

# **Appendix F**

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## 10-Year Plan



**HESS CORPORATION**  
Tioga Gas Plant  
10384 68th St NW  
Tioga, North Dakota 58852  
701-664-6200

June 7, 2012

**RECEIVED**

**JUL 16 2012**

PUBLIC SERVICE COMMISSION – State Capitol  
Director of Administration  
600 East Boulevard, Dept 408  
Bismarck, ND 58505-0480

**PUBLIC SERVICE COMMISSION**

RE: HESS CORPORATION – 2012 Ten-Year Plan  
Our File No. 19410

Dear Director of Administration:

Enclosed for filing please find the original and ten copies of HESS CORPORATION's 2012 Ten-Year Plan.

Very truly yours,

Rory D. Nelson  
Plant Manager

RDN/so  
Enclosure



**HESS CORPORATION**  
Tioga Gas Plant  
10384 68th St NW  
Tioga, North Dakota 58852  
701-664-6200

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June 7, 2012

PUBLIC SERVICE COMMISSION – State Capitol  
Director of Administration  
600 East Boulevard, Dept 408  
Bismarck, ND 58505-0480

RE: HESS CORPORATION – 2012 Ten-Year Plan  
Our File No. 19410

Dear Director of Administration:

On behalf of HESS CORPORATION ("HESS"), we hereby submit HESS's Ten-Year Plan pursuant to North Dakota Century Code § 49-22-04 and North Dakota Administrative Code Chapter 69-06-02.

SECTION A: Existing Energy Conversion Facilities.

HESS originally had no energy conversion facilities as defined in North Dakota Century Code § 49-22-03(5); but now has the Tioga Gas Plant expansion underway.

SECTION B: Energy Conversion Facilities Under Construction.

HESS Tioga Gas Plant expansion is underway in 2011 with target completion date the third quarter of 2013.

SECTION C: Proposed Energy Conversion Facilities on Which Construction is Intended Within the Ensnuing Five Years.

HESS's \$600 million expansion of the Tioga Gas Plant to increase the inlet gas capacity from 120 MMscfd to 250 MMscfd, the ngl recovery capacity from 8,000 bpd of propane, butane, and natural gasoline to 30,000 bpd of propane, butane, and natural gasoline, as well as 30,000 bpd of ethane (which is not recovered as a liquid at this time) continues. This expansion work will continue through 2012 and to the third quarter of 2013.

SECTION D: Proposed Energy Conversion Facilities During the Next Ten-Year Time Period.

HESS has no other proposed energy conversion facilities during the next ten-year time period other than what is mentioned in Section C.

SECTION E: Existing Transmission Facilities (Electric).

HESS has no existing electrical transmission facilities.

SECTION F: Existing Transmission Facilities (Pipeline).

1. Location: HESS currently has in operation a pipeline beginning at its gas plant located at Tioga, North Dakota, extending southerly under Lake Sakakawea and then extending in a southwesterly direction to an interconnect point with the Northern Border pipeline south of Watford City, North Dakota. This pipeline was constructed pursuant to Public Service Commission Certificate of Site Compatibility for Transmission Facility Corridor #62 issued on March 11, 1992, and Public Service Commission Permit for the Construction of a Transmission Facility #72 issued on July 21, 1992. Upon completion of the pipeline HESS provided the Commission with a copy of the design specifications for the construction of the pipeline showing the location of the pipeline as built as required in the Findings of Fact, Conclusions of Law and Order dated July 21, 1992, as issued by the Commission in Case No. PU-476-92-138. Attached hereto is a system map showing the location of the actual pipeline route.
  
2. Type and Capacity: The design specifications for the facility are as follows:
  - (a) Product Type - natural gas
  
  - (b) Length of Facility in Miles - approximately 61
  
  - (c) Pipe Size - 10.75 inches O.D.
  
  - (d) Maximum Design Operating Pressure - 1440 pounds per square inch gage (psig)
  
  - (e) Maximum Design Flow Rate - 65 million standard cubic feet per day (mmscfd)
  
  - (f) Compressor or pumping station specifications, including type, horse power, output pressure, and capacity -
    - (i) Tioga Compressor Station  
Type: 3 centrifugal  
Suction Pressure: 700 psig  
Discharge Pressure: 1300 psig  
Station Horsepower: 6750 hp  
Maximum Capacity: 99 mmcfd

(ii) Cherry Creek Compressor Station

Type: (2) reciprocating

Suction Pressure: 875 psig

Discharge Pressure: 1420 psig

Station Horsepower: 1600 hp

Maximum Capacity: 65 mmcf/d

(g) Minimum Cover Over Pipe - 48 inches, except in a situation where rock makes 48 inches impractical.

3. In-service date for the pipeline was December, 1992.

4. There is no projected retirement date during the next ten-year period for the pipeline facility.

SECTION G: Proposed Transmission Facilities on Which Construction is Intended Within the Ensuing Five Years (Electric).

HESS has no proposed electric transmission facilities on which construction is intended within the ensuing five years.

SECTION H: Proposed Transmission Facilities on Which Construction is Intended Within the Ensuing Five Years (Pipeline).

HESS plans to install three NGL Product sales pipelines approximately 3.6 miles from the Hess Tioga Gas Plant to the newly constructed Hess Tioga Rail Terminal west of the city of Tioga at an estimated cost of \$33 million. The intent will be to sell our propane, butane, and natural gasoline liquid products by rail cars at the Tioga Rail Terminal in 2013, when the Tioga Gas Plant expansion is complete.

SECTION I: Proposed Transmission Facilities During the Next Ten-Year Time Period (Electric and Pipeline).

HESS has no proposed electric or pipeline transmission facilities proposed during the next ten-year time period other than what is mentioned in Section H.

SECTION J: Regional Coordination.

One of the purposes of the pipeline is to deliver gas into the existing pipeline facility of the Northern Border Pipeline Company for transportation of such gas to HESS's customers. However, HESS's pipeline is not part of a single regional plan.

SECTION K: Environmental Information.

The pipeline has been constructed in strict accordance with the requirements of the U.S. Department of Transportation Pipeline Safety Regulations found at CFR Title 49, Part 192, "Transportation of Natural and Other Gases by Pipeline: Minimum Federal Safety Standards," and ASME B31.8, "Gas Transmission and Distribution Piping Systems." The pipeline was hydrostatically tested in accordance with CFR Title 49, Part 192, Sub-part J to establish the maximum allowable operating pressure of 1440 psig.

HESS CORPORATION has also installed a fiber optic communications system which allows for 24-hour monitoring of the pipeline and compressor operations. The pipeline is also designed to accommodate the use of instrumented internal inspection devices that can be propelled through the pipeline by the flowing gas stream and can effectively detect and record the type and location of corrosion or other defects in the pipe wall. In conjunction HESS has in place a regular pipeline cathodic protection program.

Wooded areas and shelter belts that were removed have been replanted with approximately 300 new trees. This is two new trees for every one removed during construction.

HESS has made an agreement with the U.S. Fish and Wildlife Service for provisions relative to the rehabilitation of wooded draw habitat on U.S. Forest Service land as mitigation for habitat disturbed during the pipeline construction.

HESS's obligation to reclaim and maintain the right-of-way shall continue throughout the life of the pipeline facility.

SECTION L: Projected Demand for Service.

The projected future supplies of gas entering the pipeline will be produced from (a) several fields located in Divide, Williams, Mountrail, McKenzie and Burke Counties, (b) the Winnipeg and Deadwood formations from certain wells to be located in the McKenzie and Williams Counties, and (c) the expansion of the plant and pipeline facilities in conjunction with the growth of the Bakken development taking place in North Dakota.

Respectfully submitted the day and year set forth above.

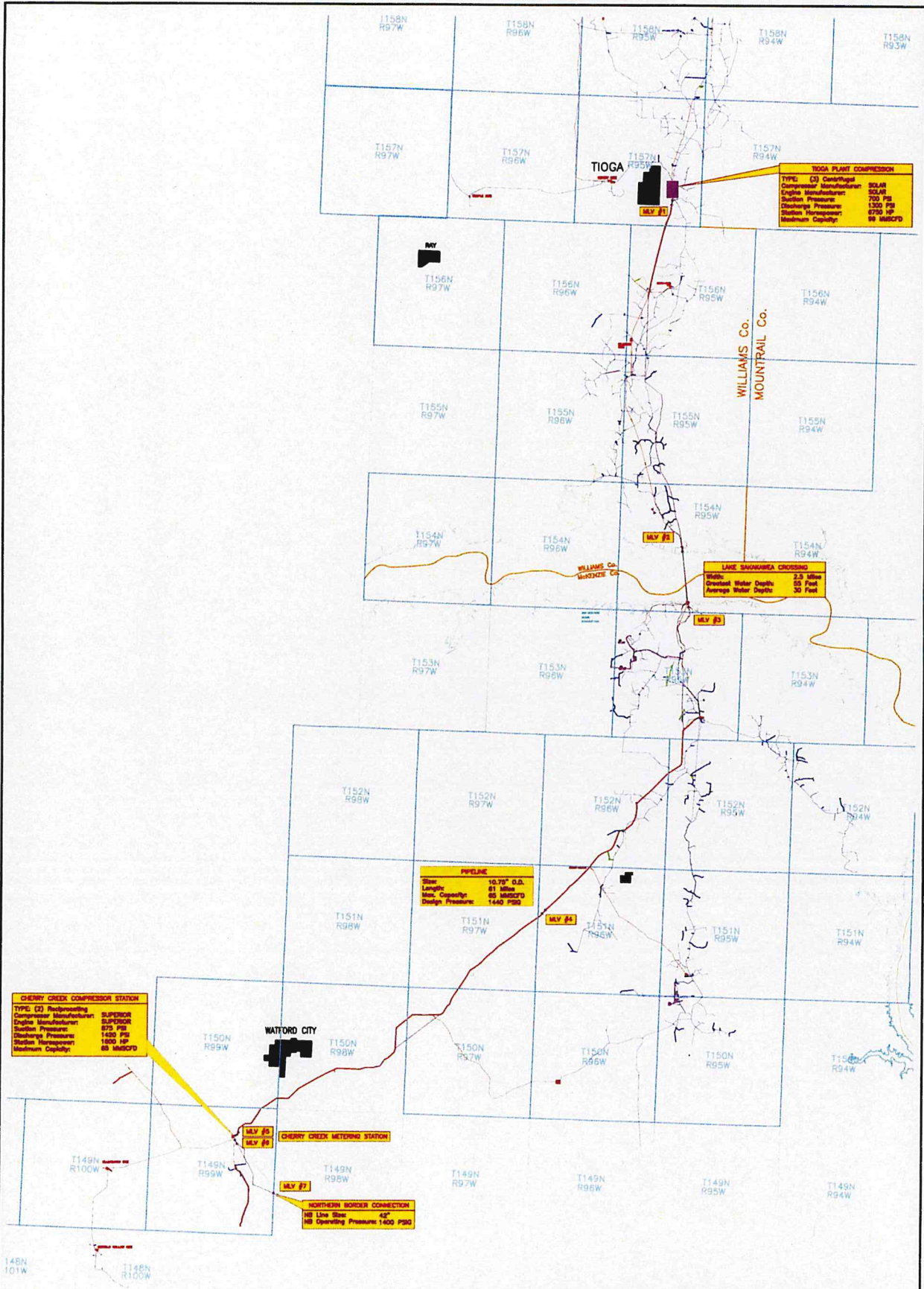
HESS CORPORATION  
Tioga Gas Plant  
10384 68<sup>th</sup> St NW  
Tioga, North Dakota 58852

By

  
RORY D. NELSON

RDN/so  
Enc.

- cc:
- County Auditors of McKenzie and Williams Counties
  - State Agencies and Officers designated in § 69-06-01-05, ND Adm Code "Notice of Filing"
  - Brock Hajdik, Gas Plant Manager - Houston, TX



**TIoga PLANT COMPRESSION**  
 TYPE: C3  
 Compressor Manufacturer: SOLAR  
 Engine Manufacturer: SOLAR  
 Station Pressure: 700 PSIG  
 Discharge Pressure: 1300 PSIG  
 Station Horsepower: 8750 HP  
 Maximum Capacity: 99 MMSCFD

**LIVE SINKAWERA CROSSING**  
 Static Water Depth: 2.5 Miles  
 Greatest Water Depth: 65 Feet  
 Average Water Depth: 30 Feet

**PIPELINE**  
 Size: 10.75" O.D.  
 Length: 61 Miles  
 Max. Capacity: 69 MMSCFD  
 Design Pressure: 1440 PSIG

**CHERRY CREEK COMPRESSOR STATION**  
 TYPE: C2 Redesigning  
 Compressor Manufacturer: SUPERIOR  
 Engine Manufacturer: SUPERIOR  
 Station Pressure: 975 PSIG  
 Discharge Pressure: 1400 PSIG  
 Station Horsepower: 1800 HP  
 Maximum Capacity: 65 MMSCFD

**NORTHERN BORDER CONNECTION**  
 NB Line Size: 42"  
 NB Operating Pressure: 1400 PSIG

**LEGEND**

- LOW PRESSURE
- HIGH PRESSURE
- NDNGPL
- FUEL GAS
- COUNTY LINE
- ⋈ MAIN LINE VALVE

**HESS** AMERADA HESS CORPORATION  
 EXPLORATION AND PRODUCTION

**NATURAL GAS PIPELINE**

2	F-B	UPDATED DATA	G.V.	
1	H-B	UPDATED HORSEPOWER DATA	G.V.	
0	F-B	UPDATE AND REDRAW ON CAD	G.V.	
NO. DATE	REVISION	BY	CHKD	APP'D

DESIGN BY: WORKERT  
 CHECKED BY: WORKERT  
 SCALE: AS SHOWN  
 DATE: 6-22-01  
 SHEET NO.: TP-D-9-RGP  
 REV: 2

AFFIDAVIT OF SERVICE BY MAIL

STATE OF NORTH DAKOTA    )  
  )  
COUNTY OF WILLIAMS        )

Susan Odegaard, being first duly sworn on oath, deposes and says: That she is a citizen of the United States over the age of eighteen years and not a party to, nor interested in, the above entitled action.

That on the 14th day of July, 2012, this affiant did deposit in the United States post office at Tioga, North Dakota, a true and correct copy of the following document:

HESS CORPORATION's 2012 Ten-Year Plan dated June 7, 2012.

That the document with postage prepaid was mailed, directed to the persons to be served at their last known post office address as follows:

Linda Svihovec  
MCKENZIE COUNTY AUDITOR  
Courthouse  
P.O. Box 543  
Watford City, ND 58854

Beth M. Innis  
WILLIAMS COUNTY AUDITOR  
Courthouse  
Box 2047  
Williston, ND 58802-2047

That "Notice of Filing" of document with postage prepaid was mailed, directed to the persons to be served at their last known post office address as follows:

Larry Taborsky, Director  
NORTH DAKOTA STATE  
AERONAUTICS COMMISSION  
Box 5020  
Bismarck, ND 58502-5020

Wayne Stenehjem, Attorney General  
OFFICE OF THE ATTORNEY GENERAL  
600 E. Boulevard Ave, Dept 125  
Bismarck, ND 58505

Doug Goehring, Commissioner  
DEPARTMENT OF AGRICULTURE  
600 E. Boulevard Ave, Dept 602  
Bismarck, ND 58505-0020

Terry Dwelle, M.D.  
State Health Officer  
NORTH DAKOTA DEPARTMENT OF HEALTH  
600 East Boulevard Ave  
Bismarck, ND 58505-0200

Carol K. Olson, Executive Director  
DEPARTMENT OF HUMAN SERVICES  
600 E Boulevard Ave, Dept 325  
Bismarck, ND 58505-0250

Tony J. Weiler, Commissioner  
DEPARTMENT OF LABOR  
600 E. Boulevard Ave, Dept 406  
Bismarck, ND 58505-0340

Wayne Kutzer, State Director and Executive Officer  
ND DEPT OF CAREER & TECHNICAL EDUCATION  
600 E. Boulevard Ave, Dept 270  
Bismarck, ND 58505-0610

Paul Lucy, Director  
ECONOMIC DEVELOPMENT & FINANCE  
P.O. Box 2057  
Bismarck, ND 58502-2057

Jeff Engleson, Director  
ENERGY INFRASTRUCTURE AND IMPACT OFFICE  
C/O ND State Land Department  
P.O. Box 5523  
Bismarck, ND 58506-5523

Terry Steinwand, Director  
GAME AND FISH DEPARTMENT  
100 North Bismarck Expressway  
Bismarck, ND 58501-5095

Edward C. Murphy, State Geologist  
NORTH DAKOTA GEOLOGICAL SURVEY  
600 E. Boulevard Ave  
Bismarck, ND 58505-0840

Honorable Jack Dalrymple  
OFFICE OF THE GOVERNOR  
600 E. Boulevard Ave  
Bismarck, ND 58505-0001

Francis G. Ziegler, P.E., Director  
DEPARTMENT OF TRANSPORTATION  
608 E. Boulevard Ave  
Bismarck, ND 58505-0700

Merlan E. Paaverud, Director  
STATE HISTORICAL SOCIETY OF NORTH DAKOTA  
North Dakota Heritage Center, Capitol Grounds  
612 E. Boulevard Ave  
Bismarck, ND 58505-0830

Scott J. Davis, Executive Director  
INDIAN AFFAIRS COMMISSION  
600 East Boulevard Ave  
1<sup>st</sup> Floor Judicial Wing, Rm 117  
Bismarck, ND 58505

Maren L. Daley, Executive Director  
JOB SERVICE NORTH DAKOTA  
P. O. Box 5507  
Bismarck, ND 58506-5507

Lance Gaebe, Land Commissioner  
ND STATE LAND DEPARTMENT  
P.O. Box 5523  
Bismarck, ND 58506-5523

Mark Zimmerman, Director  
PARKS AND RECREATION DEPARTMENT  
1600 E Century Ave, Suite 3  
Bismarck, ND 58503-0649

Paul Govig, Director  
ND DIVISION OF COMMUNITY SERVICES  
P.O. Box 2057  
Bismarck, ND 58502-2057

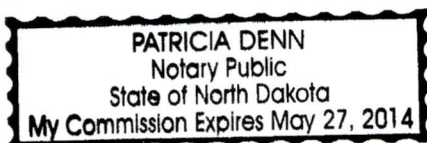
Scott Hochhalter, State Soil Specialist  
ND STATE SOIL CONSERVATION COMMITTEE  
NDSU Extension Service  
2718 Gateway Ave, Suite 104  
Bismarck, ND 58503


Todd Sando, State Engineer  
STATE WATER COMMISSION  
900 East Boulevard Ave, Dept 770  
Bismarck, ND 58505-0850

That she knew the persons served to be the persons named in the papers served and the persons intended to be served.

  
Susan Odegaard

Subscribed and sworn to before me this 13<sup>th</sup> day of July, 2012.



  
Williams County, North Dakota  
My Commission Expires: *May 27, 2014*