

FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

This form is to be filled out in duplicate.

SECTION 1: GENERAL PROVISIONS (APPLICANT to read and sign):

1. No work may start until a permit is issued.
2. The permit may be revoked if any false statements are made herein.
3. If revoked, all work must cease until permit is re-issued.
4. Development shall not be used or occupied until a Certificate of Compliance is issued.
5. The permit is invalid if no work is commenced within six months of issuance, and expires 2 years from date of issuance.
6. Applicant is hereby informed that other permits may be required to fulfill local, state and federal regulatory requirements.
7. Applicant hereby gives consent to the Local Administrator or his/her representative to make reasonable inspections required to verify compliance.
8. I, THE APPLICANT, CERTIFY THAT ALL STATEMENTS HEREIN AND IN ATTACHMENTS TO THIS APPLICATION ARE, TO THE BEST OF MY KNOWLEDGE, TRUE AND ACCURATE.

(APPLICANT'S SIGNATURE)

 DATE 8/6/14
Chris DeRoberts, CHG&E Corp. Environmental Coordinator

SECTION 2: PROPOSED DEVELOPMENT (To be completed by APPLICANT)

NAME Central Hudson Gas & Electric Corp. ADDRESS 284 South Ave., Poughkeepsie, NY TELEPHONE (845) 486 - 5734
APPLICANT

BUILDER

ENGINEER David Clouser & Associates, c/o David B. Clouser, PE, 1 Paradise Lane, New Paltz, NY 12561 (845) 256-9600

PROJECT LOCATION:

To avoid delay in processing the application, please provide enough information to easily identify the project location. Provide the street address, lot number or legal description (attach) and, outside urban areas, the distance to the nearest intersecting road or well-known landmark. A map attached to this application, and a sketch showing the project layout would be helpful.

Central Hudson Gas & Electric Corporation's Power Generating Station and Substation property located at
234 Coutant Road in Tilson, New York (SBL: 62.4 - 6- 34), located approximately 6350 feet north of Grist
Mill Road in the Town of Rosendale (See attached Floodplain Development Exhibit with Vicinity Map)

DESCRIPTION OF WORK (Check all applicable boxes):

A. STRUCTURAL DEVELOPMENT

ACTIVITY

STRUCTURE TYPE

- New Structure
- Addition
- Alteration
- Relocation
- Demolition
- Replacement

- Residential (1-4 Family)
- Residential (More than 4 Family)
- Non-residential (Floodproofing? Yes)
- Combined Use (Residential & Commercial)
- Manufactured (Mobile) Home
(In Manufactured Home Park? Yes No)

ESTIMATED COST OF PROJECT \$ 12,000,000

B. OTHER DEVELOPMENT ACTIVITIES:

- Fill Mining Drilling Grading
- Excavation (Except for Structural Development Checked Above)
- Watercourse Alteration (Including Dredging and Channel Modifications)
- Drainage Improvements (Including Culvert Work), Stormwater Control Structures or Ponds
- Road, Street or Bridge Construction
- Subdivision (New or Expansion)
- Individual Water or Sewer System
- Other (Please Specify) Internal access drive improvements

After completing SECTION 2, APPLICANT should submit form to Local Administrator for review.

SECTION 3: FLOODPLAIN DETERMINATION (To be completed by LOCAL ADMINISTRATOR)

The proposed development is located on FIRM Panel No. 36111C0610E, Dated 9/25/09

The Proposed Development:

- The proposed development is reasonably safe from flooding. Entire property is in Zone B, C or X.
- The proposed development is in adjacent to a flood prone area.
100-Year flood elevation at the site is:
36.4 Ft. NGVD 1929/ NAVD 1988 (MSL)
 Unavailable
- See Section 4 for additional instructions for development that is or may be in a flood prone area.

SIGNED



8/5/14

DATE

SECTION 4: ADDITIONAL INFORMATION REQUIRED (To be completed by LOCAL ADMINISTRATOR)

The applicant must submit the documents checked below before the application can be processed:

- A site plan showing the location of all existing structures, water bodies, adjacent roads, lot dimensions and proposed development.
- Development plans and specifications, drawn to scale, including where applicable: details for anchoring structures, proposed elevation of lowest floor (including basement), types of water resistant materials used below the first floor, details of floodproofing of utilities located below the first floor, details of enclosures below the first floor, openings in foundation for entry and exit of floodwaters.
Other _____
- Elevation Certificate
- Subdivision or other development plans (If the subdivision or other development exceeds 50 lots or 5 acres, whichever is the lesser, the applicant must provide 100-year flood elevations if they are not otherwise available).
- Plans showing the watercourse location, proposed relocations, Floodway location.
- Topographic information showing existing and proposed grades, location of all proposed fill.
- Top of new fill elevation 36.4 Ft. NGVD 1929/ NAVD 1988 (MSL)
- PE Certification of Soil Compaction
- Floodproofing protection level (non-residential only) _____ NGVD 1929/ NAVD 1988 (MSL)
For floodproofed structures, applicant must attach certification from registered engineer or architect.
- Other: _____

SECTION 5: PERMIT DETERMINATION (To be completed by LOCAL ADMINISTRATOR)

I have determined that the proposed activity: A. Is
B. Is not
in conformance with provisions of Local Law # 4, (yr) 2009. This permit is hereby issued subject to the conditions attached to and made part of this permit.

SIGNED [Signature], DATE 8/05/14

If BOX A is checked, the Local Administrator may issue a Development Permit upon payment of designated fee.
If BOX B is checked, the Local Administrator will provide a written summary of deficiencies. Applicant may revise and resubmit an application to the Local Administrator or may request a hearing from the Board of Appeals.

Expiration Date: 8/05/16

APPEALS: Appealed to Board of Appeals? Yes No

Hearing date: _____

Appeals Board Decision --- Approved? Yes No

Conditions: _____

SECTION 6: AS-BUILT ELEVATIONS (To be submitted by APPLICANT before Certificate of Compliance is issued)

The following information must be provided for project structures. This section must be completed by a registered professional engineer or a licensed land surveyor (or attach a certification to this application). Complete 1 or 2 below.

1. Actual (As-Built) Elevation of the top of the lowest floor, including basement (in Coastal High Hazard Areas, bottom of lowest structural member of the lowest floor, excluding piling and columns) is: _____ FT. NGVD 1929/
 NAVD 1988 (MSL). Attach Elevation Certificate FEMA Form 81-31
2. Actual (As-Built) Elevation of floodproofing protection is _____ FT. NGVD 1929/ NAVD 1988 (MSL).
Attach Floodproofing Certificate FEMA Form 81-65

NOTE: Any work performed prior to submittal of the above information is at the risk of the Applicant.

SECTION 7: COMPLIANCE ACTION (To be completed by LOCAL ADMINISTRATOR)

The LOCAL ADMINISTRATOR will complete this section as applicable based on inspection of the project to ensure compliance with the community's local law for flood damage prevention.

INSPECTIONS: DATE _____ BY _____ DEFICIENCIES? YES NO
 DATE _____ BY _____ DEFICIENCIES? YES NO
 DATE _____ BY _____ DEFICIENCIES? YES NO

SECTION 8: CERTIFICATE OF COMPLIANCE (To be completed by LOCAL ADMINISTRATOR)

Certificate of Compliance issued: DATE: _____

BY: _____

David Clouser & Associates

Licensed Professional Engineers and Land Surveyors
One Paradise Lane x Suite 200
New Paltz, New York 12561 www.dcaenrgs.com

Telephone: (845) 256 - 9600
Fax: (845) 256 - 9700
E-mail: dbsea@dcaenrgs.com

August 1, 2014

Mr. Tom Fiore, Building Inspector
Town of Rosendale Building Department
P. O. Box 423
Rosendale, New York 12472

Re: Central Hudson Gas & Electric Corp.
Sturgeon Pool Substation Upgrade Project
234 Coutant Road, Tillson, NY
Floodplain Development Permit Application

Dear Mr. Fiore:

On behalf of our client, Central Hudson Gas & Electric Corp. (CHG&E), please find enclosed a Floodplain Development Permit Application and attached Floodplain Development Exhibit plan for your review with regards to the planned Substation Upgrade Project planned at their existing Sturgeon Pool facilities at the end of Coutant Road. This project has been authorized by the Public Service Commission's Article VII Certificate of Environmental Compatibility and Public Need which included the rebuild of substations associated with the reconstruction of its existing P & MK transmission lines. In 1996, the Public Service Commission approved Central Hudson's Environmental Management and Construction Plan (EM&CP). Our subsequent EM&CP addendum, filed with the PSC on July 14, 2014, provided detailed design and construction plans for the transmission facility, as well as the footprint and general electrical layout for new or expanded substations.

Due to the necessity to elevate the new, upgraded Sturgeon Pool substation and its access drive to improve operational needs and customer service reliability, some minor filling (approximately 2,260 cubic yards) in the FEMA regulated Walkkill River floodplain is being proposed. This Floodplain Development Permit application is made in accordance with Article V. *Supplementary Regulations, §75-27 Flood Damage Prevention Regulations* of the Town Zoning Regulations.

To provide some additional background on this permit application, following the December 2012 meeting at the Sturgeon Pool substation with representatives of Central Hudson and representatives of the Town, various aspects of the substation upgrade were discussed including the inaccuracy of both the location and the extent of the floodplain that was shown on the FEMA Flood Insurance Rate Map (refer to the copy attached). A subsequent topographic

survey commissioned by CHG&E indicated that the 100-year floodplain (elevation 36.4 feet above mean sea level, NAVD 1988 datum) was limited to that area shown on the attached *Floodplain Development Exhibit* (i.e., the dashed blue line which includes the area along the stream to the west of the proposed upgraded substation). Following consultation with FEMA's technical consultants (Dewberry and subsequently URS Consultants), direction was provided to submit an application to the Town's Floodplain Administrator for a Floodplain Development Permit. As you are aware, this permit process requires a certification by a professional engineer that the proposed development within the floodplain would not cause an increase in the Base Flood Elevation greater than 1 foot. The FEMA technical consultant also noted from their firm's review of the proposed improvements that since the Base Flood Elevation is controlled at this location below the Sturgeon Pool dam by the backwater condition from the Rondout Creek, the proposed construction would almost certainly have no impact to the Base Flood Elevation. You may note that the project improvements include the replacement of the existing undersized culvert which conveys a small stream beneath the site. The larger replacement culvert that will be installed will reduce the frequency of local flooding in the area and lessen the effects of the backwater condition that occurs during periods of flooding on the Walkkill River.

As shown on the attached *Floodplain Development Exhibit*, the total area of fill to be placed in the existing floodplain is approximately 20,000 square feet, which amounts to approximately 0.66% of the total floodplain area along this section of the Walkkill River between the Sturgeon Pool dam and the confluence of the Rondout Creek. The Rondout Creek is located approximately 2,500 feet downstream of the proposed upgraded substation site. The majority of the fill to be placed within the FEMA designated Zone AE floodplain will raise the elevation of the site's access driveway to ensure improved accessibility, which is critical for maintaining site operations during flooding events. Further, the improvements are located well off the main stem of the Walkkill River and isolated from the river by a strip of land that is only subject to backwater effects from the Rondout Creek. Accordingly, the proposed improvements will pose no concerns with regards to increasing floodwater velocity during flooding events.

Please accept this Floodplain Development Permit application and professional certification that the cumulative effect of the improvements proposed and depicted on the attached *Floodplain Development Exhibit* will not result in a measurable increase in the Base Flood Elevation or increase floodwater flow velocity during flooding events.

Thank you for your attention to this matter. Please feel free to contact me at your earliest convenience with any questions or comments.



Sincerely,
David Clouser & Associates

A handwritten signature in cursive script that reads "David B. Clouser".

David B. Clouser, PE, LS
NYS Professional Engineer No. 069334

Encl.: Floodplain Development Permit Application (in duplicate)
Floodplain Development Exhibit, dated 7/22/14 (in duplicate)
FEMA Flood Insurance Rate Map (No. 36111C0610E)

cc: Chris DeRoberts, Environmental Coordinator / CHG&E
Gary Cassaro, Project Manager / CHG&E
Kevin Bernstein, Esq., Project Attorney

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For the Flood Insurance Study report for this jurisdiction. If more information is available in this community, contact your insurance agent or the National Flood Insurance Program at 1-800-638-6620.



MAP SCALE 1" = 1000'



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0610E

FIRM FLOOD INSURANCE RATE MAP ULSTER COUNTY, NEW YORK (ALL JURISDICTIONS)

PANEL 610 OF 910
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ESOPUS, TOWN OF	36085	0610	F
ROSENDALE, TOWN OF	36082	0610	E

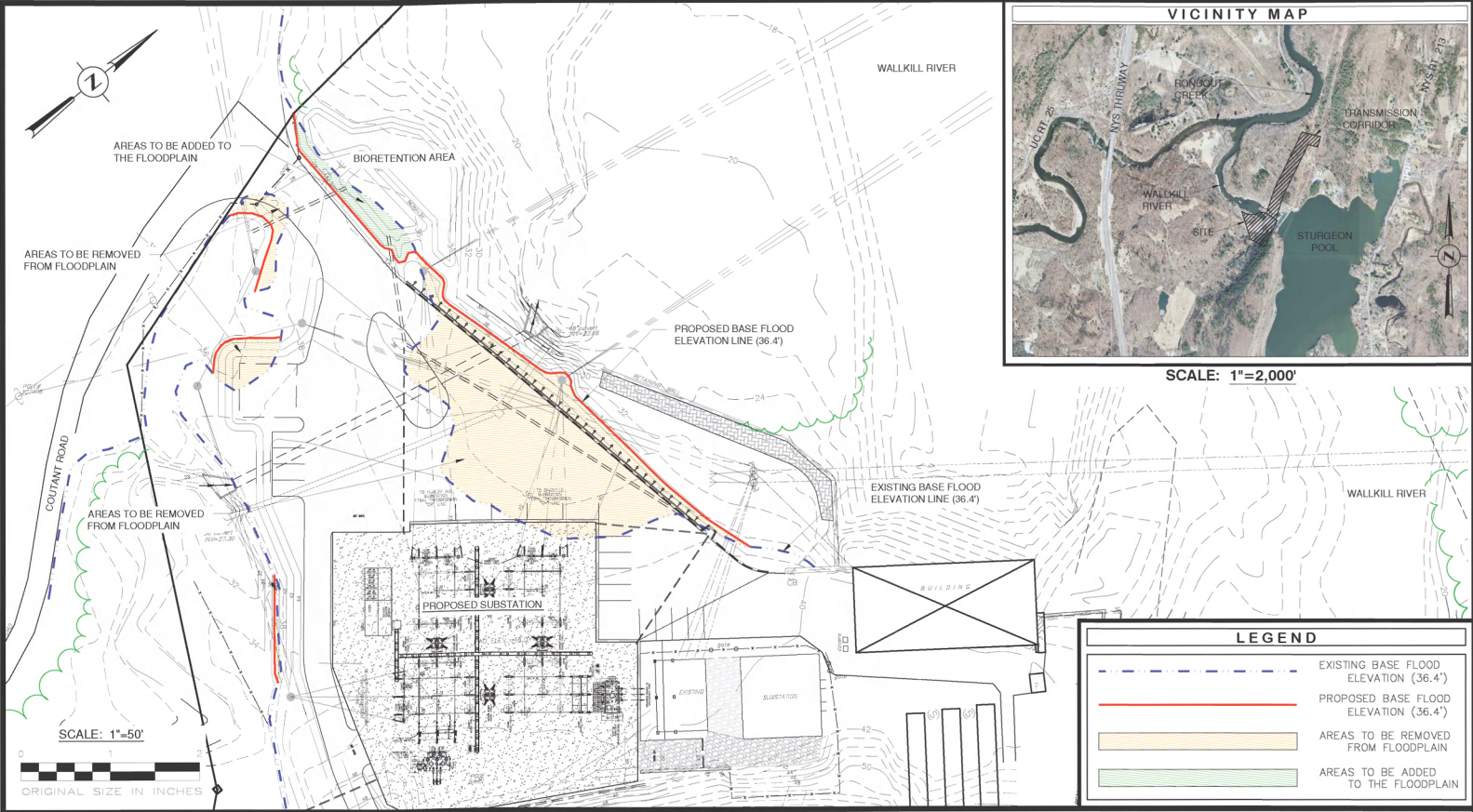
Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
36111C0610E

EFFECTIVE DATE
SEPTEMBER 25, 2009

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



LEGEND	
	EXISTING BASE FLOOD ELEVATION (36.4')
	PROPOSED BASE FLOOD ELEVATION (36.4')
	AREAS TO BE REMOVED FROM FLOODPLAIN
	AREAS TO BE ADDED TO THE FLOODPLAIN

 © David Clouser & Associates	REV	DATE	DESCRIPTION

David Clouser & Associates
 Professional Engineers & Land Surveyors

 1 Paradiso Lane - Suite 200 New Paltz, NY 12561
 Phone: (845) 256-9600 Fax: (845) 256-0700
 www.dcaenr.com

FLOODPLAIN DEVELOPMENT EXHIBIT

STURGEON POOL SUBSTATION
 CENTRAL HUDSON GAS & ELECTRIC CORP.
 234 COUTANT ROAD TOWN OF ROSENDALE
 ULSTER COUNTY, NEW YORK

DATE	DRAWN BY
7/22/14	MLT
PROJECT NO.	
70064.01	
SHEET NO.	
EXH-FP	