area above dam, 249 square miles. Maximum flow of record at damsite, 25,200 c.f.s., 22 January 1959.

HYDRAULIC DESIGN. Spillway discharge capacity, 74,500 c.

P2: 113091
CWIS: 001400

Location: The project is located in Ohio.
Water: Mahoning River

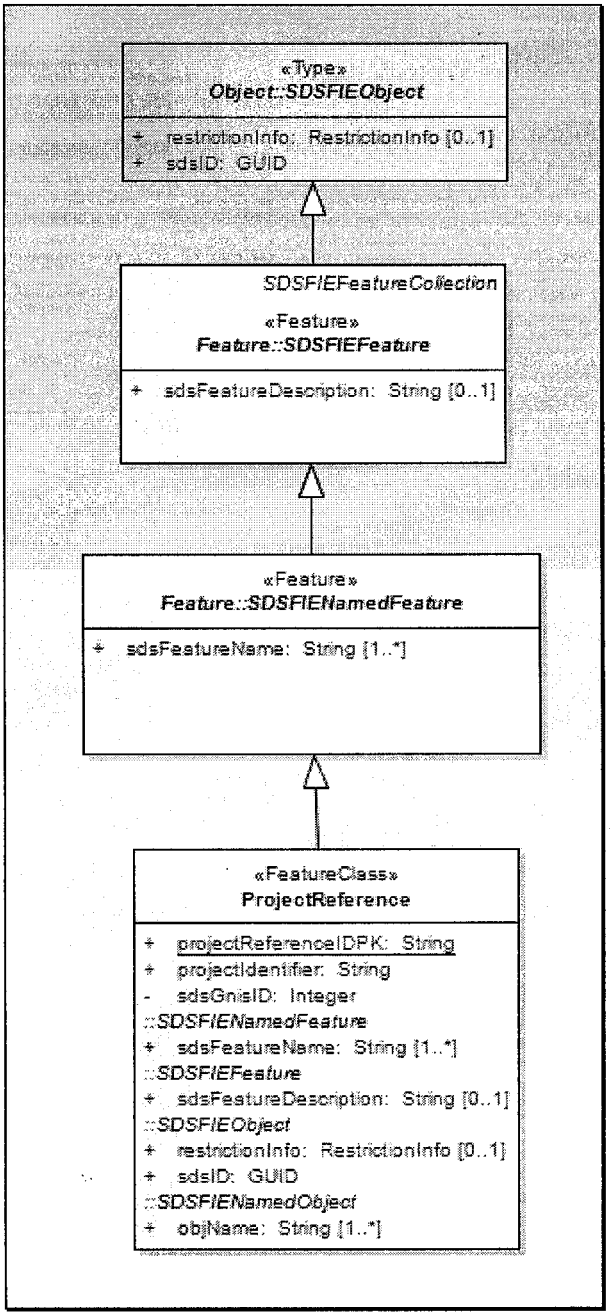
Photo: Berlin.jpg

Appendix C

SDSFIE 3.0 Project Reference Feature

Project Reference

Other Versions: *none*
Default Subtype: *none*
Permissible Subtypes: *none*
Container: *none*
Definition: Location of or area delineating a specific project.
Default Geometry: Area/Polygon
Permissible Geometry: Area/Polygon, Point

Attribute Name	**Data Type**	**Constraint**
[PK] projectReferenceIDPK	String	*none*
The unique identifier for each instance of the ProjectReference feature type.		
projectID	String	*none*
A foreign key reference to a project identifier used by an external business system.		
sdsFeatureDescription (inherited)	Memo	*none*
A narrative describing the feature.		
sdsFeatureName (inherited)	String	*none*
The common name of the feature.		
sdsGnisID (adaptation)	Integer	*none*
The identifier for Geographic Names Information System.		
sdsID (inherited)	GUID	*none*
A unique identifier for all features and objects in the SDSFIE.		
sdsMetadataID (inherited)	String	*none*
The foreign key to a metadata record.		

Logical Data Model for SDSFIE Feature Type Project Reference. The attributes included in Super Classes will be inherited by ProjectReference (as shown).