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REPORT NAME: 2016 Affiliated Interst Report and Cost Allocation Manual

COMPANY NAME: NW Natural Gas Company

DOES REPORT CONTAIN CONFIDENTIAL INFORMATION? No Yes

If yes, please submit only the cover letter electronically. Submit confidential information as directed in OAR 860-001-0070 or the terms of an applicable protective order.

If known, please select designation: RE (Electric) RG (Gas) RW (Water) RO (Other)

Report is required by: OAR OAR 860-027-0100 and 860-027-0048(6)

Statute

Order

Other

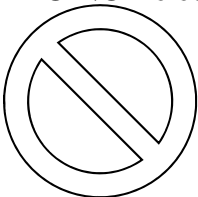
Is this report associated with a specific docket/case? No Yes

If yes, enter docket number: RG 8

List applicable Key Words for this report to facilitate electronic search:

Affiliated Interest Report, Cost Allocation Manual, Reporting Year 2016, NW Natural, RG 8

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Please file the above reports according to their individual instructions.

GAIL HAMMER
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VIA ELECTRONIC FILING AND US MAIL

June 1, 2017

Public Utility Commission of Oregon
Attn: Filing Center
201 High Street SE, Suite 100
Post Office Box 1088
Salem, Oregon 97308-1088

Re: RG 8 - 2016 Affiliated Interest Report and Cost Allocation Manual

Pursuant to OAR 860-027-0100 and OAR 860-027-0048(6), enclosed please find the 2016 Affiliated Interest Report and Cost Allocation Manual, for Northwest Natural Gas Company, dba NW Natural ("NW Natural" or "Company").

Please note that Exhibit A of the enclosed Affiliated Interest Report is to be treated as confidential. Pursuant to OAR 860-001-0070, Northwest Natural Gas Company designates Exhibit A as confidential in good faith on the basis that it contains trade secrets.

The Master Services Agreement has been updated and was also filed today as recommended in the March 7, 2017 OPUC Staff Audit Report of NW Natural.

Exhibit A has been printed on yellow paper, is separately bound, and sealed in an envelope bearing the legend: "CONFIDENTIAL." No portion of these materials may be copied, reproduced, or disclosed in any manner without the express permission of Northwest Natural Gas Company.

If you have any questions or need further information, please let me know.

Sincerely,

/s/ Gail Hammer

Gail Hammer

enclosures

cc: Shawn Filippi
Frank Burkhartsmeier
Alison Pear

NORTHWEST NATURAL GAS COMPANY
 AFFILIATED INTEREST REPORT
 FOR THE CALENDAR YEAR ENDING DECEMBER 31, 2016

I. An organization chart showing the parent company, all subsidiaries, and the percentage ownership for each.

See the Organizational Chart (“Chart 1”) of Northwest Natural Gas Company (“NWN”) attached to this Affiliated Interest Report. See also the information provided under (A) below.

(A) 2016 changes in the list of directors and/or officers common to the regulated utility and to the affiliated interest.

NORTHWEST NATURAL GAS COMPANY¹

DIRECTORS

Tod R. Hamachek, Chair	C. Scott Gibson
Timothy P. Boyle	David H. Anderson ²
Martha L. (“Stormy”) Byorum	Jane L. Peverett
John D. Carter	Kenneth Thrasher
Mark S. Dodson	Malia H. Wasson

OFFICERS

<u>Names</u>	<u>2016</u>
David H. Anderson	President and Chief Executive Officer ²
Brody J. Wilson	Interim Chief Financial Officer, Interim Treasurer, Chief Accounting Officer and Controller ^{3,4}

¹ Directors and Officers as of December 31, 2016. Changes that occurred during 2016 or after December 31, 2016, have been noted.

² Mr. Gregg S. Kantor ceased serving as Chief Executive Officer and a member of the Board of Directors as of July 31, 2016. Mr. Anderson was appointed as a member of the Board of Directors and to the position of Chief Executive Officer as of August 1, 2016. Mr. Anderson continued to serve as President.

³ Mr. Gregory C. Hazelton was appointed Senior Vice President, Chief Financial Officer and Treasurer as of February 25, 2016. Mr. Hazelton had been previously serving as Senior Vice President and Chief Financial Officer. Mr. Hazelton resigned as Senior Vice President, Chief Financial Officer and Treasurer as of September 2, 2016.

⁴ Mr. Wilson was appointed Controller, Chief Accounting Officer and Assistant Treasurer as of February 25, 2016. Mr. Wilson had been previously serving as Controller and Chief Accounting Officer. Mr. Wilson was appointed Chief Financial Officer (interim), Treasurer (interim), Chief Accounting Officer and Controller as of September 2, 2016. He had been previously serving as Controller, Chief Accounting Officer and Assistant Treasurer. Mr. Wilson was appointed Vice President, Treasurer, Controller and Chief Accounting Officer as of May 17, 2017. Frank Burkhartsmeier has been appointed Senior Vice President and Chief Financial Officer as of May 17, 2017.

Lea Anne Doolittle	Senior Vice President and Chief Administrative Officer
Thomas J.M. Imeson	Vice President, Public Affairs
MardiLyn Saathoff	Senior Vice President, General Counsel and Regulation ^{5,6}
Lori L. Russell	Vice President, Utility Services ^{7,8}
Grant M. Yoshihara	Senior Vice President, Utility Operations ⁹
Shawn M. Filippi	Vice President, Corporate Secretary and Chief Compliance Officer ¹⁰
Ngoni Murandu	Vice President and Chief Information Officer ¹¹
Justin Palfreyman	Vice President, Business Development ¹²

NNG FINANCIAL CORPORATION

Wholly-owned subsidiary of Northwest Natural Gas Company
 Type of operations: Financial
 Year Created: 1984

BOARD OF DIRECTORS

David H. Anderson, Chair*
 MardiLyn Saathoff*
 Brody J. Wilson*

(*Officer of NWN)

CHANGES IN MEMBERS OF THE BOARD

- Lea Anne Doolittle resigned and Gregory C. Hazelton and MardiLyn Saathoff were appointed as directors as of February 1, 2016.

⁵ Ms. Saathoff was appointed Senior Vice President, General Counsel and Regulation as of February 25, 2016. Ms. Saathoff had been previously serving as Senior Vice President and General Counsel.

⁶ Mr. C. Alex Miller retired as Vice President, Regulation and Treasurer as of February 25, 2016

⁷ Ms. Russell was appointed Vice President, Utility Services as of April 1, 2016.

⁸ Mr. David R. Williams retired as Vice President, Utility Services as of March 31, 2016.

⁹ Mr. Yoshihara was appointed Senior Vice President, Utility Operations as of July 28, 2016. Mr. Yoshihara had been previously serving as Vice President, Utility Operations.

¹⁰ Ms. Filippi was appointed Chief Compliance Officer as of February 25, 2016. Ms. Filippi had been previously serving as Vice President and Corporate Secretary.

¹¹ Mr. Murandu was appointed Vice President and Chief Information Officer as of February 25, 2016. Mr. Murandu resigned as Vice President and Chief Information Officer as of April 28, 2017.

¹² Mr. Palfreyman was appointed Vice President, Business Development as of September 30, 2016. Mr. Palfreyman was appointed Vice President, Strategy and Business Development, as of February 23, 2017.

- Gregg S. Kantor resigned as Chairman and director as of July 31, 2016.
- David H. Anderson became the Chairman as of August 1, 2016.
- Gregory C. Hazelton resigned and Brody J. Wilson was appointed as a director as of September 2, 2016.
- Frank Burkhardtmeier replaced Brody J. Wilson as a director as of May 17, 2017.

OFFICERS OF THE CORPORATION

David H. Anderson*	President and Chief Executive Officer
Brody J. Wilson*	Treasurer and Controller
Shawn M. Filippi*	Corporate Secretary
Alison M. Pear	Assistant Corporate Secretary

(*Officer of NWN)

CHANGES IN OFFICERS

- Gregory C. Hazelton resigned as Senior Vice President and Treasurer as of February 2, 2016.
- Brody J. Wilson was appointed Treasurer and Controller as of February 2, 2016.
- MardiLyn Saathoff resigned as Assistant Corporate Secretary as of February 2, 2016.
- Alison M. Pear was appointed Assistant Corporate Secretary as of February 2, 2016.
- David W. Aimone resigned as Assistant Treasurer as of February 2, 2016.

KB PIPELINE COMPANY

Wholly-owned subsidiary of NNG Financial Corporation
 Type of Operations: Gas Pipeline, Owner
 Year Created: 1991

BOARD OF DIRECTORS

David H. Anderson, Chair*
 Brody J. Wilson*
 MardiLyn Saathoff*

(*Officer of NWN)

CHANGES IN MEMBERS OF THE BOARD

- Lea Anne Doolittle resigned and Gregory C. Hazelton and MardiLyn Saathoff were appointed as directors as of February 1, 2016.
- Gregg S. Kantor resigned as Chairman and director as of July 31, 2016.
- David H. Anderson became the Chairman as of August 1, 2016.

- Gregory C. Hazelton resigned and Brody J. Wilson was appointed as a director as of September 2, 2016.
- Frank Burkhartsmeyer replaced Brody J. Wilson as a director as of May 17, 2017.

OFFICERS OF THE COMPANY

J. Keith White	President
Randolph S. Friedman	Vice President
Brody J. Wilson*	Treasurer and Controller
Shawn M. Filippi*	Corporate Secretary
Alison M. Pear	Assistant Corporate Secretary

(*Officer of NWN)

CHANGES IN OFFICERS

- C. Alex Miller retired as Treasurer as of February 2, 2016.
- Brody J. Wilson was appointed Treasurer and Controller as of February 2, 2016.
- MardiLyn Saathoff resigned as Assistant Corporate Secretary as of February 2, 2016.
- Alison M. Pear was appointed Assistant Corporate Secretary as of February 2, 2016.
- J. Keith White resigned as President as of February 1, 2017.
- Grant M. Yoshihara was appointed President as of February 1, 2017.

NORTHWEST ENERGY CORPORATION

Wholly-owned subsidiary of Northwest Natural Gas Company
 Type of Operations: Non-Operating Holding Company
 Year Created: 2001

BOARD OF DIRECTORS

David H. Anderson, Chair*
 Brody J. Wilson*
 MardiLyn Saathoff*

(*Officer of NWN)

CHANGES IN MEMBERS OF THE BOARD

- Gregory C. Hazelton was appointed as a director as of February 1, 2016.
- Gregg S. Kantor resigned as Chairman and director as of July 31, 2016.
- David H. Anderson became the Chairman as of August 1, 2016.
- Gregory C. Hazelton resigned and Brody J. Wilson was appointed as a director as of September 2, 2016.
- Frank Burkhartsmeyer replaced Brody J. Wilson as a director as of May 17, 2017.

OFFICERS OF THE CORPORATION

David H. Anderson*	President and Chief Executive Officer
Brody J. Wilson*	Treasurer and Controller
Shawn M. Filippi*	Corporate Secretary
Alison M. Pear	Assistant Corporate Secretary

(*Officer of NWN)

CHANGES IN OFFICERS

- David H. Anderson resigned as Senior Vice President and Chief Financial Officer as of February 2, 2016.
- Gregory C. Hazelton resigned as Treasurer and Controller as of February 2, 2016.
- Brody J. Wilson was appointed Treasurer and Controller as of February 2, 2016.
- MardiLyn Saathoff resigned as Assistant Corporate Secretary as of February 2, 2016.
- Alison M. Pear was appointed Assistant Corporate Secretary as of February 2, 2016.
- Gregg S. Kantor resigned as President and Chief Executive Officer as of July 31, 2016.
- David H. Anderson was appointed President and Chief Executive Officer as of August 1, 2016.

NORTHWEST ENERGY SUB CORPORATION

Wholly-owned subsidiary of Northwest Energy Corporation
Type of Operations: Non-Operating Merger Sub Corporation
Year Created: 2001

BOARD OF DIRECTORS

David H. Anderson, Chair*
Brody J. Wilson*
MardiLyn Saathoff*

(*Officer of NWN)

CHANGES IN MEMBERS OF THE BOARD

- Gregory C. Hazelton was appointed as a director as of February 1, 2016.
- Gregg S. Kantor resigned as Chairman and director as of July 31, 2016.
- David H. Anderson became the Chairman as of August 1, 2016.
- Gregory C. Hazelton resigned and Brody J. Wilson was appointed as a director as of September 2, 2016.
- Frank Burkhardtmeier replaced Brody J. Wilson as a director as of May 17, 2017.

OFFICERS OF THE CORPORATION

David H. Anderson*	President and Chief Executive Officer
Brody J. Wilson*	Treasurer and Controller
Shawn M. Filippi*	Corporate Secretary
Alison M. Pear	Assistant Corporate Secretary

(*Officer of NWN)

CHANGES IN OFFICERS

- David H. Anderson resigned as Senior Vice President and Chief Financial Officer as of February 2, 2016.
- Gregory C. Hazelton resigned as Treasurer and Controller as of February 2, 2016.
- Brody J. Wilson was appointed Treasurer and Controller as of February 2, 2016.
- MardiLyn Saathoff resigned as Assistant Corporate Secretary as of February 2, 2016.
- Alison M. Pear was appointed Assistant Corporate Secretary as of February 2, 2016.
- Gregg S. Kantor resigned as President and Chief Executive Officer as of July 31, 2016.
- David H. Anderson was appointed President and Chief Executive Officer as of August 1, 2016.

NWN GAS RESERVES LLC

Wholly-owned subsidiary of Northwest Energy Corporation

Type of Operations: Natural Gas Reserves Development

Year Created: 2013

MANAGEMENT

Manager-managed

Manager: Board of Directors

BOARD OF DIRECTORS

David H. Anderson*
Brody J. Wilson*
MardiLyn Saathoff*
Grant M. Yoshihara*

(*Officer of NWN)

CHANGES IN MEMBERS OF THE BOARD

- Gregory C. Hazelton was appointed as a director as of February 1, 2016.
- Grant M. Yoshihara was appointed as a director as of May 1, 2016.

- Gregg S. Kantor resigned as Chairman and director as of July 31, 2016.
- David H. Anderson became the Chairman as of August 1, 2016.
- Gregory C. Hazelton resigned and Brody J. Wilson was appointed as a director as of September 2, 2016.
- Frank Burkhardtmeier replaced Brody J. Wilson as a director as of May 17, 2017.

OFFICERS OF THE LIMITED LIABILITY COMPANY

David H. Anderson*	President and Chief Executive Officer
Brody J. Wilson*	Treasurer and Controller
Shawn M. Filippi*	Corporate Secretary
Alison M. Pear	Assistant Corporate Secretary

(*Officer of NWN)

CHANGES IN OFFICERS

- David H. Anderson resigned as Senior Vice President and Chief Financial Officer as of February 2, 2016.
- Gregory C. Hazelton resigned as Treasurer and Controller as of February 2, 2016.
- Brody J. Wilson was appointed Treasurer and Controller as of February 2, 2016.
- MardiLyn Saathoff resigned as Assistant Corporate Secretary as of February 2, 2016.
- Alison M. Pear was appointed Assistant Corporate Secretary as of February 2, 2016.
- Gregg S. Kantor resigned as President and Chief Executive Officer as of July 31, 2016.
- David H. Anderson was appointed President and Chief Executive Officer as of August 1, 2016.

TRAIL WEST HOLDINGS, LLC

50% membership interest owned by NW Natural Energy, LLC

50% membership interest owned by TransCanada American Investment Ltd.

Type of Operations: Gas Pipeline Owner

Year created: 2006

MANAGEMENT

Management is by Management Committee consisting of: Russell Mahan, TransCanada and J. Keith White, NWN. Effective February 1, 2017, J. Keith White was replaced by Justin Palfreyman.

TRAIL WEST PIPELINE, LLC

Wholly-owned subsidiary of Trail West Holdings, LLC
Type of Operations: Gas Pipeline Owner and Operator
Year Created: 2006

MANAGEMENT

Management is by Management Committee of Trail West Holdings, LLC.

BL CREDIT HOLDINGS, LLC

Wholly-owned subsidiary of Trail West Pipeline, LLC.
Type of Operations: Gas Transportation
Year Created: 2009

MANAGEMENT

BL Credit Holdings, LLC is member-managed.

OFFICERS OF THE LIMITED LIABILITY COMPANY

No officers of NWN are officers of the limited liability company.

NW NATURAL ENERGY, LLC

Wholly-owned subsidiary of Northwest Natural Gas Company
Type of Operations: Holding Company
Year Created: 2009

MANAGEMENT

NW Natural Energy, LLC is manager-managed
Manager: Board of Directors

BOARD OF DIRECTORS

David H. Anderson*
Lea Anne Doolittle*
Brody J. Wilson*
MardiLyn Saathoff*

(*Officer of NWN)

CHANGES IN MEMBERS OF THE BOARD

- Gregg S. Kantor resigned as Chairman and director as of July 31, 2016.
- David H. Anderson became the Chairman as of August 1, 2016.
- Gregory C. Hazelton resigned and Brody J. Wilson was appointed as a director as of September 2, 2016.

- Frank Burkhartsmeyer replaced Brody J. Wilson as a director as of May 17, 2017.

OFFICERS OF THE LIMITED LIABILITY COMPANY

David H. Anderson*	President and Chief Executive Officer
Brody J. Wilson*	Treasurer and Controller
Shawn M. Filippi*	Corporate Secretary
Alison M. Pear	Assistant Corporate Secretary

(*Officer of NWN)

CHANGES IN OFFICERS

- C. Alex Miller retired as Treasurer as of February 1, 2016.
- Brody J. Wilson was appointed Treasurer and Controller as of February 1, 2016.
- MardiLyn Saathoff resigned as Assistant Corporate Secretary as of February 1, 2016.
- Alison M. Pear was appointed Assistant Corporate Secretary as of February 1, 2016.
- Justin Palfreyman was appointed Vice President as of February 1, 2017.

NW NATURAL GAS STORAGE, LLC

Wholly-owned subsidiary of NW Natural Energy, LLC

Type of Operations: Natural Gas Storage Development and Holding Company

Year Created: 2009

MANAGEMENT

NW Natural Gas Storage, LLC is manager-managed

Manager: Board of Directors

BOARD OF DIRECTORS

David H. Anderson*
 Lea Anne Doolittle*
 Brody J. Wilson*
 MardiLyn Saathoff*

(*Officer of NWN)

CHANGES IN MEMBERS OF THE BOARD

- Gregg S. Kantor resigned as Chairman and director as of July 31, 2016.
- David H. Anderson became the Chairman as of August 1, 2016.
- Gregory C. Hazelton resigned and Brody J. Wilson was appointed as a director as of September 2, 2016.
- Frank Burkhartsmeyer replaced Brody J. Wilson as a director as of May 17, 2017.

OFFICERS OF THE LIMITED LIABILITY COMPANY

David A. Weber	President and Chief Executive Officer
Brody J. Wilson*	Treasurer and Controller
Shawn M. Filippi*	Corporate Secretary
Alison M. Pear	Assistant Corporate Secretary

(*Officer of NWN)

CHANGES IN OFFICERS

- C. Alex Miller retired as Vice President and Treasurer as of February 1, 2016.
- Brody J. Wilson was appointed Treasurer and Controller as of February 1, 2016.
- MardiLyn Saathoff resigned as Assistant Corporate Secretary as of February 1, 2016.
- Alison M. Pear was appointed Assistant Corporate Secretary as of February 1, 2016.
- Justin Palfreyman was appointed Vice President as of February 1, 2017.

GILL RANCH STORAGE, LLC

Wholly-owned subsidiary of NW Natural Gas Storage, LLC
Type of Operations: Natural Gas Storage
Year Created: 2007

MANAGEMENT

Gill Ranch Storage, LLC is manager-managed
Manager: Board of Directors

BOARD OF DIRECTORS

David H. Anderson*
Lea Anne Doolittle*
Brody J. Wilson*
MardiLyn Saathoff*

(*Officer of NWN)

CHANGES IN MEMBERS OF THE BOARD

- Gregg S. Kantor resigned as Chairman and director as of July 31, 2016.
- David H. Anderson became the Chairman as of August 1, 2016.
- Gregory C. Hazelton resigned and Brody J. Wilson was appointed as a director as of September 2, 2016.
- Frank Burkhardtmeier replaced Brody J. Wilson as a director as of May 17, 2017.

OFFICERS OF THE LIMITED LIABILITY COMPANY

David A. Weber	President and Chief Executive Officer
Brody J. Wilson*	Treasurer and Controller
Shawn M. Filippi*	Corporate Secretary
Alison M. Pear	Assistant Corporate Secretary

(*Officer of NWN)

CHANGES IN OFFICERS

- C. Alex Miller retired as Vice President, Treasurer and Director of Regulatory Affairs as of February 1, 2016.
- Brody J. Wilson was appointed Treasurer and Controller as of February 1, 2016.
- MardiLyn Saathoff resigned as Assistant Corporate Secretary as of February 1, 2016.
- Alison M. Pear was appointed Assistant Corporate Secretary as of February 1, 2016.
- Justin Palfreyman was appointed Vice President as of February 1, 2017.

NORTHWEST BIOGAS, LLC

50% membership interest owned by Northwest Natural Gas Company
50% membership interest owned by BEF Renewable Incorporated
Type of Operations: Biodigester Owner
Year Created: 2008

Northwest Biogas, LLC is member-managed
Managing Member: Northwest Natural Gas Company

MANAGEMENT

Northwest Biogas, LLC is member-managed
Managing Member: Northwest Natural Gas Company

OFFICERS OF THE LIMITED LIABILITY COMPANY

Angus Duncan	President
Barbara Summers	Vice President
Joanna Gilson	Secretary

CHANGES IN OFFICERS

- No changes.

(B) *Changes in successive ownership between the regulated utility and affiliated interest.*

None.

(C) A narrative description of each affiliated entity with which the regulated utility does business. State the factor(s) giving rise to the affiliation.

In addition to the information provided below, see the Cost Allocation Manual (“Appendix A”) included as an appendix to this Affiliated Interest Report for further descriptions of the activities of each affiliated interest or subsidiary with which NWN has transactions.

NNG Financial Corporation

NNG Financial Corporation (“NNGFC”) owns 100% of the stock of KB Pipeline Company (“KBPC”). See KBPC activities described below.

The affiliated transactions between NWN and NNGFC were:

- Allocations of NWN's administrative expense for NNGFC's use of NWN staff;
- D&O insurance is purchased by NWN for NNGFC, and is subsequently charged to NNGFC and reimbursed to NWN through intercompany billings;
- Distributions/contributions from NNGFC to NWN
- Payments between NWN and NNGFC for NNGFC's current tax expense or benefit; and
- Payments from NWN to NNGFC for KBPC demand and commodity transportation charges (as applicable).

KB Pipeline Company

KB Pipeline Company (“KBPC”) is a wholly-owned subsidiary of NNG Financial Corporation (“NNGFC”). KBPC owns a 10% interest in, and is the former operator of, an interstate natural gas pipeline known as the Kelso-Beaver Pipeline. The pipeline runs between Kelso, Washington and Clatskanie, Oregon, and is regulated by the Federal Energy Regulatory Commission (“FERC”). The other owners of the Kelso-Beaver Pipeline are Portland General Electric Company (“PGE”) (79.5%) and B-R Pipeline Company (10.5%). Each of the co-owners has a separate FERC certificate regarding the ownership and transportation of gas on its share of the pipeline. Pursuant to a memorandum from the Public Utility Commission of Oregon, dated October 15, 1992, KBPC is not required to file a separate affiliated interest report to the OPUC under OAR 860-27-040.

In 1991, FERC issued KBPC a certificate of public convenience and necessity under Part 157 of its regulations to construct, own, and transport gas for NWN using its 10% share of the capacity of the Kelso-Beaver Pipeline at FERC-approved rates. See, *Portland General Electric Co.*, 57 FERC ¶ 61,095 (1991), amended, 57 FERC ¶ 61,312 (1991). Currently, KBPC's share of the pipeline is not open access so it may only provide transportation service to NWN. NWN and KBPC are parties to a gas transportation agreement with respect to such transportation service, whereby the Kelso-Beaver Pipeline is obligated to receive

and deliver a specified amount of natural gas from NWN in exchange for a demand charge.

KBPC has no separate employees of its own. It uses employees shared with NWN to accomplish its *de minimus* business functions. In terms of the FERC Standards of Conduct (“SOC”) regulations that apply to relationships between transmission providers and their marketing and energy affiliates, since 2008, in Order No. 717, FERC concluded that the revised SOC rules do not apply to non-open access interstate pipelines that are certificated only under Part 157 of FERC’s regulations, such as KBPC’s share of the Kelso-Beaver Pipeline. Given this, KBPC is not required to comply with the current FERC SOC regulations with respect to its affiliated relationship with NWN, and KBPC and NWN may continue to share employees as necessary to conduct the business of KBPC.

Effective December 1, 2004, KBPC resigned as operator of the Kelso-Beaver Pipeline. Since that date, certain operator responsibilities were handled under contract by Cascade Natural Gas Corporation (“Cascade”), which is not affiliated with any of the co-owners. Cascade resigned as the operator effective December 31, 2010, and since that time, co-owner Portland General Electric (“PGE”) has assumed the operator responsibilities for the pipeline.

Northwest Energy Corporation

NWN wholly owns Northwest Energy Corporation (“NW Energy Corp”), which was formed in 2001 to serve as the holding company for NWN and PGE in the event that the proposed acquisition of PGE was completed. However, the acquisition effort was terminated in May 2002, and the corporation remained dormant until 2013. Since 2013, NW Energy Corp has served as the holding company for NWN Gas Reserves LLC.

The affiliated transactions between NWN and NW Energy Corp were:

- Equity contributions in NW Energy Corp from NWN;
- Distributions from NW Energy Corp to NWN; and
- Payments between NWN and NW Energy Corp for NW Energy Corp’s current tax expense or benefit.

Northwest Energy Sub Corporation

Northwest Energy Sub Corporation (“NW Energy Sub”) is a subsidiary of Northwest Energy Corporation, and was formed in 2001 to be a holding company in the event that the acquisition of PGE was completed. The corporation has remained dormant since its foundation.

There were no affiliated transactions between NWN and NW Energy Sub in 2016.

NWN Gas Reserves LLC

NWN Gas Reserves LLC (“NWN Gas Reserves”) is a wholly owned subsidiary of Northwest Energy Corporation and was formed in December 2012. In March of 2013, NWN’s working interest in the Jonah gas field was transferred to this entity. The agreements related to the working interest were amended in 2014 to facilitate Encana Oil & Gas (USA) Inc.’s sale of its interest in the Jonah Field to an affiliate of TPG Capital. The agreements related to the working interest were again amended in 2016 to further clarify the terms related to additional well development and capital expenditures.

The affiliated transactions between NWN, NW Energy Corp and NWN Gas Reserves were:

- Equity investments in NWN Gas Reserves from NW Energy Corp; and
- Distributions from NWN Gas Reserves to NW Energy Corp.

Northwest Biogas, LLC

NWN owns a 50% membership interest in NW Biogas. NWN also serves as the Managing Member. The other 50% membership interest is owned by BEF Renewable Incorporated. NW Biogas developed and operates a demonstration biodigester located at Three Mile Canyon Farms in Boardman, Oregon.

The affiliated transactions between NWN and NW Biogas in 2016 were:

- NW Biogas’ use of NWN’s administrative staff.

NW Natural Energy, LLC

NWN wholly owns NW Natural Energy, LLC (“NWN Energy”) which was formed in 2009 to own NW Natural Gas Storage, LLC (“NWN Gas Storage”) and other non-utility businesses.

The affiliated transactions between NWN and NWN Energy were:

- NWN Energy’s use of NWN’s administrative and operating staff;
- D&O insurance is purchased by NWN, and is subsequently charged to NWN Energy and reimbursed to NWN through intercompany billings;
- Payments by NWN to limited outside vendors on NWN Energy’s behalf and reimbursed by NWN Energy;
- Equity investments in NWN Energy from NWN;
- Distributions/contributions from NWN Energy to NWN; and
- Payments between NWN and NWN Energy for NWN Energy’s current tax expense or benefit.

NW Natural Gas Storage, LLC

NWN Energy wholly owns NWN Gas Storage, which was formed in 2009. The entity owns and manages non-utility gas storage interests.

The affiliated transactions between NWN, NWN Energy and NWN Gas Storage were:

- NWN Gas Storage’s use of NWN’s administrative and operating staff;

- Payments by NWN to limited outside vendors on NWN Gas Storage's behalf and reimbursed by NWN Gas Storage's subsidiary, Gill Ranch Storage, LLC ("GRS");
- Primarily D&O fiduciary and workers' compensation insurance is purchased by NWN, and is subsequently charged to NWN Gas Storage and reimbursed to NWN through intercompany billings;
- Equity investments in NWN Gas Storage from NWN Energy;
- Distributions from NWN Gas Storage to NWN Energy; and
- Payments between NWN and NWN Gas Storage for NWN Gas Storage's current tax expense or benefit.

Gill Ranch Storage, LLC

GRS was formed in 2007. In 2007, GRS entered into a Joint Project Agreement with Pacific Gas & Electric Company ("PG&E") to develop and own the Gill Ranch underground natural gas storage facility near Fresno, California. Currently, GRS owns 75% undivided ownership interest in this facility and is the sole operator of the facility. PG&E owns 25% undivided ownership interest. Ownership in the facility is structured as tenants in common. GRS owns rights of 75% of the available storage capacity at the facility. GRS's share is designed to provide 15 Bcf of working gas capacity. The facility began operations in the fourth quarter of 2010.

GRS is subject to California Public Utility Commission ("CPUC") regulation with respect to the gas storage services it provides, but it has market-based rate authority with respect to the rates for its services offered in the California market. In addition, GRS is subject to regulation by the CPUC for certain activities, including but not limited to the issuance of securities, operation of the facility, certain terms of customer services, systems of accounts, the nature of investments it may make, safety standards, and transactions with affiliated interests. Accounting records and practices of its regulated business conform to the requirements and uniform system of accounts prescribed by its regulatory authority in accordance with U.S. GAAP.

The affiliated transactions between NWN, NWN Gas Storage and GRS in 2016 were:

- GRS's use of NWN's administrative and operating staff;
- Payments by NWN to limited outside vendors on GRS's behalf and reimbursed by GRS;
- Primarily general liability and D&O insurance is purchased by NWN, and is subsequently charged to GRS and reimbursed to NWN through intercompany billings;
- Equity investments in GRS from NWN Gas Storage;
- Distributions from GRS to NWN Gas Storage; and
- Payments between NWN and GRS for GRS's current tax expense or benefit.

Trail West Holdings, LLC (TWH)

NW Natural Energy, LLC (“NWN Energy”) and TransCanada American Investment Ltd. (“TAIL”) each own a fifty percent (50%) membership interest in TWH. TWH wholly owns Trail West Pipeline, LLC (TWP), which is developing the cross-Cascades natural gas pipeline. See below for description of TWP.

The affiliated transactions between NWN/NWN Energy and TWH were:

- Because accounting is based on the equity method, TWH has no separate set of accounts except for dedicated nominal accounts in other income and expense on NWN Energy’s Income Statement, which includes non-billable expenses to TWH. The investment is tracked as “Other Investments” (124059);
- TWH’s use of NWN administrative and operating staff; and
- Payments by NWN to limited outside vendors on TWH’s behalf and reimbursed by TWH.

Trail West Pipeline, LLC (TWP)

TWP is a wholly-owned subsidiary of TWH, and has been pursuing the development of a proposed FERC-regulated cross-Cascades natural gas pipeline.

There were no affiliated transactions between NWN Energy and TWP in 2016.

BL Credit Holdings, LLC

BL Credit Holdings, LLC is a wholly-owned subsidiary of TWP.

There were no affiliated transactions between this subsidiary and NWN Energy in 2016.

(D) A balance sheet and income statement for each affiliated interest for the 12-month reporting period.

See NWN’s affiliated interest financial statements (“Confidential Exhibit A”) attached to this Affiliated Interest Report.

II. Report of service transactions.

Unless services are provided under tariff as specified in OAR 860-027-0040(3), provide cost of service and related information if total Oregon payments/receipts exceed 0.1% of utility total Oregon annual operating revenues.

Notwithstanding the requirement to report cost of service and related information if payments exceed 0.1 percent of utility total Oregon annual operating revenues, all service payments are shown for each affiliate.

(A) Service payments by the utility to the affiliate.

There are no assets allocable to services.

<u>Account/description:</u>	<u>Total Company</u>	<u>Total Oregon</u>
<u>NNGFC and KBPC:</u>		
Pipeline demand charges (804)..... (KBPC)	\$224,258	\$12,359

The allocation is based on the state's pro rata share of the pipeline demand charges paid by NWN to KB Pipeline Company ("KBPC") based on miles of pipeline.

Description of basis of pricing:

Services rendered by NNG Financial Corporation ("NNGFC") and KBPC to NWN were provided at cost or pursuant to a FERC-approved rate schedule, as applicable.

Demand charges paid by NWN to KBPC were based upon a transportation contract between the two parties which specifies the rates per KBPC's Rate Schedule TF; such rates were approved by FERC as part of KBPC's original certificate order.

(B) Service payments by the affiliate to the utility.

<u>Account/description:</u>	<u>Total Company</u>	<u>Total Oregon</u>
<u>NNGFC and KBPC</u>		
Insurance (924) (KBPC)	\$20,372	\$1,123
Insurance (924) (NNGFC)	\$16,825	\$16,825

The insurance allocation is based on actual insurance premiums. The allocation is based on the underwriting principles for each type of policy.

Legal Expense (921) (NNGFC)	\$0	\$0
Property tax (408)..... (KBPC)	\$20,220	\$8,940
Total NNGFC & KBPC	\$57,417	\$26,888

<u>NW Natural Energy, LLC (“NWN Energy”)</u>		
Portion of NWN salaries and related overhead allocated to NWN Energy (922)	\$29,355	\$29,355
Insurance (924)	\$22,440	\$22,440
Total NWN Energy	\$51,795	\$51,795

NW Natural Gas Storage, LLC (“NWN Gas Storage”)

<u>Account/description:</u>	<u>Total Company</u>	<u>Total Oregon</u>
Portion of NWN salaries and related overhead allocated to NWN Gas Storage (922)	\$805,882	\$805,882
Insurance (924)	\$28,035	\$28,035
Other administrative expense (921)	\$3,472	\$3,472
Total NWN Gas Storage	\$837,389	\$837,389

Gill Ranch Storage, LLC (“GRS”)

Portion of NWN salaries and related overhead		
Allocated to GRS (922).....	\$478,278	\$0
Insurance (924)	\$69,320	\$0
Total GRS	\$547,598	\$0

Trail West Holdings (“TWH”)

Portion of NWN salaries and related overhead		
Allocated to TWH (922)	\$6,485	\$6,485
Legal Expense (921)	\$0	\$0
Total TWH	\$6,485	\$6,485

III. For intercompany loans to the utility from affiliates or loans from affiliates to the utility, provide:

(A) The month-end amounts outstanding separately for short-term and long-term loans.

Short-term loans:

None.

Long-term loans:

None.

(B) The highest amount during the year separately for short-term and long-term loans.

Short-term loans:

None.

Long-term loans:

None.

(C) A description of the terms and conditions for loans including the basis for interest rates.

Intercompany balances are paid off in cash each month; therefore, no interest is charged.

(D) The total amount of interest charged or credited and the weighted average rate of interest separately for short-term and long-term loans.

Short-term loans:

None.

Long-term loans:

None.

(E) Specify the Commission Order(s) approving the transactions where such approval is required by law.

None.

IV. If the utility guarantees any debt of affiliates, identify the entities involved, the nature of the debt, the original amount of the debt, the maximum amounts during the year, the balance as of the end of the year, and the Commission Order(s) approving the transactions where such approval is required by law.

None.

V. Report other transactions (utility leasing of affiliate property, affiliate leasing of utility property, utility purchase of affiliate property, material or supplies and affiliate purchase of utility property, material or supplies) as follows:

(A) Other payments by the utility to the affiliate.

<u>Account/description:</u>	<u>Total Company</u>	<u>Total Oregon</u>
Tax benefits used by NWN from NNGFC (146)	(\$25,225)	(\$25,225)
Tax benefits paid by NWN to NW Energy (146)	\$145,917	\$145,917
Tax benefits paid by NWN to NWN Gas Storage (146)	\$355,000	\$355,000
Tax benefits paid by NWN to GRS (146)	\$4,270,241	\$4,270,241
Salaries and overhead paid by NWN to NWN Gas Storage	\$192,166	\$192,166

Description of basis of pricing:

NWN files and pays taxes on a consolidated basis with its subsidiaries. For any taxable year, these subsidiaries have income and expenses, which cause NWN's consolidated tax liability to increase or decrease. Monthly payments are made to or from NWN to the extent the operations have income or losses.

(B) Other payments by the affiliate to the utility.

None.

VI. By affiliate and job title, provide the total number of executive, management, and professional/technical employees transferred to and from the utility. By affiliate, provide the total number of other employees transferred to and from the utility.

From GRS to NWN: One Accounting Analyst transferred.

From NWN to GRS: One Manager of Marketing & Capacity transferred.

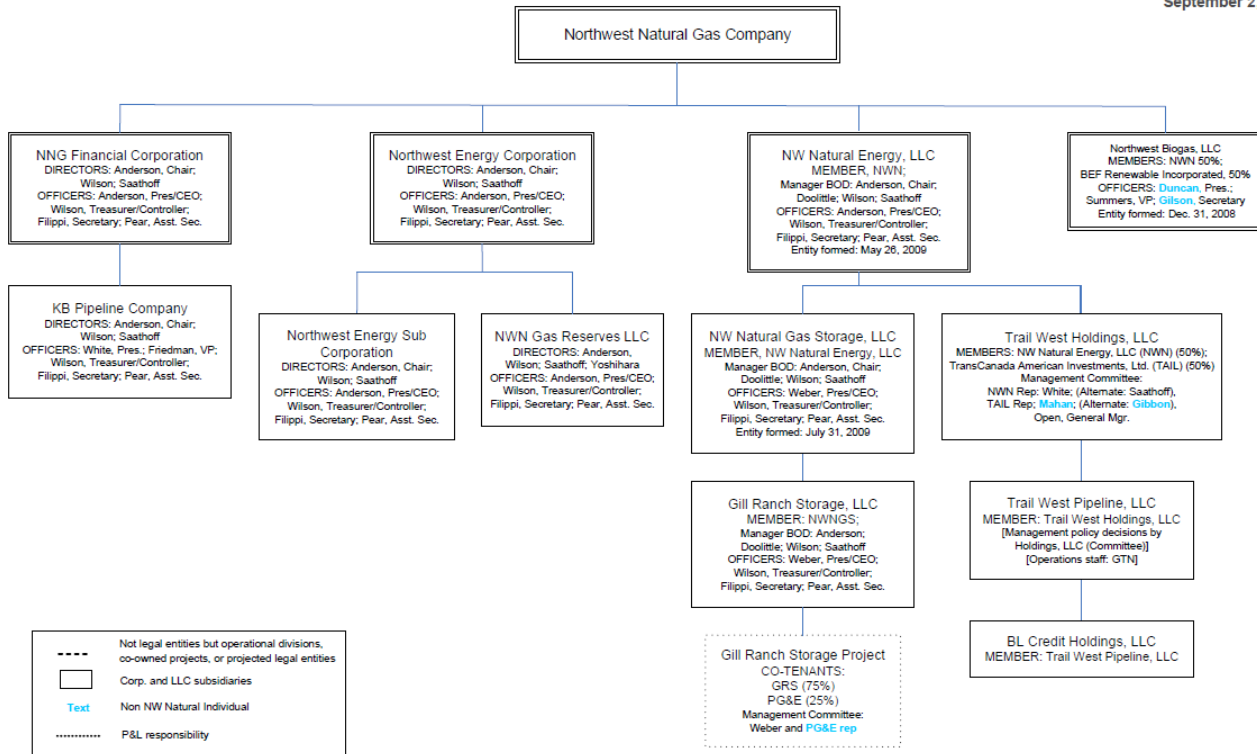
VII. Description of each intra-company cost allocation procedure, and a schedule of cost amounts, by account, transferred between regulated and non-regulated segments of the company.

See the Cost Allocation Manual filed coincident with this Affiliated Interest Report.

CHART 1

NW Natural Organization Chart

Updated
September 2, 2016



NWN Subsidiary Structure - September 2, 2016

EXHIBIT A

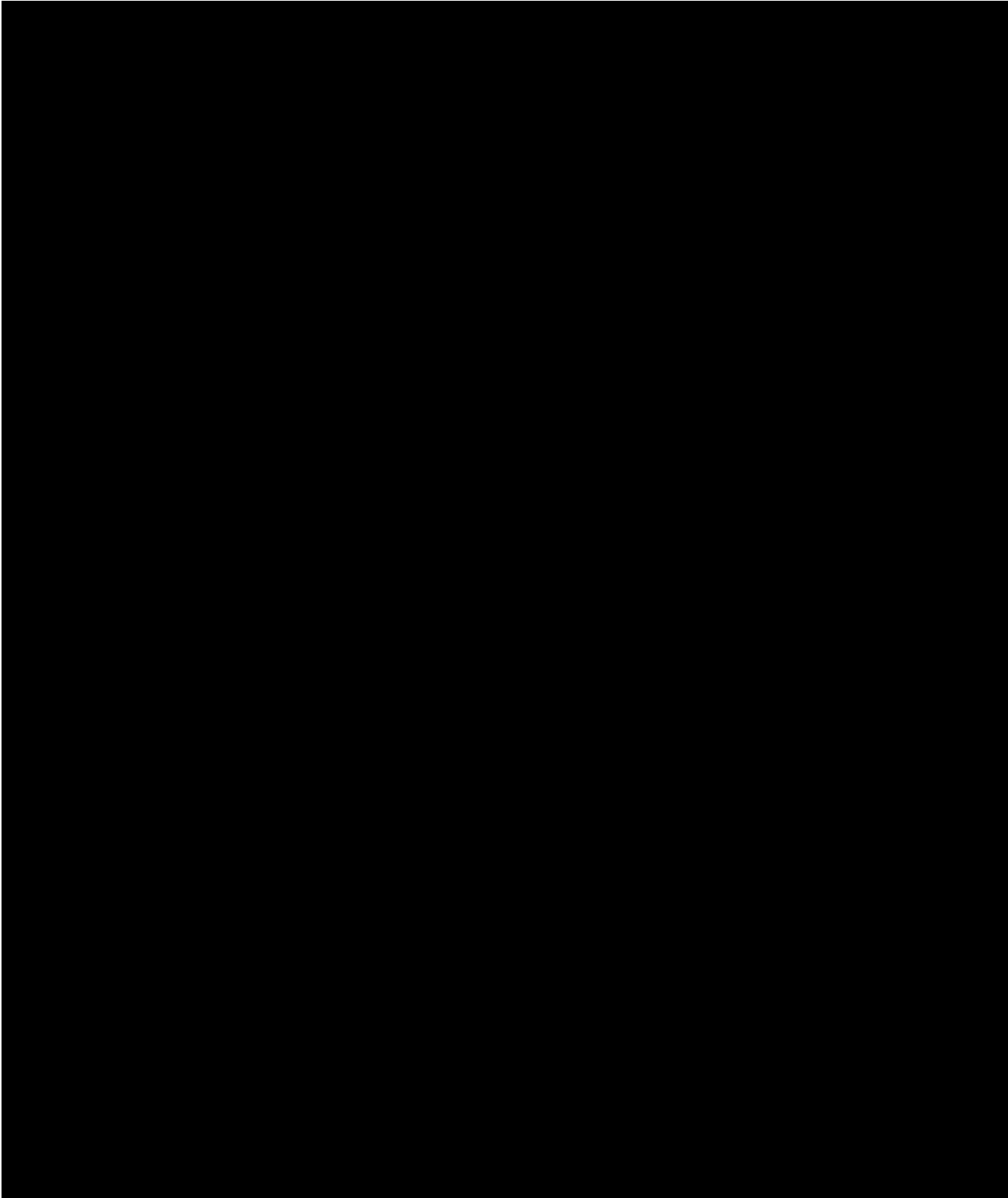


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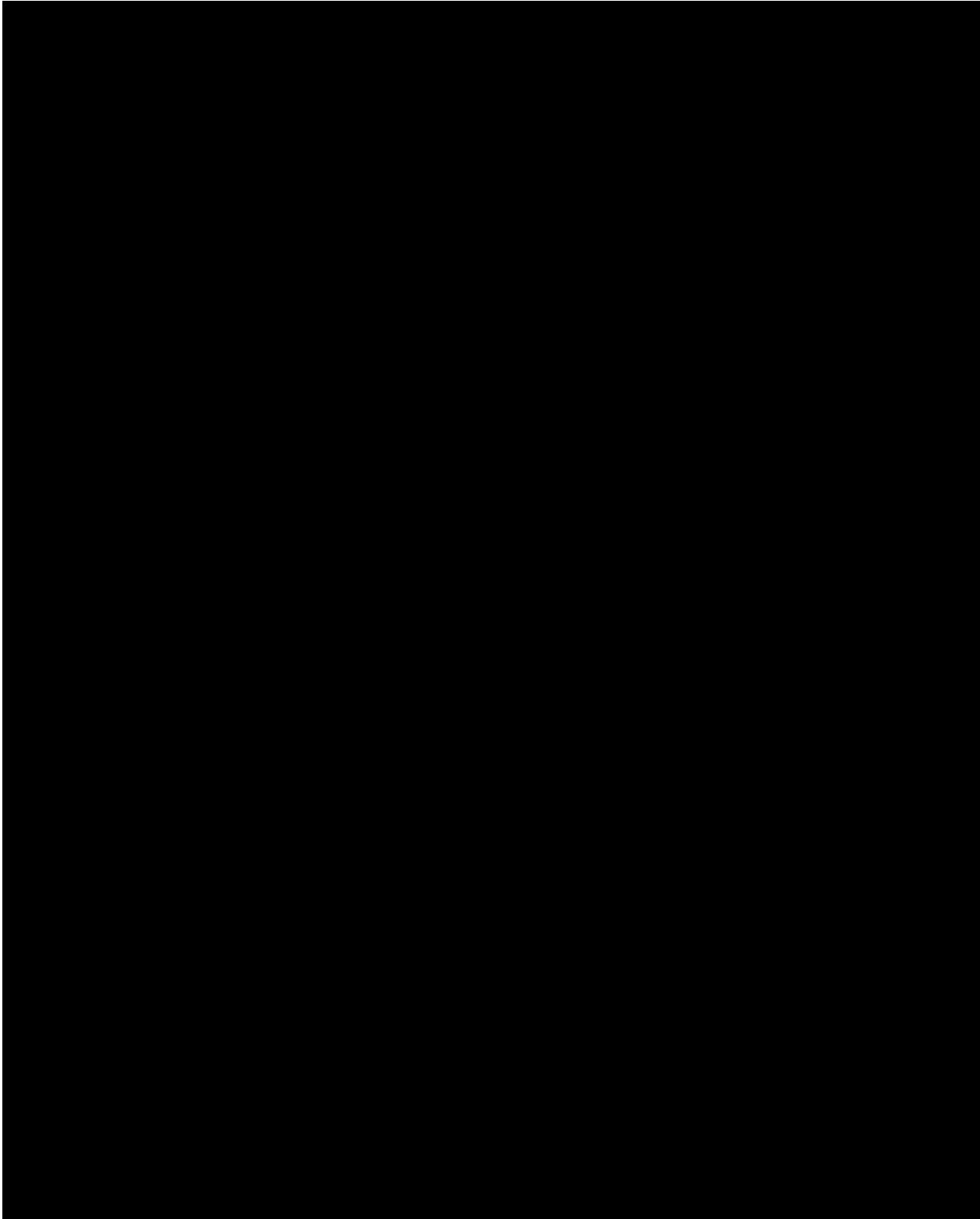


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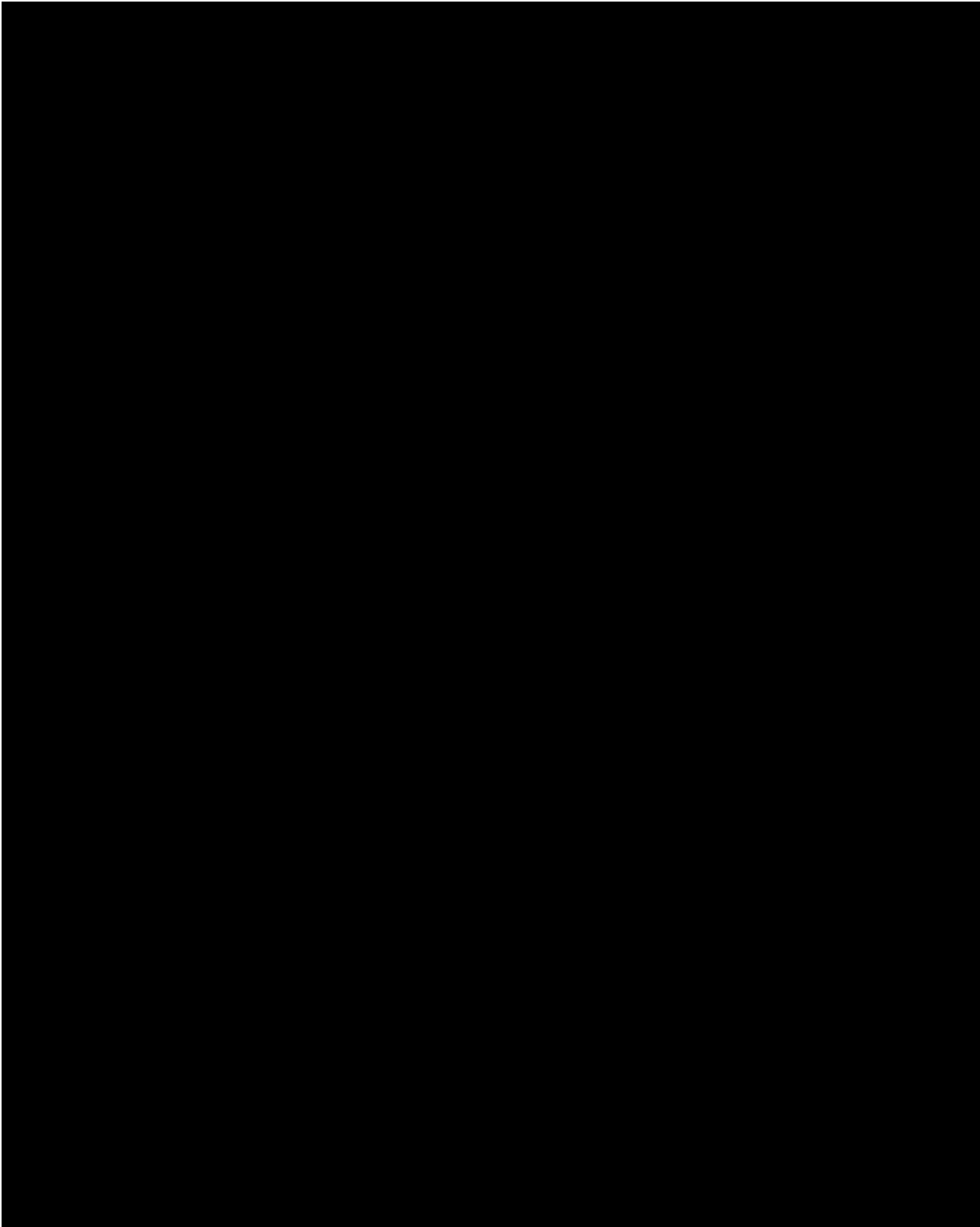


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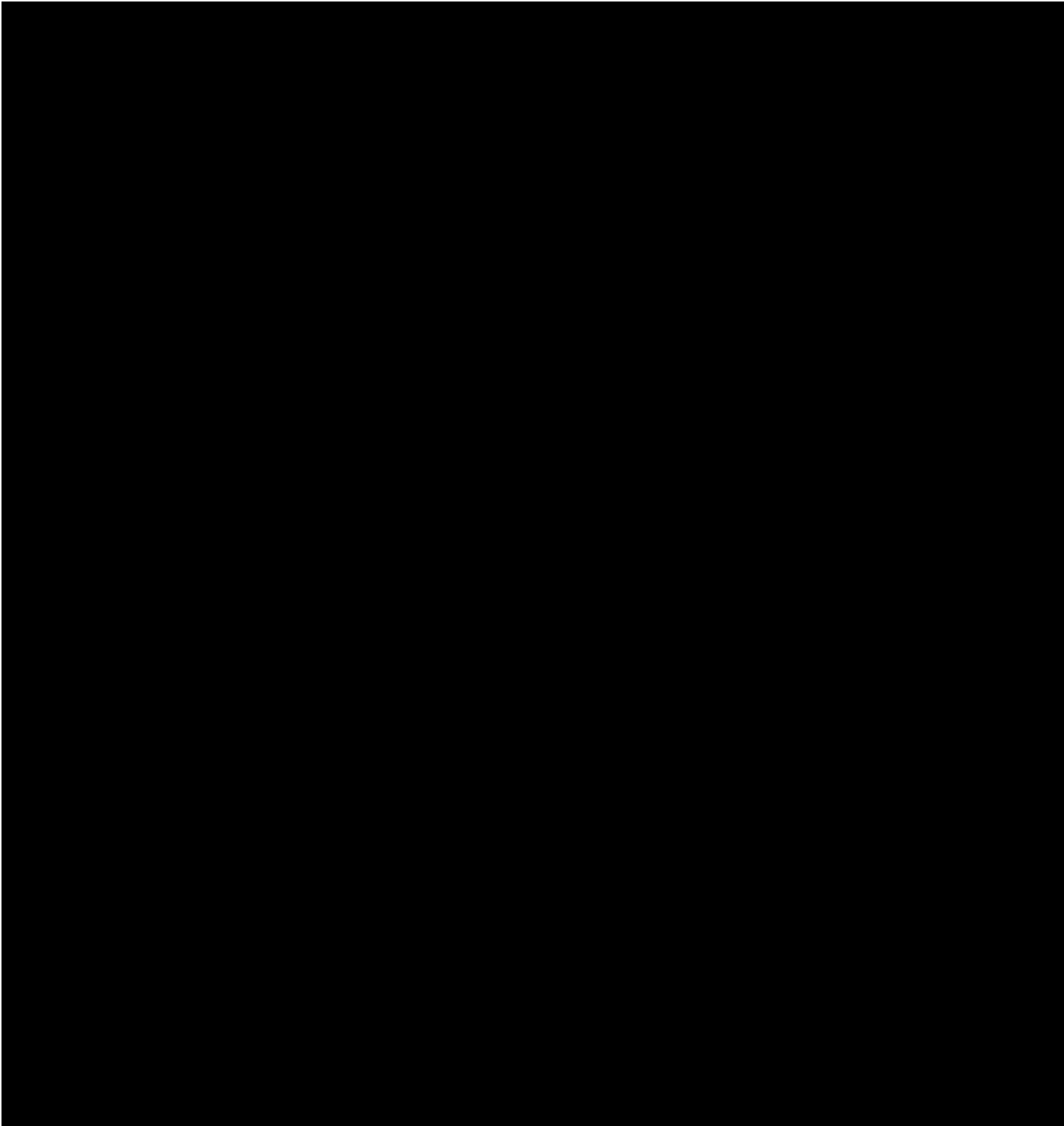


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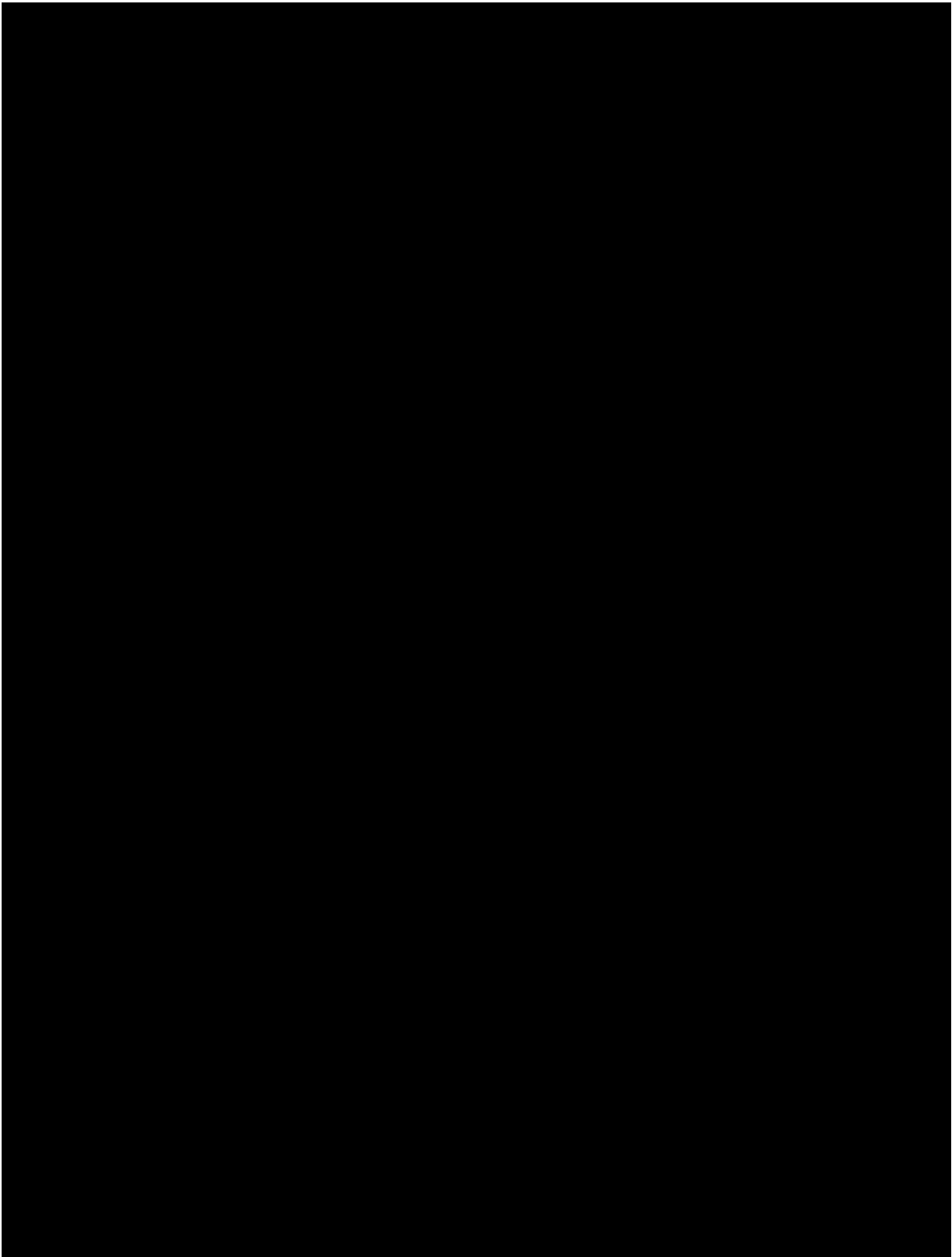


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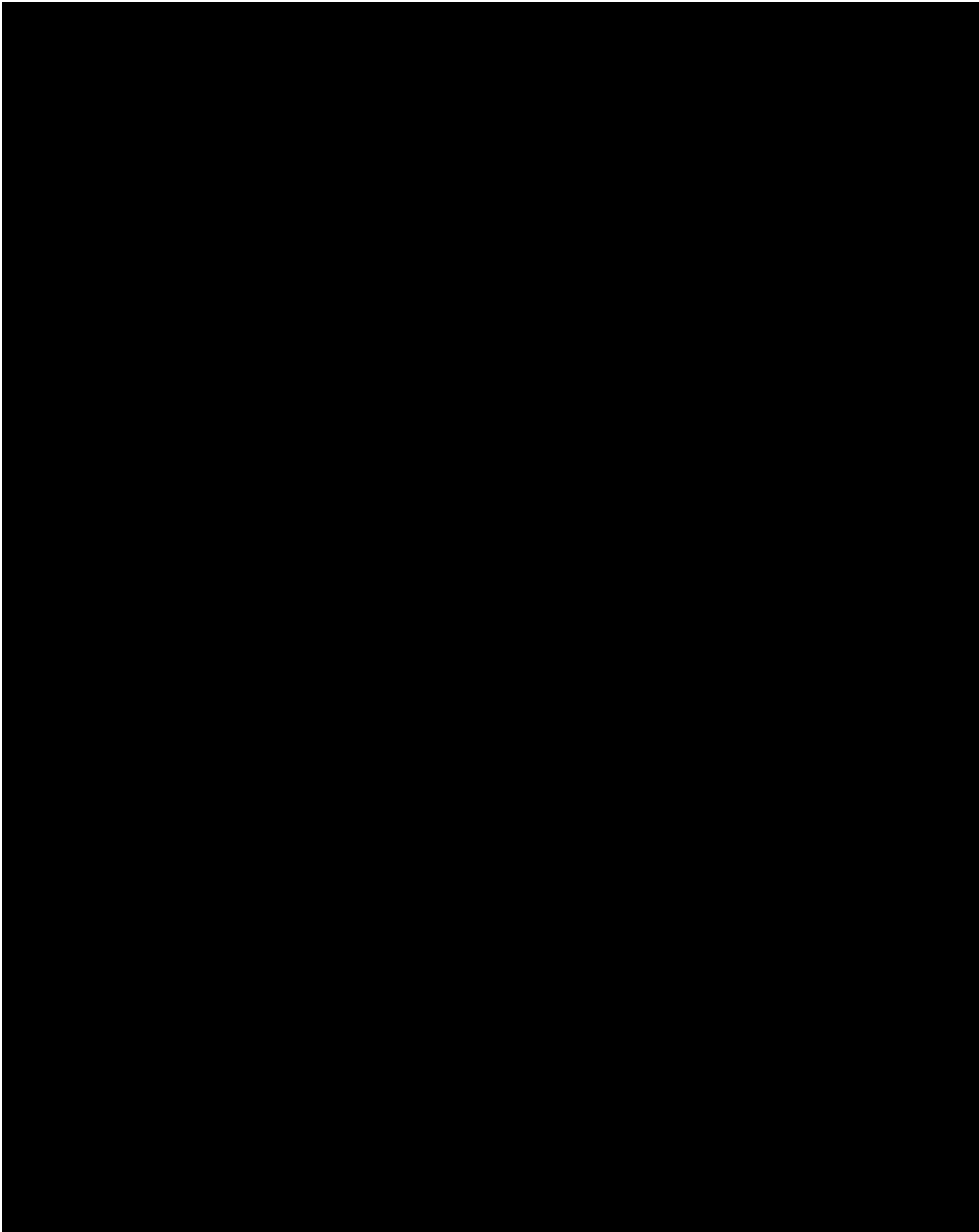


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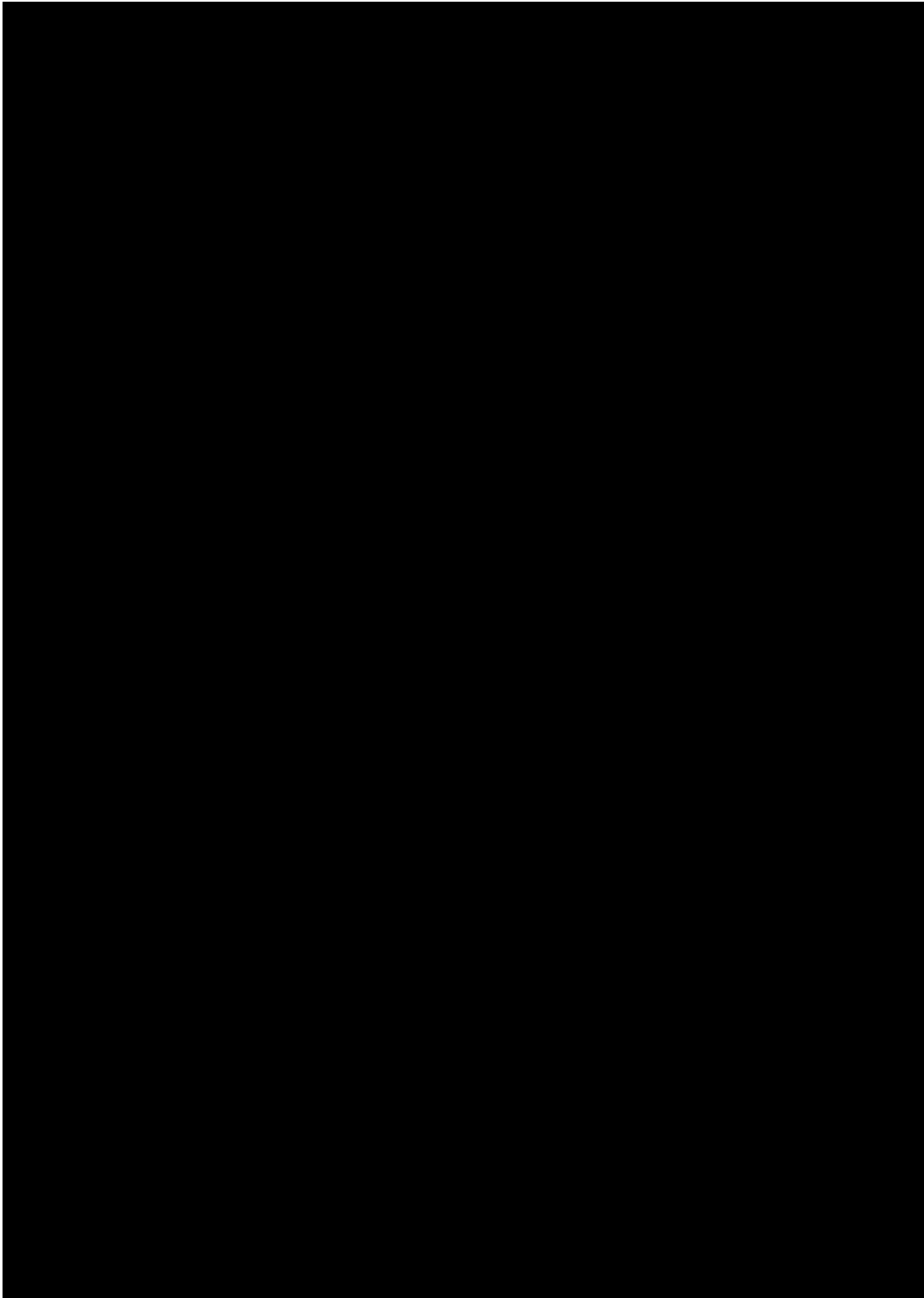


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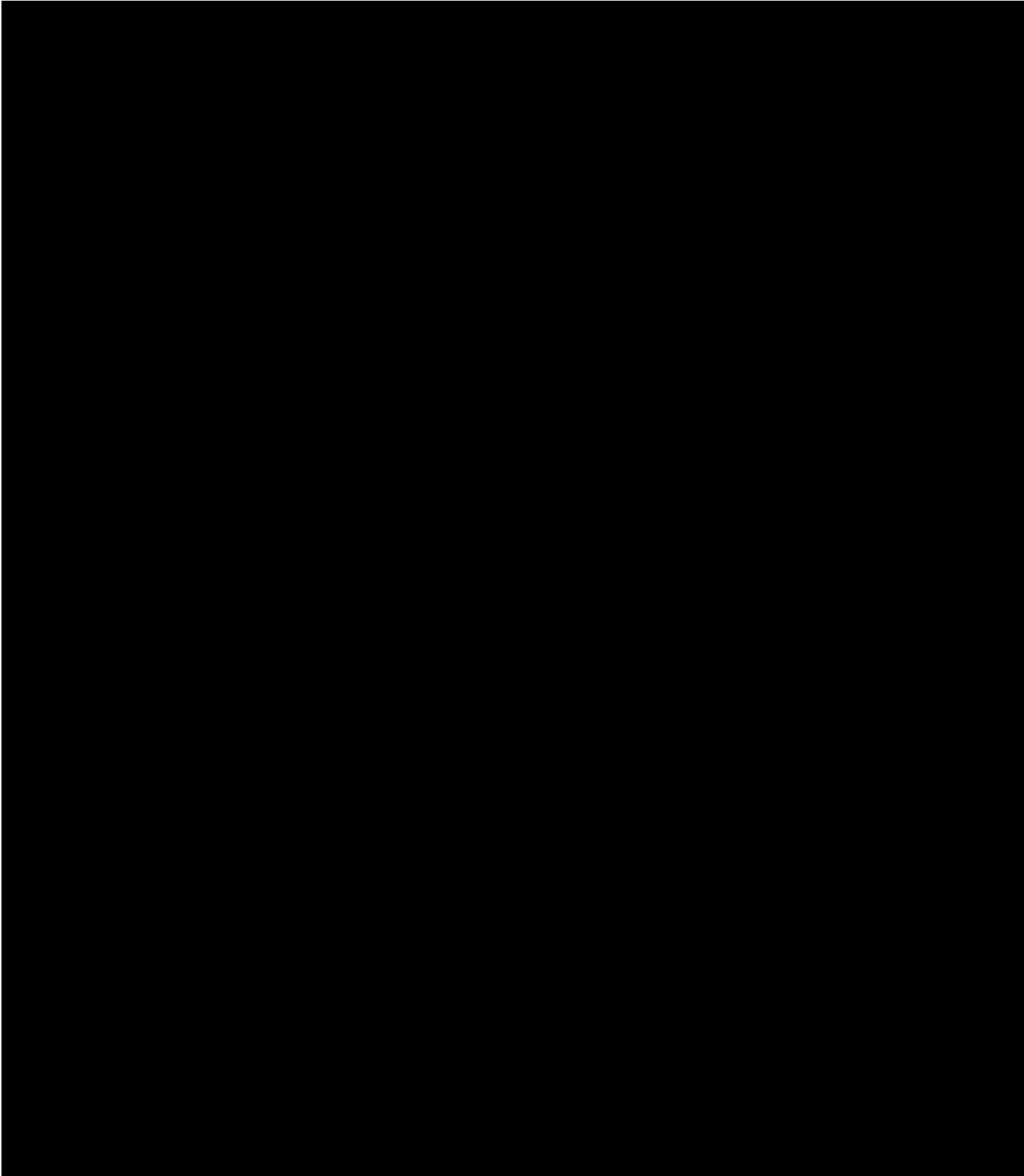


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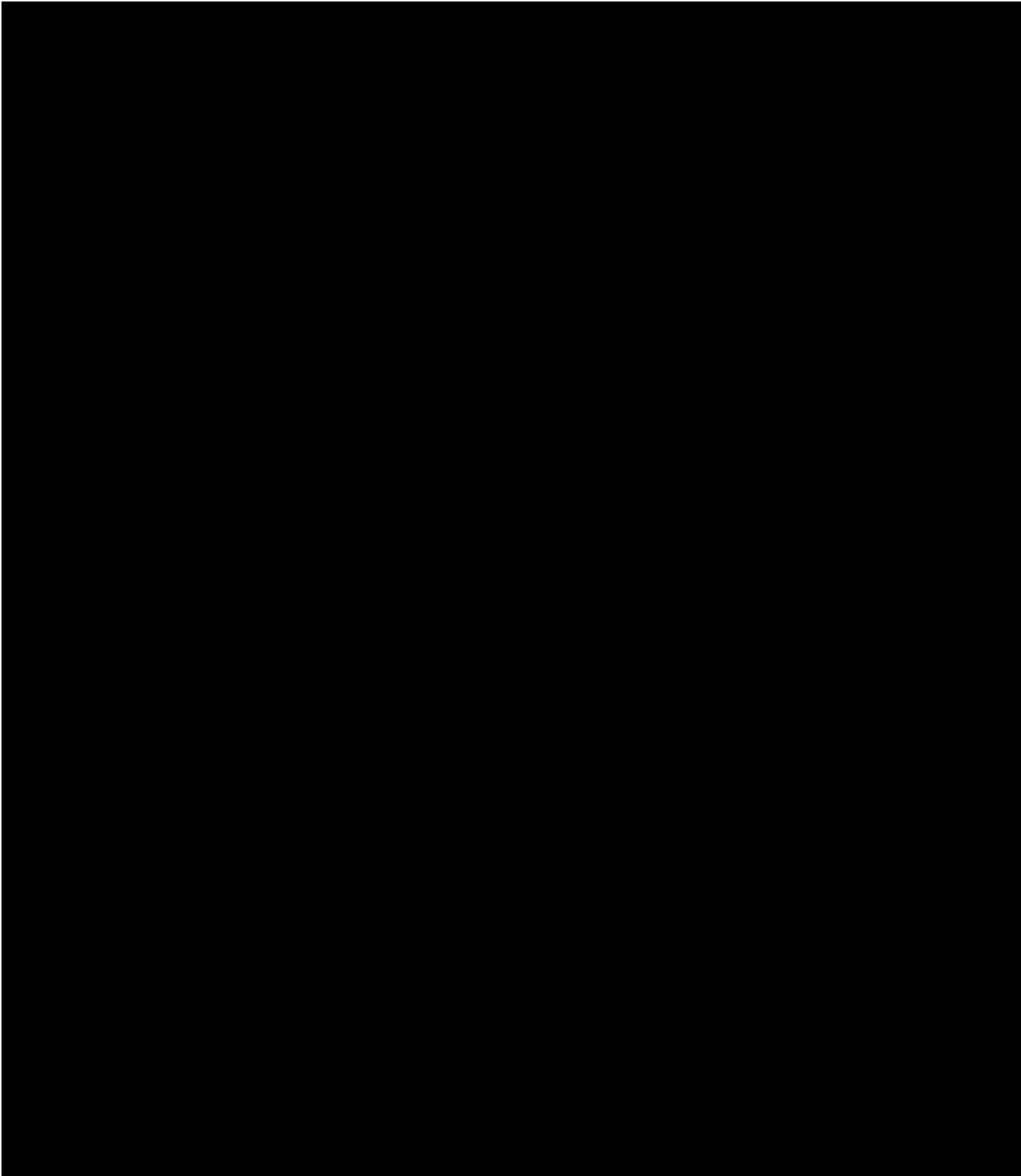


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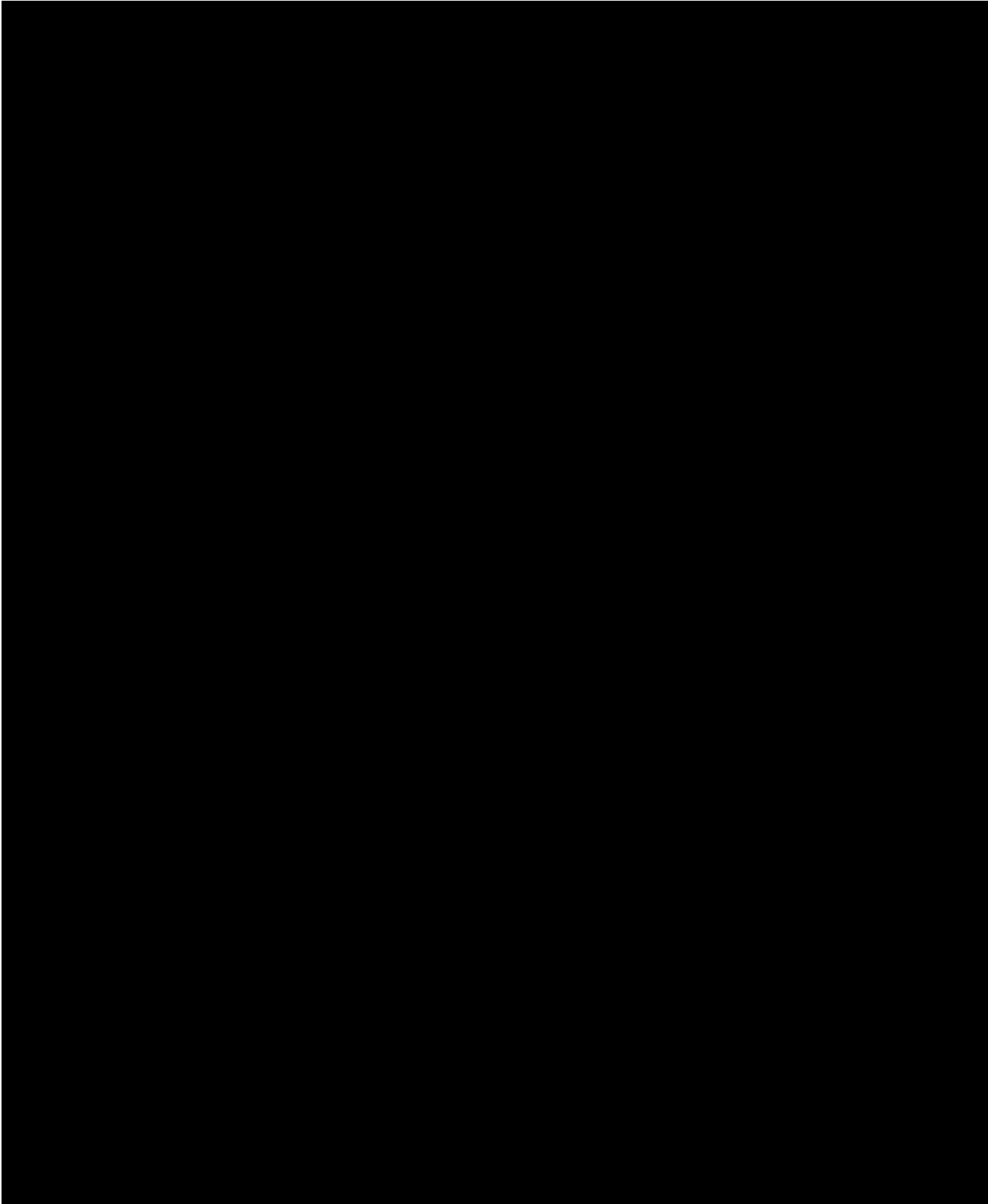


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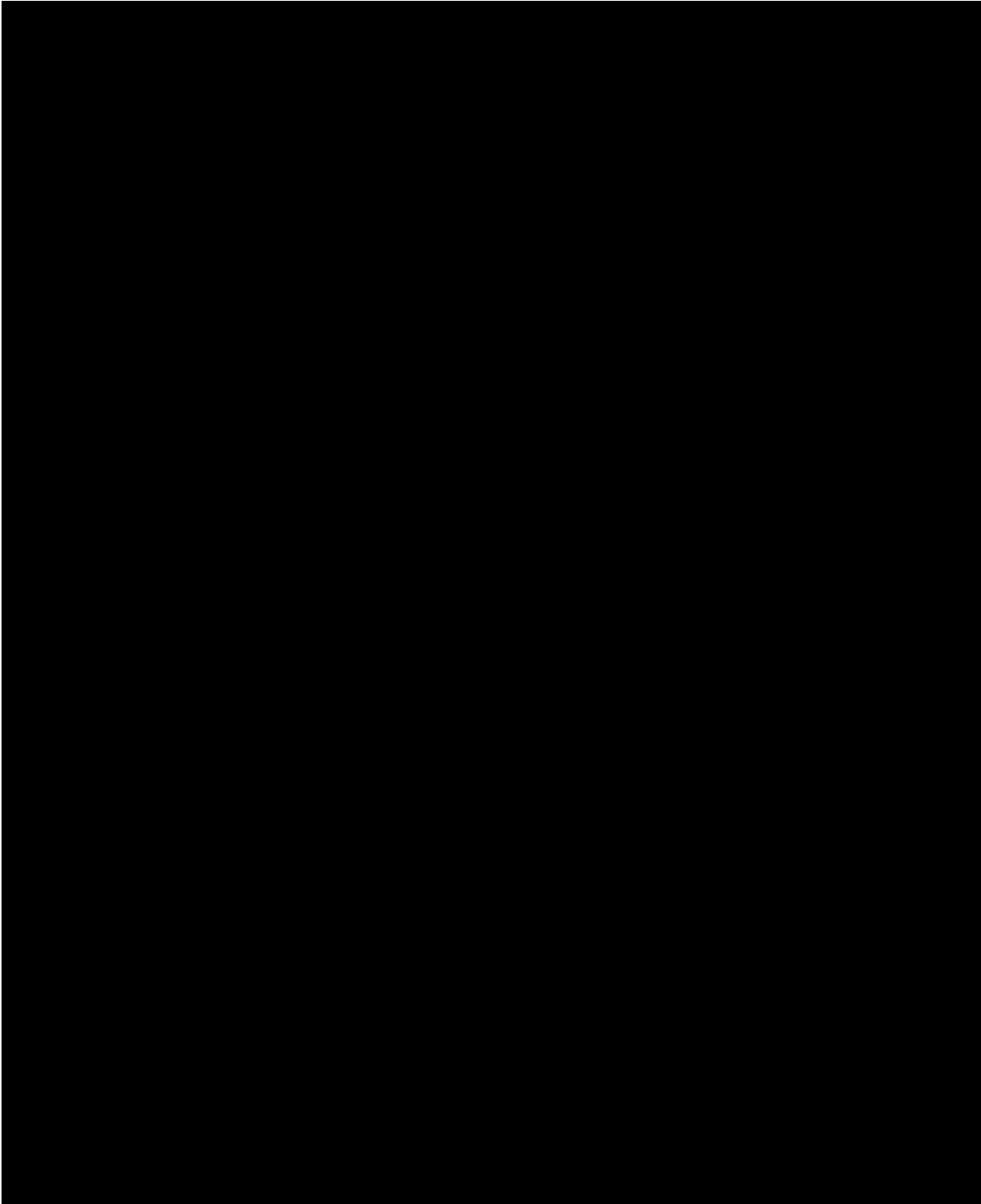


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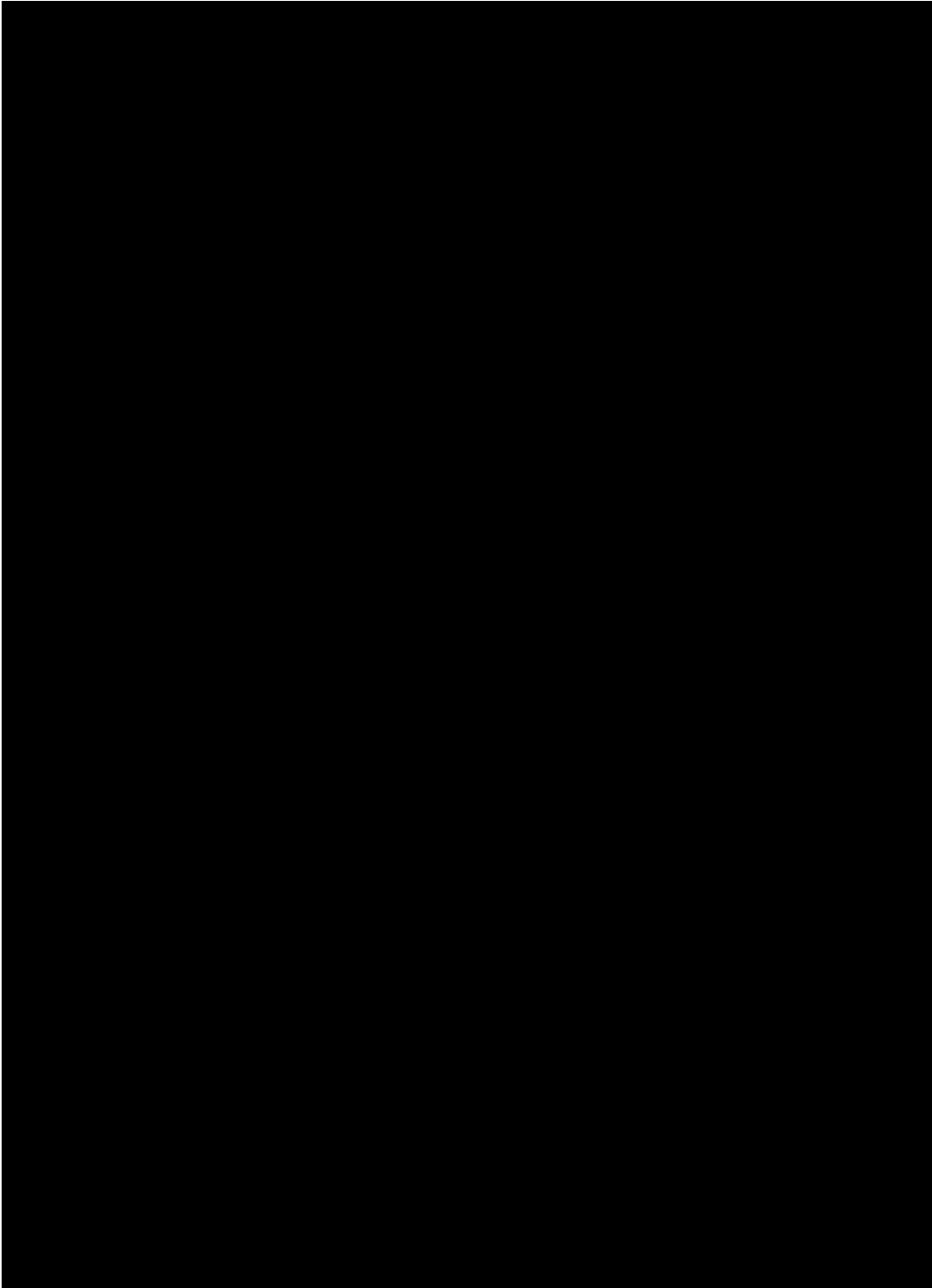
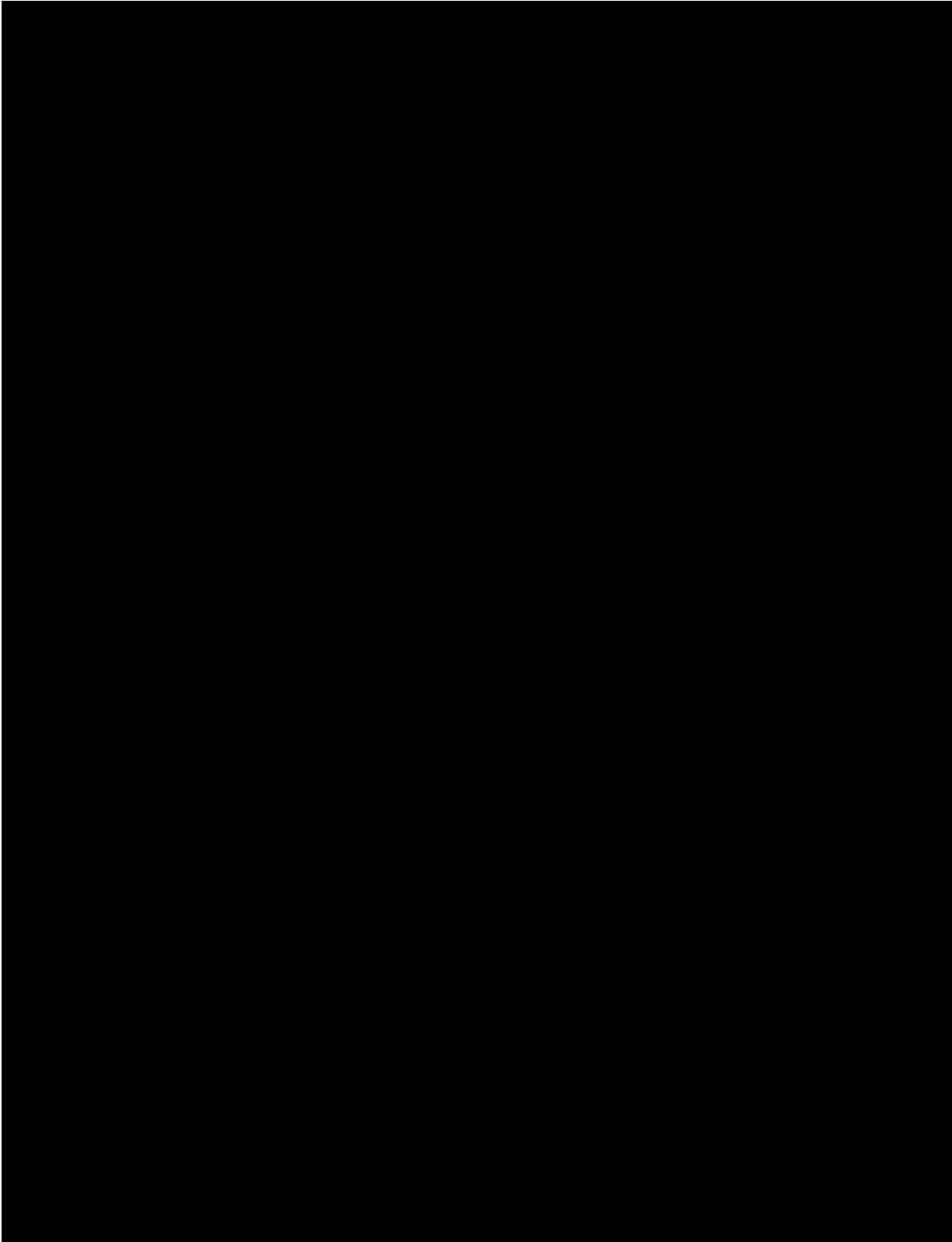


EXHIBIT A



NORTHWEST NATURAL GAS COMPANY

COST ALLOCATION MANUAL

Overview

The purpose of Northwest Natural Gas Company's ("NWN") Cost Allocation Manual is to describe the methodologies for allocating direct, indirect and shared services costs among its public utility activities, its other activities, and its affiliates.

General

NWN has limited assets invested in affiliates or non-public utility activities. At December 31, 2016, these assets accounted for 9% of total assets, and revenue from them was 4% of gross operating revenues. The vast majority of the Company's activities are related to utility operations, and it has maintained a utility parent non-regulated subsidiary organization structure.

Management oversight and other labor performed by NWN employees for the benefit of affiliates or non-public utility activities are recorded on the books of the utility in accordance with the labor allocation methods described below. *See* Labor Allocation Methods. Costs of insurance coverage purchased by NWN on behalf of its affiliates and non-public utility activities are allocated as described below. *See* Insurance Cost Allocation Methods. Income and property taxes attributable to affiliate and non-public utility activities are allocated as described below. *See* "Tax Allocation Methods." Any variation from the general allocation procedures described below is described in the specific description of the particular affiliate or non-public utility activity set forth below.

Affiliates or non-public utility activities are charged directly for materials, supplies and services (e.g., consulting services) purchased by NWN on behalf of the affiliate on the basis of the full cost of the items supplied.

Intercompany balances between NWN and its affiliates are paid on a monthly basis. However, NWN may elect to defer payment of any intercompany balance up to the amount of its net equity contributions to the affiliate for periods of more than one month. If NWN does defer payment, then it will pay monthly interest to the affiliate based on its avoided cost of short-term borrowing for as long as the intercompany balance remains outstanding.

Affiliates & Non-Public Utility Activities

The following is a list of NWN's affiliates that currently meet the requirements of ORS 757.015 and RCW 80.16.010, respectively.

1. NNG Financial Corporation
2. KB Pipeline Company
3. Northwest Energy Corporation
4. NWN Gas Reserves LLC
5. Northwest Energy Sub Corporation
6. Northwest Biogas, LLC
7. NW Natural Energy, LLC
8. NW Natural Gas Storage, LLC
9. Gill Ranch Storage, LLC
10. Trail West Holdings, LLC
11. Trail West Pipeline, LLC
12. BL Credit Holdings, LLC

The following is a list of NWN's non-public-utility activities.

1. Appliance Center/Miscellaneous Merchandising
2. Lan Su Chinese Garden (formerly Classical Chinese Garden) Block
3. Company-Owned Life Insurance
4. Coos County Pipeline
5. Corporate Philanthropy
6. Enerfin Contracts
7. Interstate Storage
8. Lobbying, Civic, and Political Contributions
9. Non-Operating Advertising
10. Oil Storage Tanks/Dock Lease
11. Other Deductions
12. Parking
13. Regulatory and Tax Penalties
14. Service Solutions
15. Sherwood House
16. Smart Energy

Labor Allocation Methods

Beginning in February 2009, NWN completed the second phase of its Integrated Information Initiative (“III Project”), which included a new time keeping system referred to as “CATS” (the Cross Application Time System). Wages and salaries of all NWN employees are charged to a default account within the employee’s home cost center. If an employee has any exception time to this default account, the employee must report and record the exception time in the CATS system. The CATS system then calculates the cost of the reported hours for each employee, adds the appropriate overhead load and generates an accounting entry in which the costs of the reported hours including overhead load are transferred at the employee average pay rate, by pay grade, from the employee’s cost center to the cost center for the reported activity.

Examples of exception time are:

- Vacation,
- Holidays,
- Capital projects,
- Work for other cost centers,
- Work for Non-utility activity within NWN, and
- Work for an affiliate of NWN.

Payroll Overhead Allocation Methods

Payroll overhead is comprised of two types of costs, as follows:

Vacation and Holiday Overhead Load

A vacation and holiday overhead load is added to the pay of all NWN employees to cover the estimated cost of vacations and company-designated paid holidays. This cost is absorbed by the employee’s home cost center while they are at work. If exception time is reported by the employee (*see* “Labor Allocation Methods”), the vacation and holiday overhead load follows the payroll dollars.

The accumulated vacation and holiday load amounts are recorded as a liability in a balance sheet account (232). When employees report time for vacation or official holidays, the CATS system charges the direct labor, without vacation and holiday overhead load, to the balance sheet account (232). At year-end, any over- or under- accrual to the balance sheet account is charged or credited to corporate expense. The year-end balance reconciles to the subsidiary records by employee in the payroll system.

Benefits Overhead Load

All NWN employee benefit costs are charged into a clearing account (602). NWN allocates the costs of employee benefits and payroll taxes by adding a benefits overhead load to all labor charges that are in addition to the vacation and holiday overhead load described above. If exception time is reported (*see* “Labor Allocation Methods”), the benefits overhead load follows the payroll dollars. The benefits overhead load is set at a rate adequate to fully allocate by

year-end all actual benefit costs. The rate is determined at the beginning of the year based on estimated costs. Because benefit cost rates may differ depending on employee grade, employees are categorized into two classes, with different benefits overhead load rates for each class. The employee classes are: (1) Executives, and (2) Non-executives.

In 2016, the following costs were allocated as payroll overhead (company averages):

Executives	
Vacation & Holiday Overhead Load	15.57% of payroll
Benefits Overhead Load	93.47% of payroll
Total Executive Payroll Overhead ¹	109.04% of payroll
Non-Executives	
Vacation & Holiday Overhead Load	15.57% of payroll
Benefits Overhead Load	74.78% of payroll
Total Non-Executives Payroll Overhead	90.35% of payroll
Overtime and Doubletime Overhead	15.84% of payroll

The benefit overhead load includes the cost of health care, pension, post-retirement medical, workers' compensation, 401K plans, payroll taxes, and bonuses. At year-end, any over- or under-allocation of costs recorded in clearing accounts (602) is charged or credited to corporate expense.

A separate entry is made to transfer the cost of payroll taxes embedded in the rates charged to O&M to Account 408, as required by FERC accounting.

For affiliate labor charges, an additional administrative overhead load of 27.5% of labor cost is added to cover the cost of rented space, furniture and equipment.² In like manner, an appropriate administrative overhead load is also charged from an affiliate to NWN when an affiliate provides services to the parent.

Insurance Allocation Methods

NWN's Risk and Land Department obtains insurance for the consolidated NWN entities in the open market. The cost of all premiums is initially charged to NWN accounts. However, Gill Ranch Storage, LLC ("GRS") pays a portion of its premiums directly. An allocation for affiliated or non- utility activity related insurance coverage is subsequently made by journal entry to the affiliate or activity. Allocation is based on the underwriting principles for each type of policy. NWN's intent is to use an allocation methodology that does not result in the utility subsidizing the affiliate or non-public utility activity.

¹ The executive payroll overhead rates do not include expenses for various elements of our executive compensation program such as stock option expense, restricted stock unit expense or long-term incentive plan expenses.

² The administrative overhead load will not be charged if the employee providing the Services is located on affiliate premises for which all facilities related costs are borne by the Affiliate receiving the Services.

Tax Allocation Methods

Income Tax

NWN allocates income tax expense or benefit to each affiliate or activity based on the taxable income or loss of the affiliate or activity. Intercompany tax sharing payments are based on amounts that become payable or receivable between the affiliates or activities based on their respective annual income tax results. For all affiliates or activities, the current tax expense payable or current tax benefit receivable is recorded in an intercompany account (146).”

Property Taxes

Property taxes are charged to the subsidiaries or affiliated interest based on the value of the property owned by the subsidiary or affiliated interest.

Individual Affiliate Activities

NNG Financial Corporation (“NNGFC”)

See NWN’s Annual Affiliated Interest Report for ownership information, a narrative description of this affiliate and the affiliated transactions.

Invoices applicable to NNGFC but billed through NWN are charged directly to the intercompany account 146.

KB Pipeline Company (“KBPC”)

See NWN’s Annual Affiliated Interest Report for ownership information, a narrative description of this affiliate and the affiliated transactions.

KBPC-related income taxes are offset through the intercompany account of NNGFC.

KBPC pays property taxes indirectly in the two states in which the pipeline operates. The portion of the pipeline located in the state of Washington is considered an asset of Portland General Electric Company (“PGE”) (the majority owner), for property tax purposes. PGE pays 100% of property taxes assessed to Cowlitz County, Washington. PGE then bills KBPC for its pro-rata share of these property taxes. The portion of the pipeline located in the state of Oregon is shown on the property rolls of Columbia County, Oregon as property of NWN. See Tax Allocation Methods, above.

Under the Gas Transportation Agreement between KBPC and NWN dated September 26, 1991, NWN pays KBPC a monthly demand charge equal to 96.83 cents per MMBtu under the contract. Based on the contract MDQ of 19,300 MMBtus, this amounts to a total monthly charge of \$18,688.19. NWN charges Account 804 and credits the intercompany account 146016. See NWN’s Affiliated Interest Report for further information on this demand charge. Additionally, if KBPC actually transports gas for NWN, there is an additional volumetric/commodity charge payable by NWN to KBPC equal to 1.44 cents per MMBtu of gas transported. The rates charged by KBPC to NWN for gas transportation services on the Kelso-Beaver Pipeline were approved by FERC in KBPC’s 1991 certificate order.

All intercompany balances flow through the intercompany account of KBPC’s parent company, NNGFC.

Northwest Energy Corporation (“NEC”)

See NWN’s Annual Affiliated Interest Report for ownership information, a narrative description of this affiliate, and the affiliated transactions. Beginning in 2013, NEC began serving as the holding company for NWN Gas Reserves LLC.

Tax amounts are charged directly through the intercompany tax account (146).

NWN Gas Reserves LLC

See NWN's Annual Affiliated Interest Report for ownership information, a narrative description of this affiliate and the affiliated transactions. NW Natural's interests in gas reserves were transferred to NWN Gas Reserves LLC in 2013.

Northwest Energy Sub Corporation ("NESC")

See NWN's Annual Affiliated Interest Report for ownership information, a narrative description of this affiliate and the affiliated transactions.

Northwest Biogas, LLC ("NW Biogas")

See NWN's Annual Affiliated Interest Report for ownership information, a narrative description of this affiliate and the affiliated transactions.

NW Natural Energy, LLC ("Energy")

See NWN's Annual Affiliated Interest Report for ownership information, a narrative description of this affiliate and the affiliated transactions.

NWN will also directly allocate costs to Energy for certain services provided by NWN employees to Energy with respect to special projects not included in the services contemplated under the Shared Services Agreement, effective July 1, 2010, among NW Natural Energy, LLC, NW Natural Gas Storage, LLC and Gill Ranch Storage, LLC (Subsidiary Agreement).

NW Natural Gas Storage, LLC ("NWNGS")

See NWN's Annual Affiliated Interest Report for ownership information, a narrative description of this affiliate and the affiliated transactions.

For management oversight and other labor services provided by NWN to or for the benefit of NW Natural Gas Storage, LLC ("NWNGS") or Gill Ranch Storage, LLC ("GRS"), NWN will bill NWNGS in accordance with the specifications of this allocation manual.

NWN will also directly allocate costs to NWNGS for certain services provided by NWN employees to NWNGS with respect to special projects not included in the services contemplated under the Subsidiary Agreement.

Gill Ranch Storage, LLC ("GRS")

See NWN's Annual Affiliated Interest Report for ownership information, a narrative description of this affiliate and the affiliated transactions.

NWN will bill NWNGS in accordance with the specifications of this allocation manual for management oversight and other labor services provided to or for the benefit of NWNGS or GRS by NWN in accordance with the subsidiary agreement.

NWN will also directly allocate costs to GRS for certain services provided by NWN employees to GRS with respect to special projects not included in the services contemplated under the Subsidiary Agreement.

GRS as operator of the natural gas storage project co-owned by GRS with Pacific Gas & Electric Company (“PG&E”) is obligated to maintain certain insurance, including “All Risk” insurance, workers compensation, automobile liability and umbrella/excess insurance. The policies are endorsed to provide that the insurer shall waive any right of recovery that the insurer may have or acquire against the owners and their affiliates. Each owner is named as an insured. GRS purchases a majority of their insurance directly. Other insurance costs are allocated as set forth above, under Insurance Allocation Methods.

Trail West Holdings, LLC (“TWH”)

See NWN’s Annual Affiliated Interest Report for ownership information, a narrative description of this affiliate and the affiliated transactions.

Expenses for Trail West Holdings, LLC (“TWH”) and its subsidiaries are charged to account 426, and consist of allocations of NWN employee time as described above in Labor Allocation Methods. As an equity investor, Energy receives an allocated share of income from TWH, recorded in 426. TWH is included in NWN’s consolidated financial statements as an equity investment.

Trail West Pipeline, LLC (“TWP”)

See NWN’s Annual Affiliated Interest Report for ownership information, a narrative description of this affiliate and the affiliated transactions.

BL Credit Holdings, LLC

See NWN’s Annual Affiliated Interest Report for ownership information, a narrative description of this affiliate and the affiliated transactions.

Individual Non-Public-Utility Activities

Appliance Center

NWN's Appliance Center is a retail store that demonstrates and sells natural gas appliances to the general public. NWN has one store located in Portland. The accounting unit for the revenues and expenses for the Appliance Center is 11490.

The accounting for the product sales and cost of sales at the Appliance Center are in one of the following accounts:

Activity 415	Merchandise Revenue
Activity 416	Merchandise Expenses

NWN purchases liability insurance on behalf of the Appliance Center. See Insurance Allocation Methods, above. An additional charge for management oversight is made on a monthly basis by taking 1.5% of the selling expenses in Activity 911, Activity 912, and Activity 916 and charging Activity 416.

Certain NWN employees work exclusively on matters related to the operation of the Appliance Center. The cost of the exempt and hourly employees and all related payroll overheads are charged to Activity 416. In addition, expenses incurred in the operation of the Appliance Center are charged to Activity 416.

NWN owns the building in which the Appliance Center operates and rent is charged to Activity 416 based on the percentage of building square feet that is occupied by the Appliance Center. Revenue that NWN receives from this rent is recorded in activity 412, "Rent from Utility Property." NWN periodically adjusts rent based on market rates. Property taxes are included as a component of the rent. Market rental rates were last evaluated in 2008 and are adjusted annually based upon changes in the CPI Index. The rent cannot decrease despite any decreases in the CPI Index.

NWN has made Leasehold Improvements to the property and has capitalized these costs in account 186, Appliance Center Leasehold Improvements. NWN is amortizing the cost of these improvements over the life of the Appliance Center lease term. The current lease agreement term expires in June of 2022. Amortization expense is charged to Activity 416. The Accumulated Amortization of the Appliance Center Leasehold Improvements is in account 186.

Lan Su Chinese Garden (formerly Classical Chinese Garden) Block

NWN owns the land that is presently used for the Lan Su Chinese Garden (formerly Classical Chinese Garden). The land is held in Non-Utility Plant in account 121. It consists of one square block from Northwest Second Avenue to Northwest Third Avenue and from Northwest Everett Street to Northwest Flanders Street in Portland, Oregon. NWN has leased the property to the City of Portland under a long-term lease for 100 years for \$1 per year.

NWN provides no insurance coverage. Property taxes are the responsibility of the operator of the Garden.

Company-Owned and Trust Owned Life Insurance

NWN has a Corporate-Owned Life Insurance (“COLI”) Plan where it has purchased key-person life insurance contracts to provide informal funding for long-term, people-related liabilities including post-retirement medical benefits. The policies are owned by and payable to NWN and are increasing whole-life insurance. Similarly, NWN also has Trust-Owned Life Insurance Plans where the policies provide informal funding for non-qualified employee benefits and are owned by and payable to the Trust. Costs and benefits related to these investments, including the build-up of cash surrender value, are recorded in account 426. The investment balance is recorded in account 124.

Coos County Pipeline

An intrastate natural gas transmission pipeline to Coos County was built in 2004 and became operational in January 2005, for the purpose of providing natural gas service to the Southern Oregon Coast service area of NWN’s franchise. Coos County owns this pipeline and has contracted with NWN to operate it. NWN and Avista were the only Utility shippers on the Coos County Pipeline as of the end of 2016, while Knife River Corporation and Southport Lumber Company also utilized the pipeline.

NWN collects the costs of operation in a clearing account, activity 616. These costs include payroll costs of management and of operating employees who work on the pipeline. Each month these costs are cleared to Non-Utility Expense account 421. NWN bills Coos County monthly for the operating costs and records this as non-utility revenue in the same account 421. Coos County then bills NWN and Avista Utilities standard monthly amounts based on an annual budget, allocated by projected volumetric flows for each shipper. These costs are trued up at the end of each year, based on actual operating costs and actual volumes delivered for each shipper. NWN charges this payment to Cost of Gas.

NWN bills an additional monthly amount to Coos County as “compensation” to NWN, per the operations contract between the two parties. The contract allows this amount to increase each year for inflation. This revenue is recorded in account 421.

Corporate Philanthropy

NWN generally donates 1% of the average net income before tax for the three years immediately preceding the budget year. Donations are made to non-profit organizations, including those associated with education, arts, social welfare, and the environment.

The donations are directly charged to non-utility accounts 426 for Oregon and Washington. No accounting services are allocated.

Enerfin Contracts-Mist

NWN has a contract with Enerfin Corporation whereby the price of gas purchased from Enerfin for production at Mist is \$0.01 per therm less than what we collect in rates from our customers. This reduction is intended to offset general plant expenses for NWN's operation of Miller Station. This mutually beneficial agreement allows Enerfin to save money by not duplicating NWN plant and equipment at Miller Station.

The \$0.01 per therm gas savings is credited to income account 415. Labor provided by NWN employees for technical services such as meter calibration is charged directly to account 416 on daily time tickets. An overhead load is added at the same rate that is used by NWN.

Interstate Storage

NWN owns and operates the Mist underground natural gas storage facility in Columbia County near Mist, Oregon. In addition to the use of such storage facilities for its retail core customers, NWN has pre-built some storage facilities in advance of core need and uses the excess capacity of other existing facilities to provide storage services to customers in the interstate and intrastate market. NWN provides the interstate storage service under a limited jurisdiction blanket certificate issued to it by FERC under Section 284.224 of FERC's regulations. See, Northwest Natural Gas Company, 95 FERC ¶ 61,242 (2001). Under that certificate, NWN is authorized to provide FERC-jurisdictional bundled firm and interruptible storage and related transportation services to and from its Mist storage field in interstate commerce. In addition, NWN provides an intrastate firm storage service for eligible intrastate customers and sites in Oregon under Tariff Schedule 80 (experimental). The terms of Rate Schedule 80 mirror NWN's FERC-authorized interstate service. Since the provision of the storage services is accomplished by the use of some shared storage and transportation assets that are included in the core rate base, NWN has sharing agreements in place with its Oregon and Washington regulators. In Oregon, the sharing arrangement for both storage services and asset optimization assistance is set forth in NWN's Tariff Schedules 185 and 186. These sharing agreements are in lieu of specific allocations of costs.

Lobbying, Civic, and Political Contributions

NWN provides resources to participate in federal, state, and local government affairs, as well as in local civic organizations and initiatives. The Company also administers PAC funds that receive contributions from both employees and NWN.

Direct costs are charged to 426 accounts for the following activities:

- Contributions to political candidates,
- Contributions for ballot measures and opinion research on issues,
- Chamber of Commerce dues, and
- Social club dues.

A portion of two employee's salaries and expenses are charged to account 426.

Non-Operating Advertising

NWN charges some advertising and consumer incentive or contest expense to account 416, a non-utility account. The charges are for advertising to promote the benefits of natural gas and high-efficiency natural gas equipment, and to incent customers to sign up for payment programs such as Paperless Billing, Equal Pay, and Auto Pay.

Oil Storage Tanks/Dock Lease

NWN leases oil storage tanks and a loading/unloading dock at its Linnton property (“Dock”) to outside parties for commercial use.

The investment, accumulated depreciation, and deferred income taxes are accounted for in Non-Utility plant, accounts 121, and 283. Rental Income is credited to account 418 and depreciation is charged to account 418.

Income taxes are charged to non-utility taxes, accounts 409. See Tax Allocation Methods, above. Property taxes are billed to, and paid by, the lessee.

NWN purchases liability insurance coverage for the Dock facility. NWN’s Risk Services Department obtains insurance for the consolidated corporate entity in the open market. The policies obtained include the Dock facility’s replacement value. This insurance is charged to 426. See Insurance Allocation Methods, above.

Lessees provide their own insurance coverage.

No accounting or management costs are currently charged to this business segment.

Other Income and Deductions

The Other Deductions account, 426, is used for miscellaneous write-offs or other non-utility expenses not readily classifiable in any other utility or non-utility accounts.

Parking

Non-utility parking costs are recorded as direct invoice charges from parking vendors or as payments to employees working on non-utility business.

Costs for employee parking are directly charged to non-utility account 426. Parking reimbursement is collected from employees for personal parking and credited to the same account.

Regulatory & Tax Penalties

Any regulatory or tax penalties are charged to account 426.

Revenue from Utility Property

See “Appliance Center”. Rent income received from the Appliance Center is credited to account 412, “Revenue from Utility Property”.

Service Solutions

NWN provides a repair and maintenance referral service to customers with equipment problems or who desire equipment servicing. Customers call the Service Solutions Center and a representative connects the customer with a NWN Certified Contractor. Participating dealers agree to complete the service call within one week unless otherwise requested by the customer, or within 24 hours on an emergency basis. Dealers must meet strict qualification standards and agree to pay annual fees that are used to fund the program.

Expenses are tracked in account 416 and offset by fees paid by the participating dealers. This revenue is recorded in account 415. The expenses include directly charged labor and overhead, depreciation on original CIS (Customer Information System) program development expenses, and an answering service vendor.

Sherwood House

The Sherwood House is a residential home located at 24540 SW Old Hwy 99, in Sherwood, Oregon. The home and the land it is on were acquired by NWN because the land was needed for the Sherwood valve site of Phase 4 of the South Mist Pipeline Extension. The home cannot be partitioned from the property; therefore it is being leased to a private party.

The land is classed as utility property since it is needed for the valve site. The house is not needed for utility operations and is carried in account 121. Rental income is recorded in account 418. Depreciation on the house is recorded in account 421.

Smart Energy

Smart Energy is an Oregon-tariffed utility program which provides Oregon customers an opportunity to offset the carbon dioxide emissions from their use of natural gas by purchasing carbon offsets. The program became effective on September 1, 2007. The ongoing costs of this program are paid for by program participants. The start-up costs for the first 3 years of the 5-year pilot program were paid for by NWN Shareholders and all Oregon customers. Any ongoing incidental costs not covered under the tariff are directly charged to account 426.