



13201 Bel-Red Road
Bellevue, Washington 98005

January 26, 2016

Reference: P-165049, Revision 01

Attention: Mr. David Whelan

Subject: Valdivia Project – CNCG Flare
Quench and Scrubbing System
Technical and Commercial
Proposal

Celulosa Arauco y Constitución S.A.
Avda. El Golf 150, 7º Piso
Las Condes, Santiago, Chile

Dear Mr. Whelan:

We are pleased to submit a revised budget proposal for the supply of a quenching and scrubbing system for the existing NCG flare at the Valdivia mill. Both technical and commercial proposals are included for your review, with the budget pricing included. The incinerator refractory also is revised to quick startup ceramic fiber modules (Item 6). The proposal is in response to your email request and is based on the flare information you have provided.

Lundberg has established a reputation for quality, performance, and expertise. This background and experience have been utilized in preparing this proposal to meet your particular requirements.

If you have any questions after reviewing this proposal, please

We appreciate the opportunity to present this proposal and look forward to your favorable consideration.

Sincerely,

Dan Bloom

Executive Vice President
Lundberg

enc: Proposal

cc: Mr. Ignacio Guzman Sanchez/ Elof Hansson/ Santiago, Chile

JACKSONVILLE, FLORIDA

MONROE, LOUISIANA

NAPERVILLE, ILLINOIS

OLD SAYBROOK, CONNECTICUT

BILBAO, SPAIN

P-165049, Revision 01

January 26, 2016

LUNDBERG

TECHNICAL AND COMMERCIAL PROPOSAL

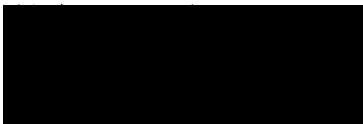
**CNCG FLARE QUENCH AND
SCRUBBING SYSTEM**

**CELULOSA ARAUCO Y
CONSTITUCIÓN S.A.**

VALDIVIA, CHILE

Our representative in your area:

Ignacio Guzman Sanchez
Elof Hansson – Chile



PRESENTED BY: Paul Johnson

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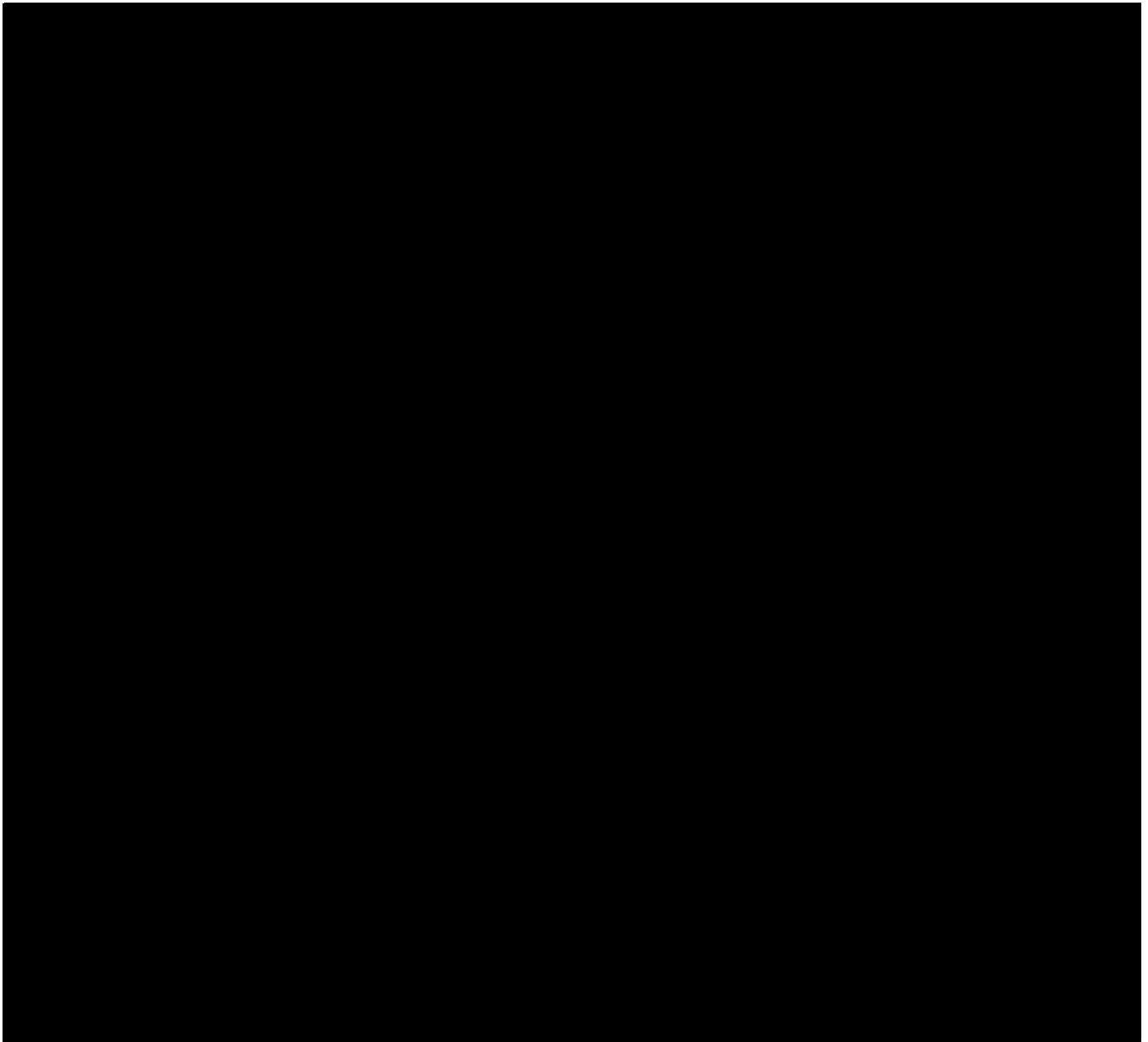
INTRODUCTION

The home office of Lundberg is located in Bellevue, Washington, with satellite offices in Monroe, Louisiana; Jacksonville, Florida; and Old Saybrook, Connecticut. Lundberg serves the European market through our wholly owned subsidiary, A.H. Lundberg Systems, S.L., located in Bilbao, Spain. Throughout the rest of the world, we are represented by independent agents. Since the founding of A.H. Lundberg Associates nearly 40 years ago, Lundberg has grown from a supplier of peripheral process systems within the pulp and paper industry to become a leading supplier of environmental, evaporation, chemical processing, and energy efficiency solutions to a wide variety of industries including pulp and paper, wood products, green energy, biomass, chemical, mining, and others. Continuous involvement in a limited area permits us to offer specialized services resulting in up-to-date technology.

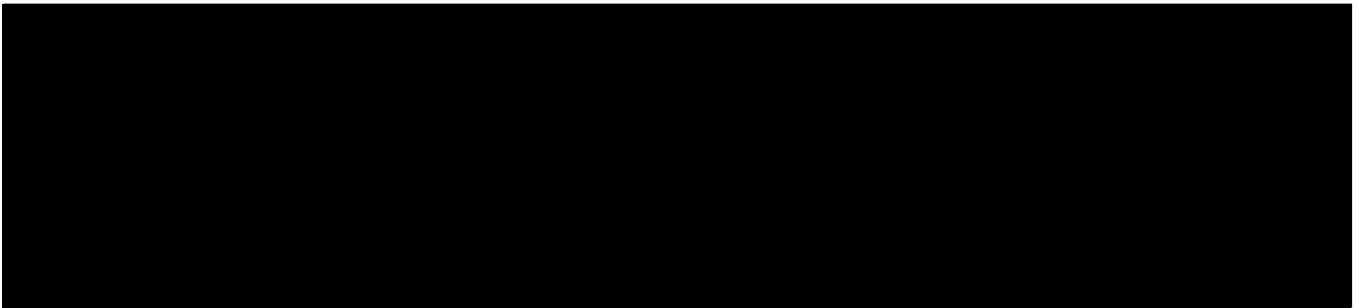
The system design and equipment supply covered by this proposal are entirely within our specialized area of activities. Experience from current projects is being used in this proposal to present the latest applied approach to CNCG incineration system design.

SECTION ONE: CNCG FLARE QUENCHING AND SCRUBBING SYSTEM

PROCESS DESCRIPTION – CNCG QUENCHING AND SCRUBBING SYSTEM

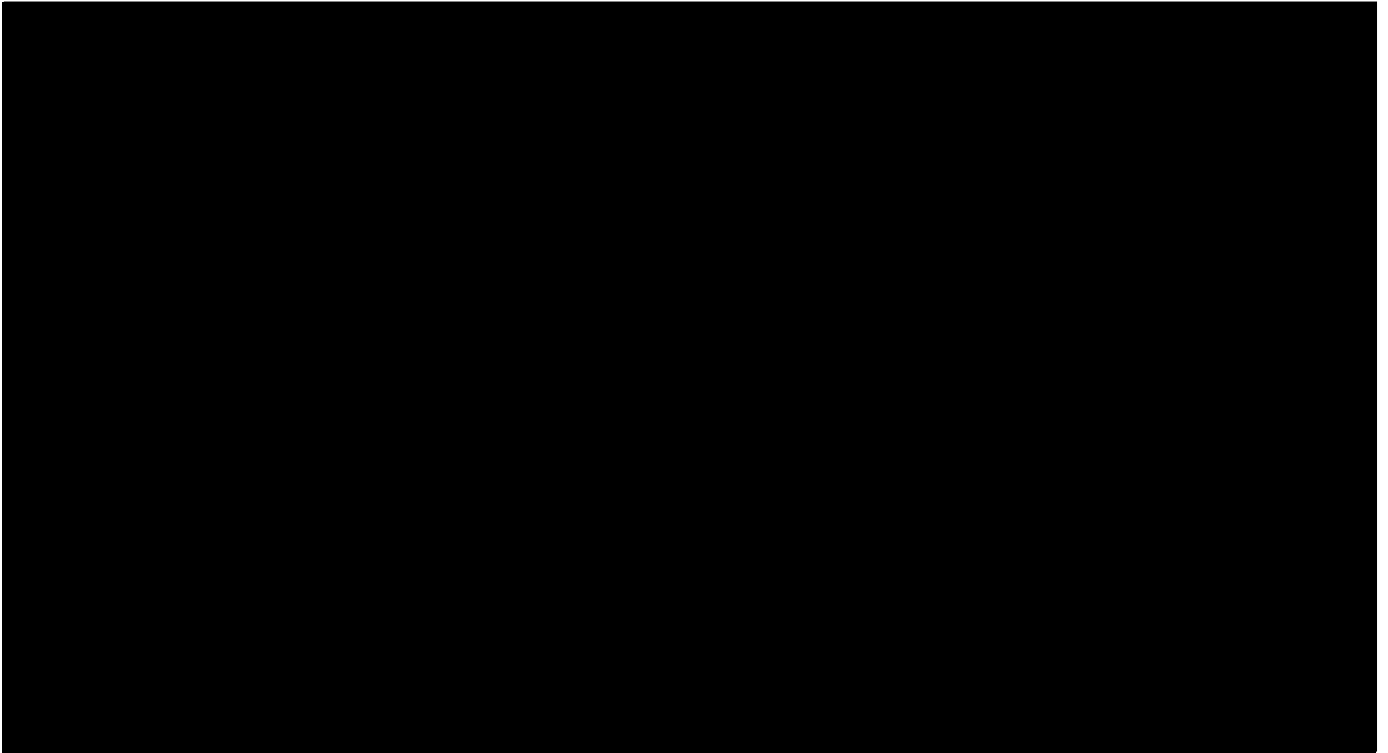


ALTERNATE QUICK STARTUP INCINERATOR



products are covered.

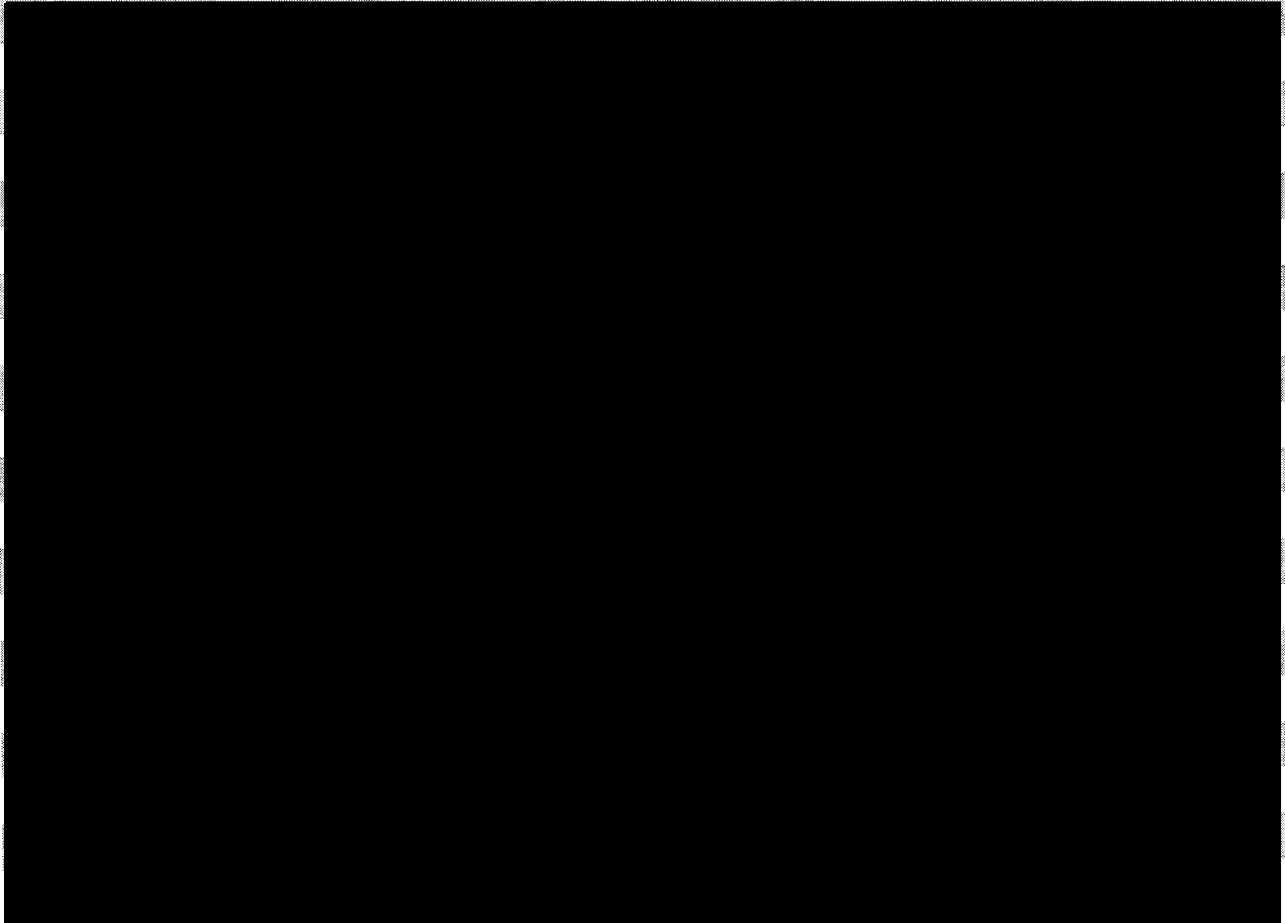
SYSTEM ADVANTAGES



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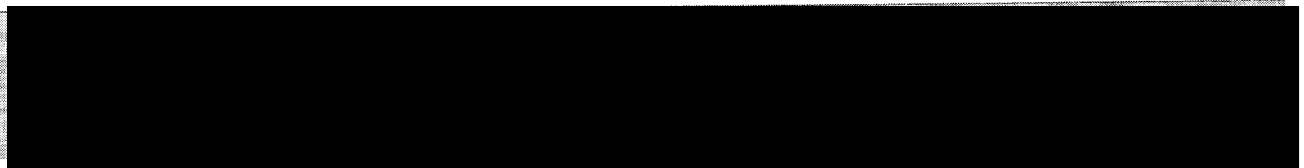
DESIGN BASE



PROPOSED ENGINEERING SUPPLY

ITEM	QUANTITY	DESCRIPTION
[Redacted Content]		

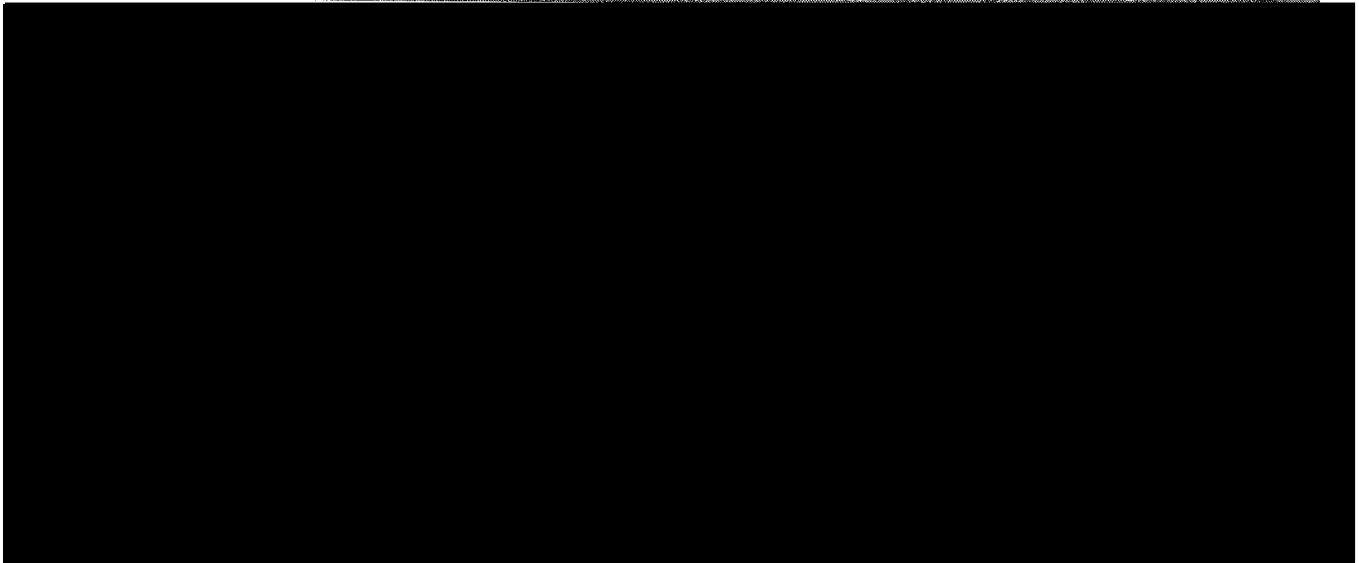
Alternate Additional Supply



EQUIPMENT SPECIFICATIONS

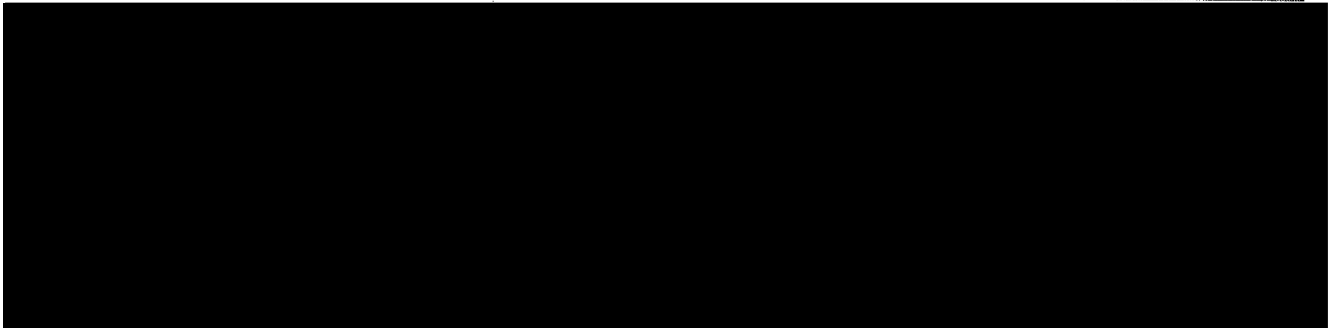
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SYSTEM ENGINEERING



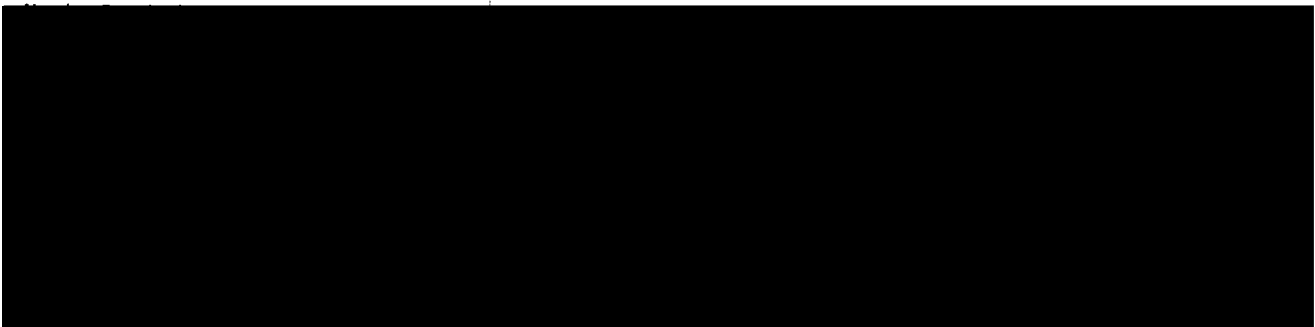
ITEM NO. 2:

HOT GAS DUCT



ITEM NO. 3:

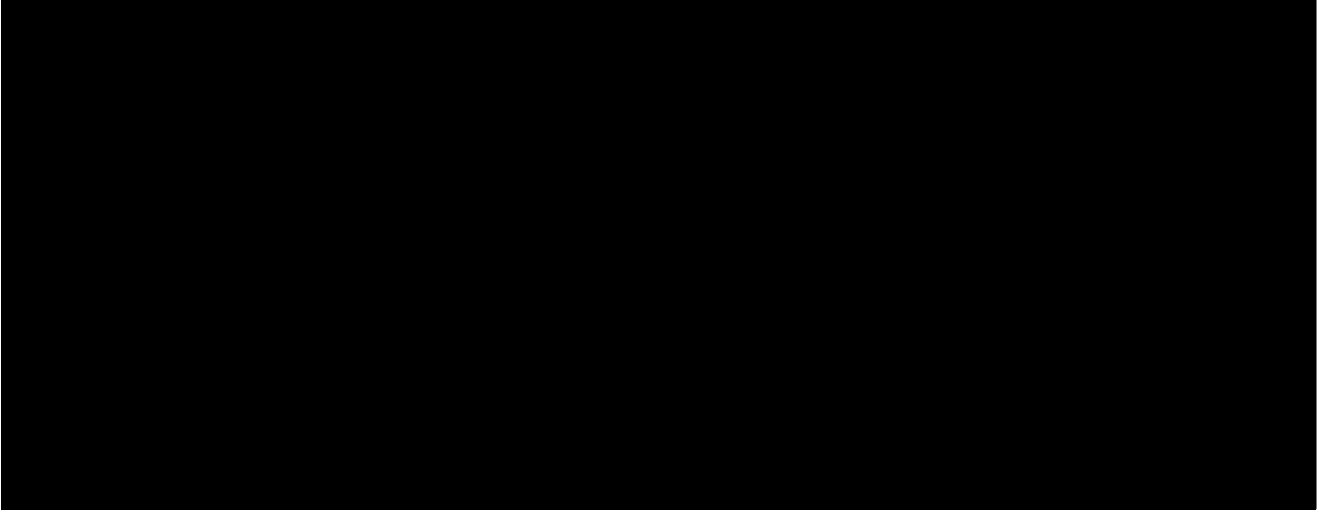
QUENCH VESSEL



EQUIPMENT SPECIFICATIONS - CONTINUED

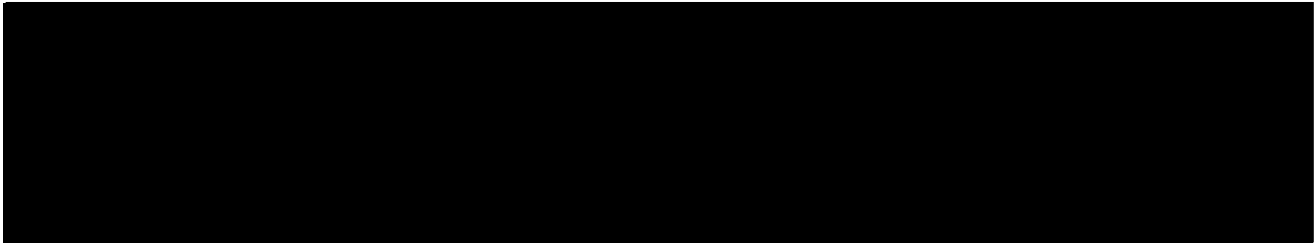
ITEM NO. 4:

ABSORPTION TOWER



ITEM NO. 5:

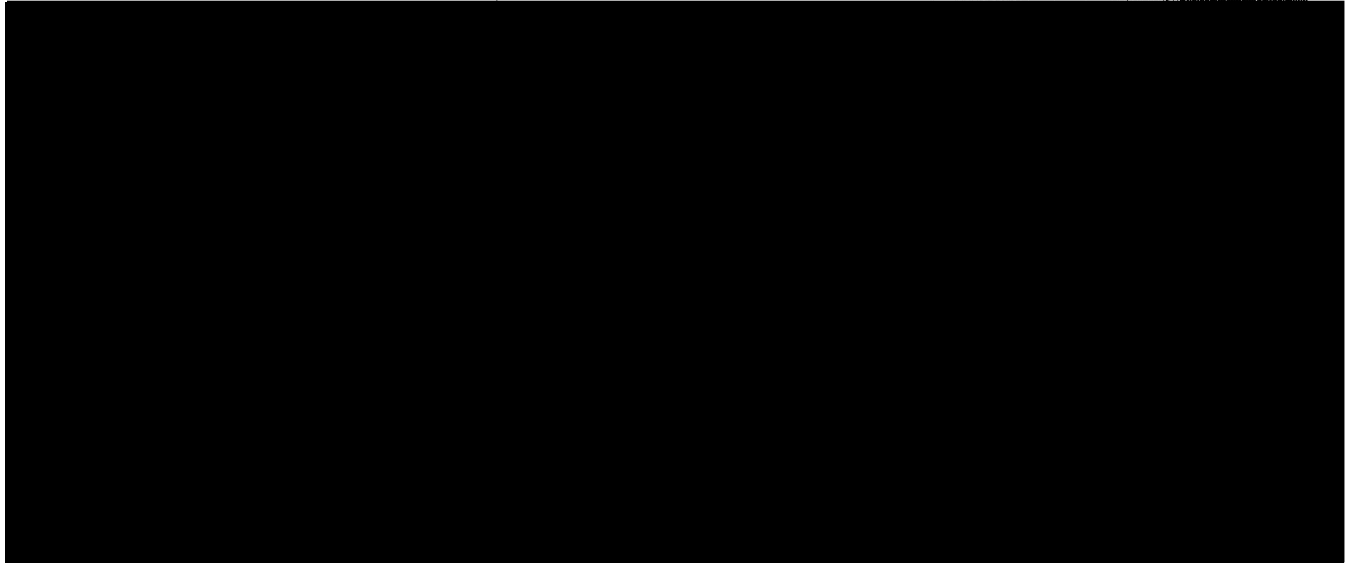
FIELD SERVICES



EQUIPMENT SPECIFICATIONS — ALTERNATE ADDITIONAL SUPPLY

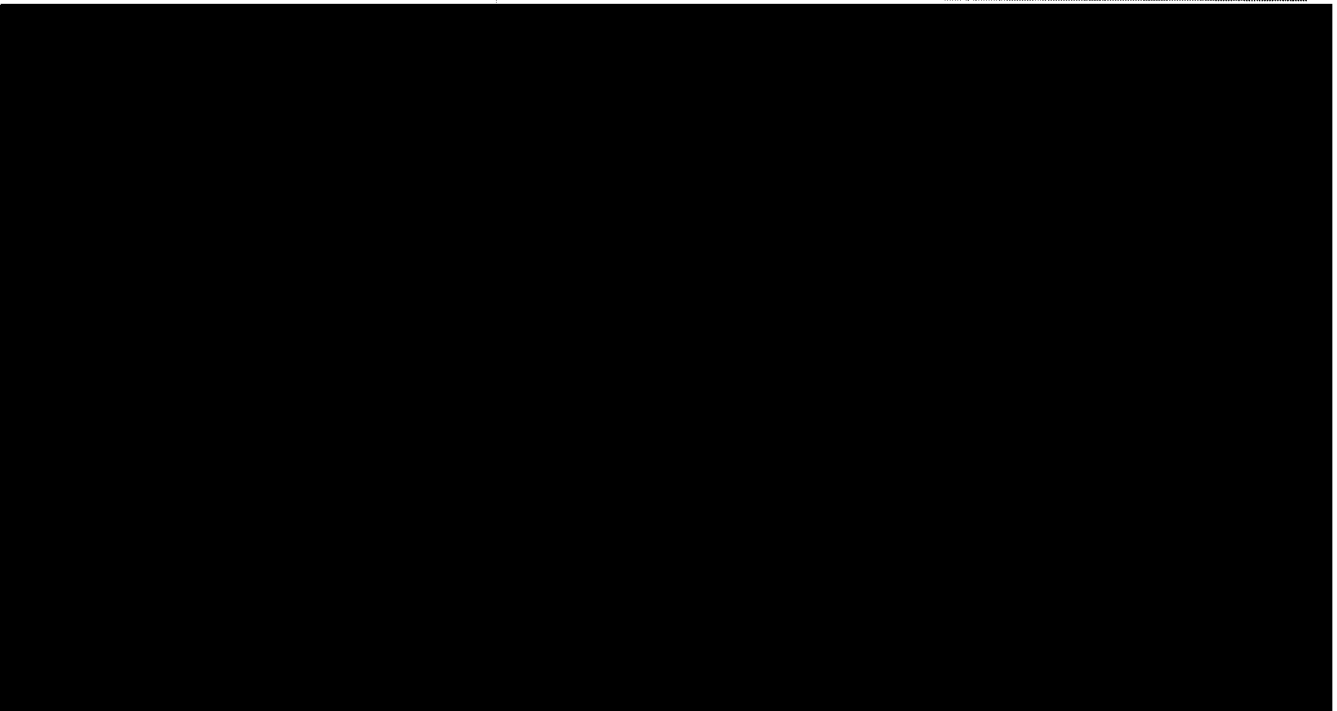
ITEM NO. 6:

DEDICATED CNCG INCINERATOR



ITEM NO. 7:

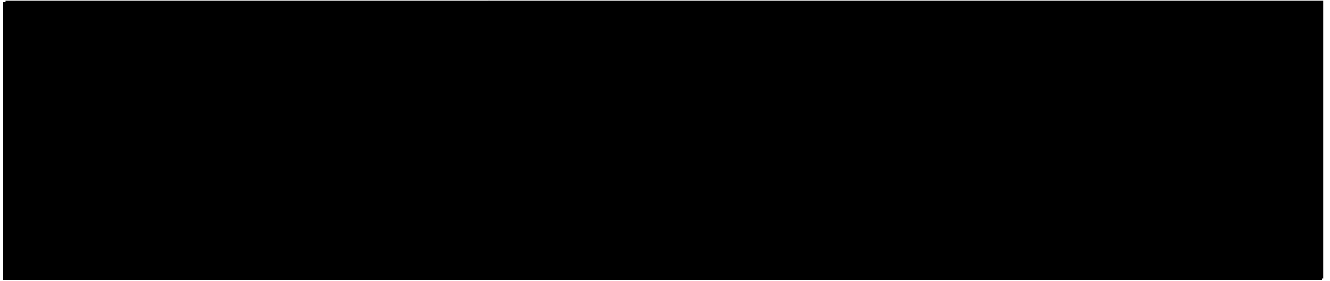
BURNER AND BURNER MANAGEMENT SYSTEM



EQUIPMENT SPECIFICATIONS – ALTERNATE ADDITIONAL SUPPLY – CONTINUED

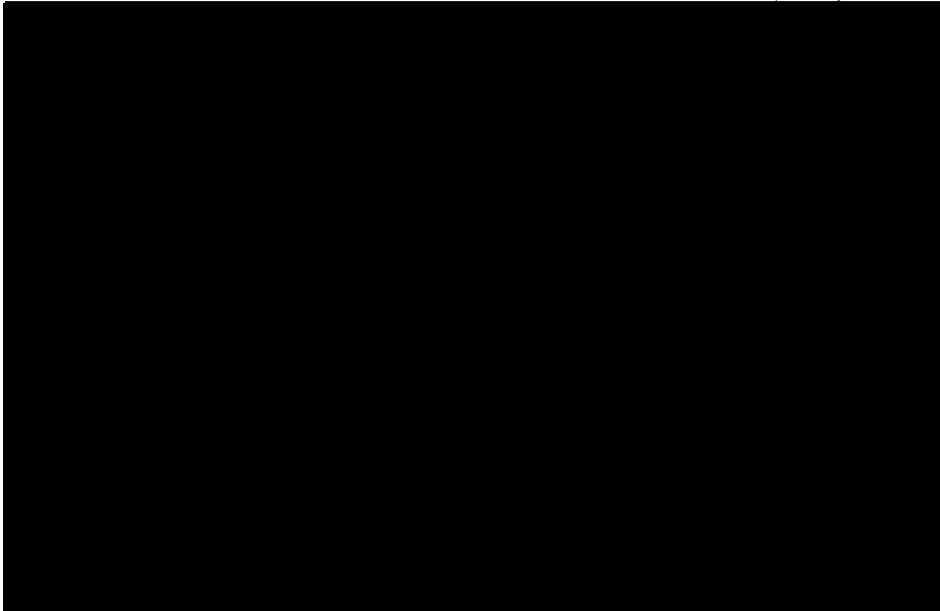
ITEM NO. 8:

DEDICATED INCINERATOR COMBUSTION/COOLING AIR FAN

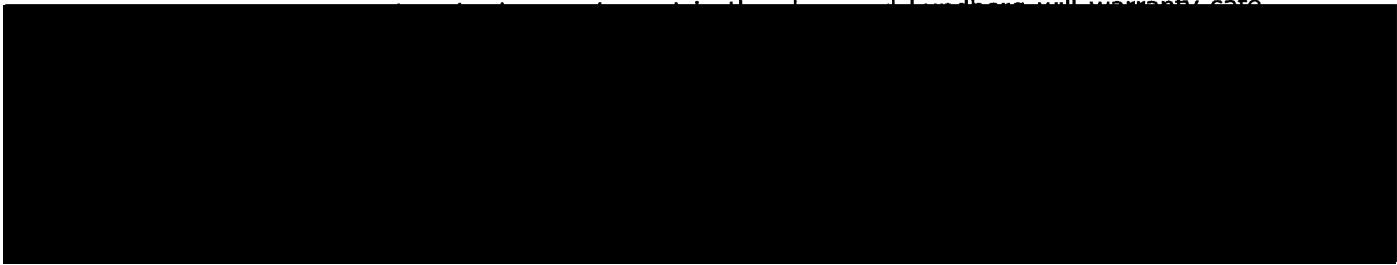


SECTION TWO: COMMERCIAL TERMS & CONDITIONS

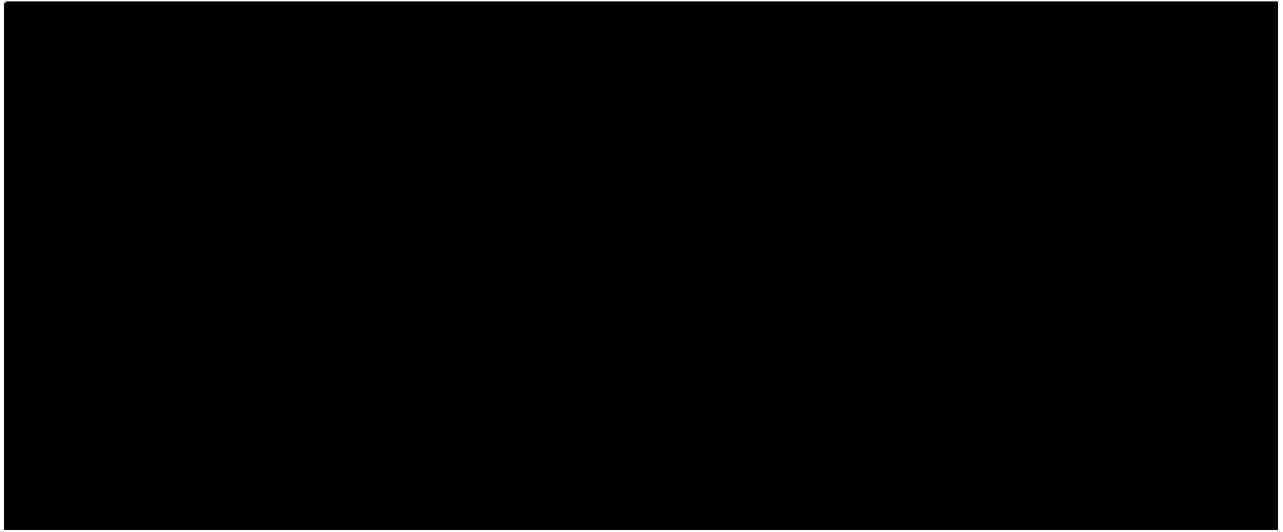
WORK BY OTHERS



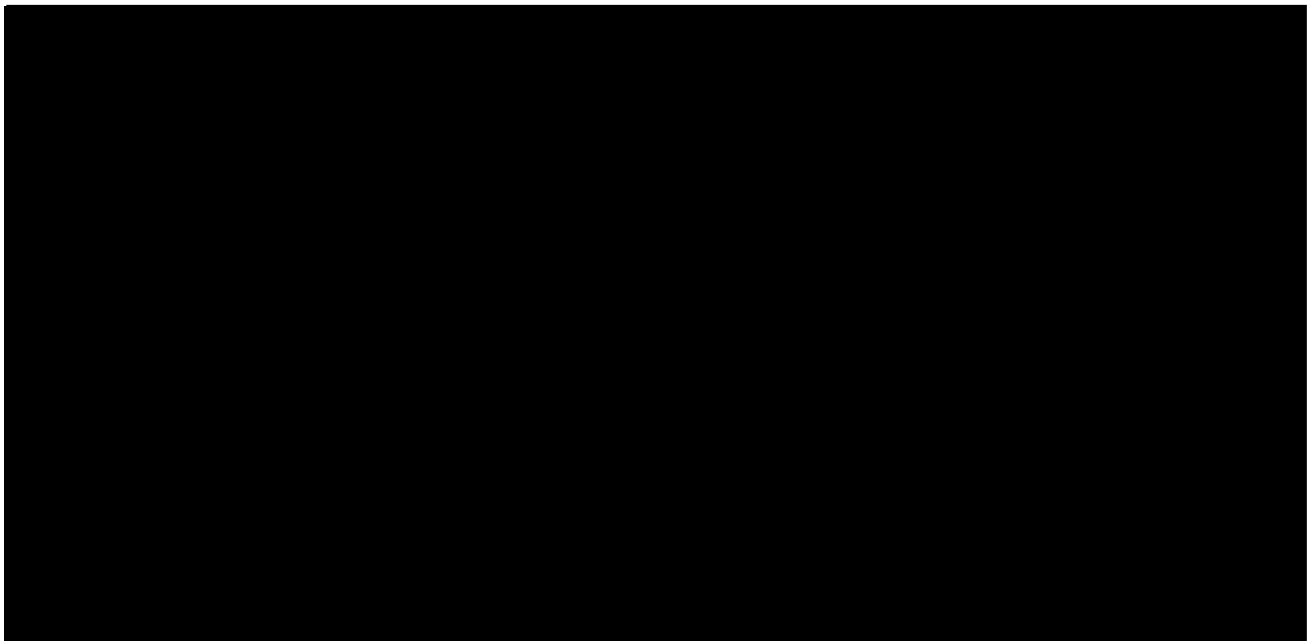
CLARIFICATIONS



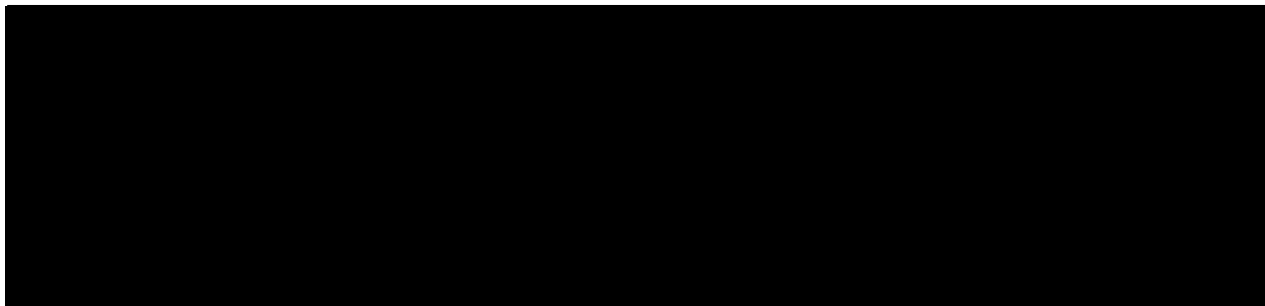
PRICE

**ESCALATION**

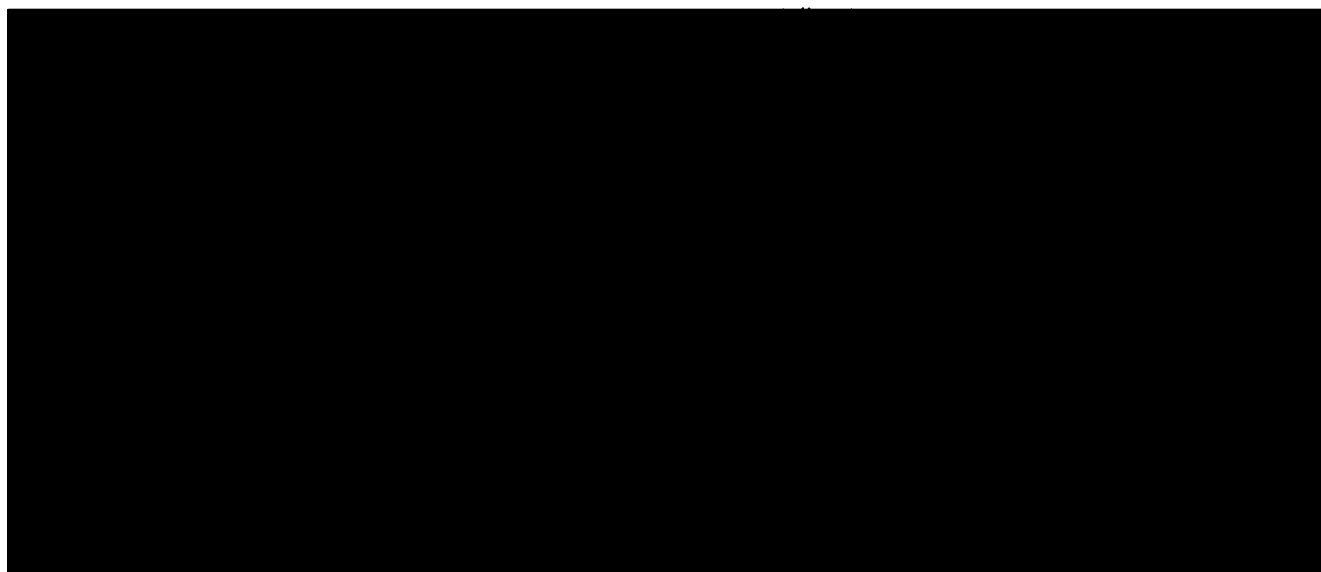
**TERMS OF PAYMENT**



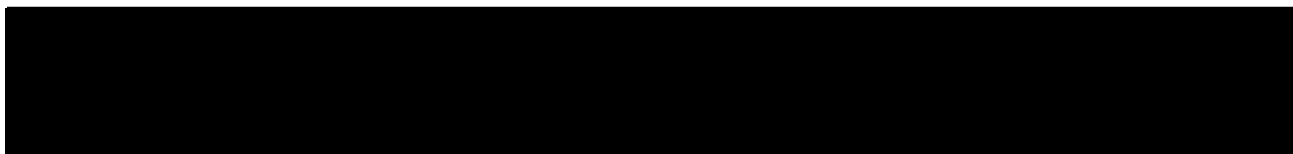
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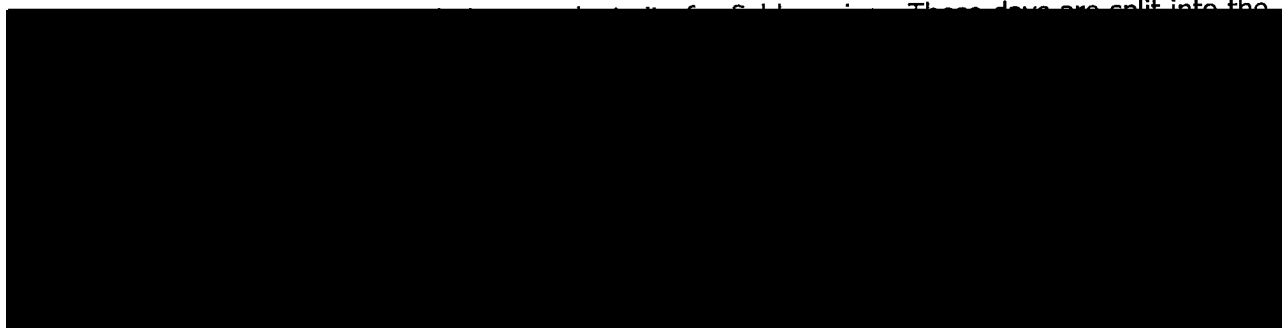
ENGINEERING SCHEDULE



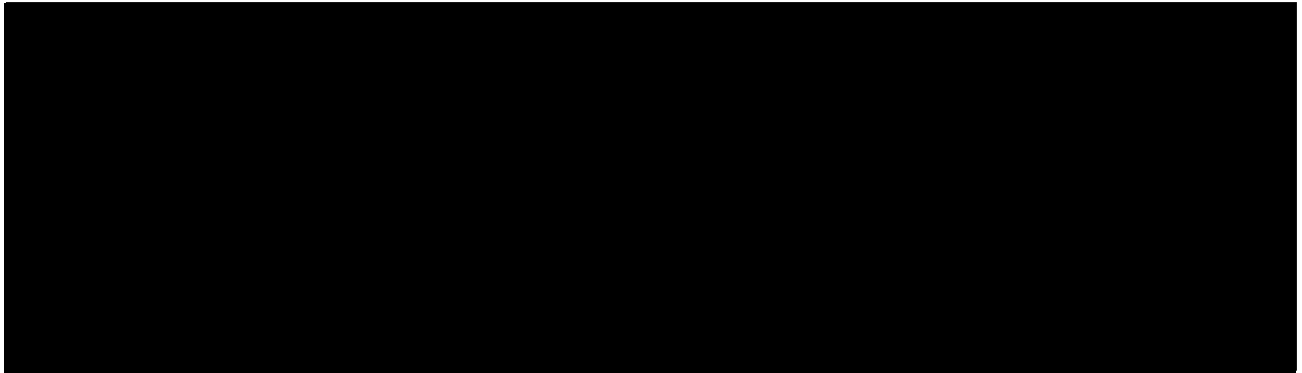
CANCELLATION



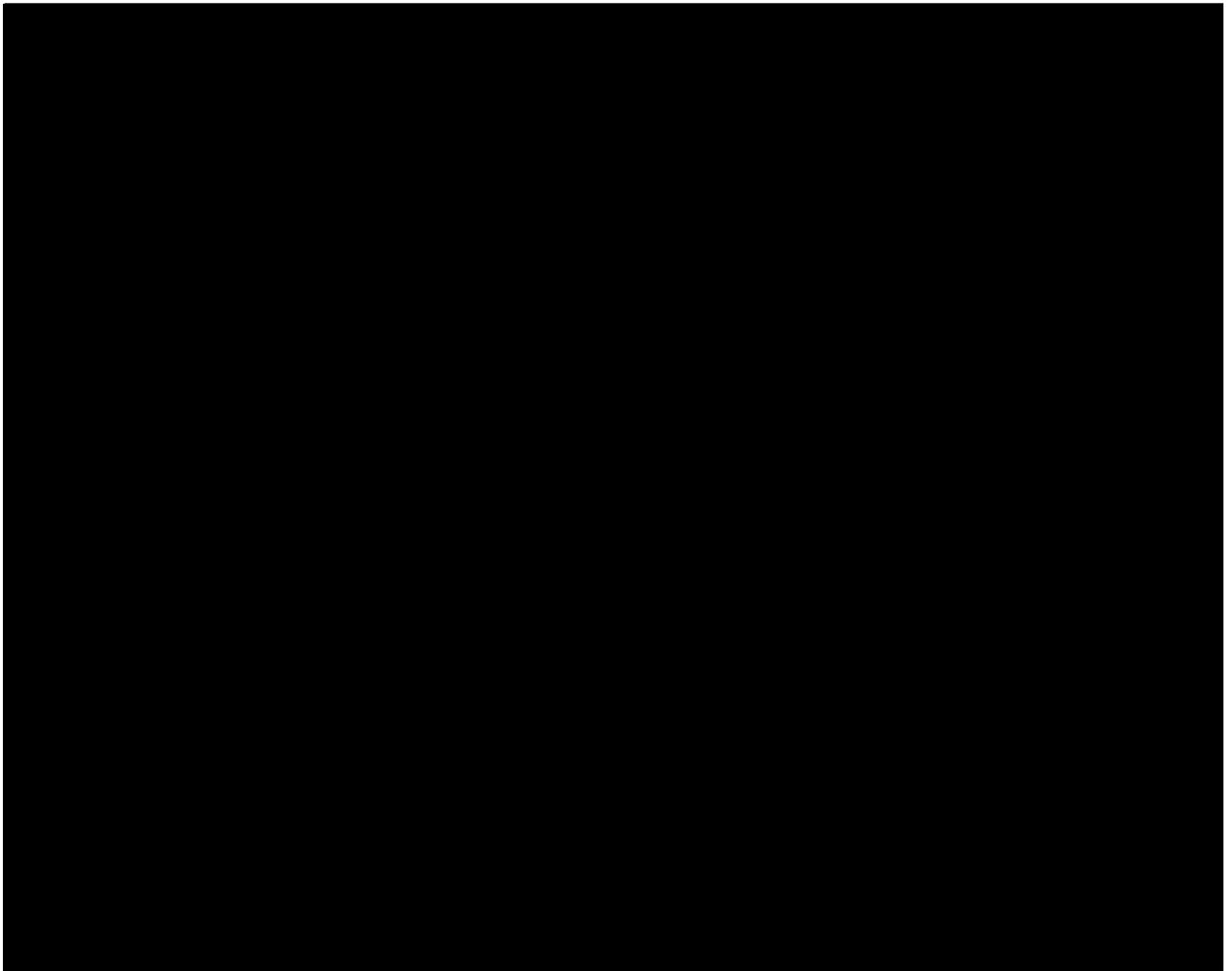
FIELD SERVICES



MATERIAL AND WORKMANSHIP



PROCESS WARRANTY



VENDOR'S RESPONSIBILITY

[REDACTED]

SECURITY INTEREST

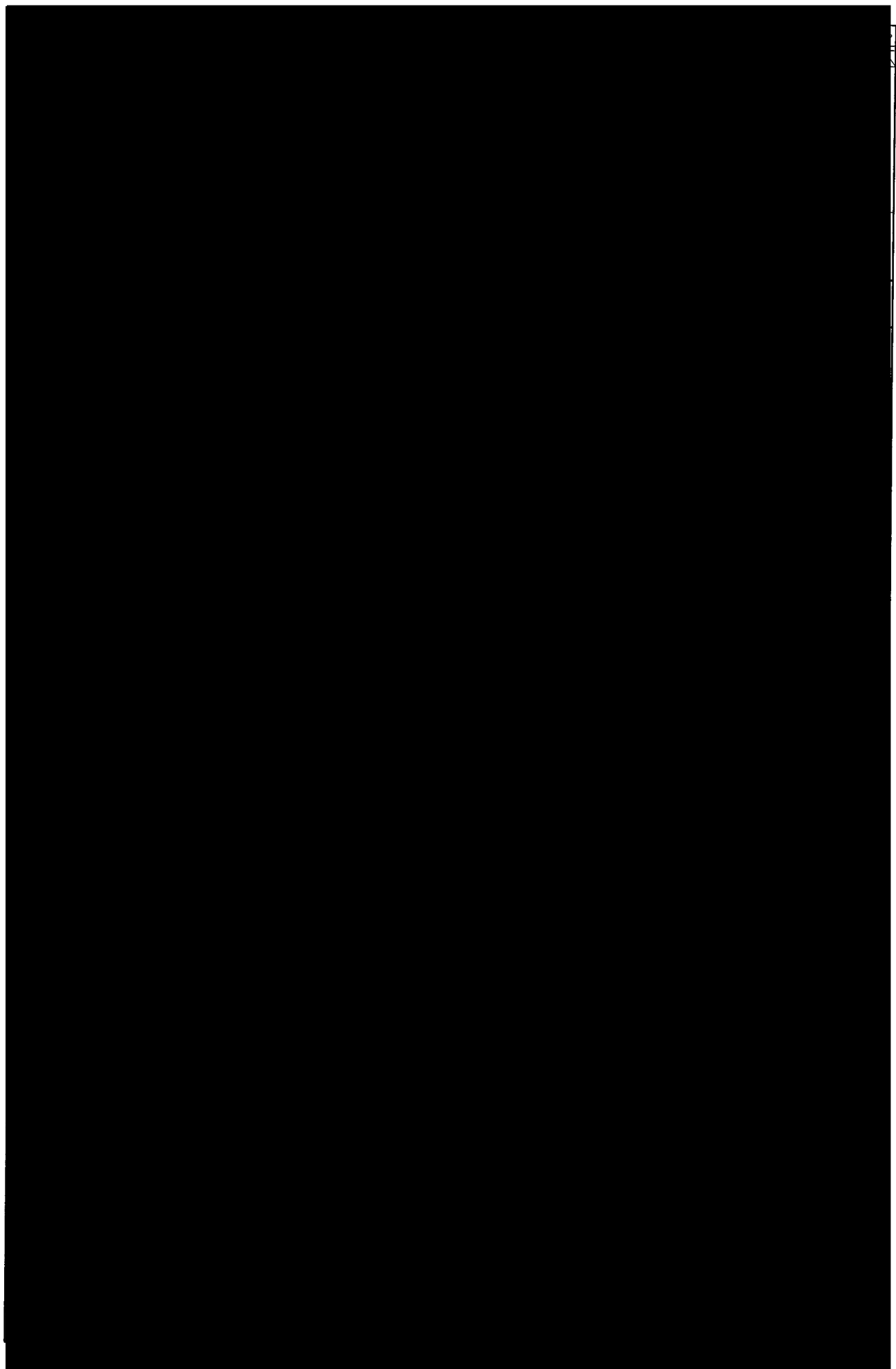
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CONFIDENTIALITY OF PROPOSAL INFORMATION

[REDACTED]

ENCLOSURE(S)

[REDACTED]





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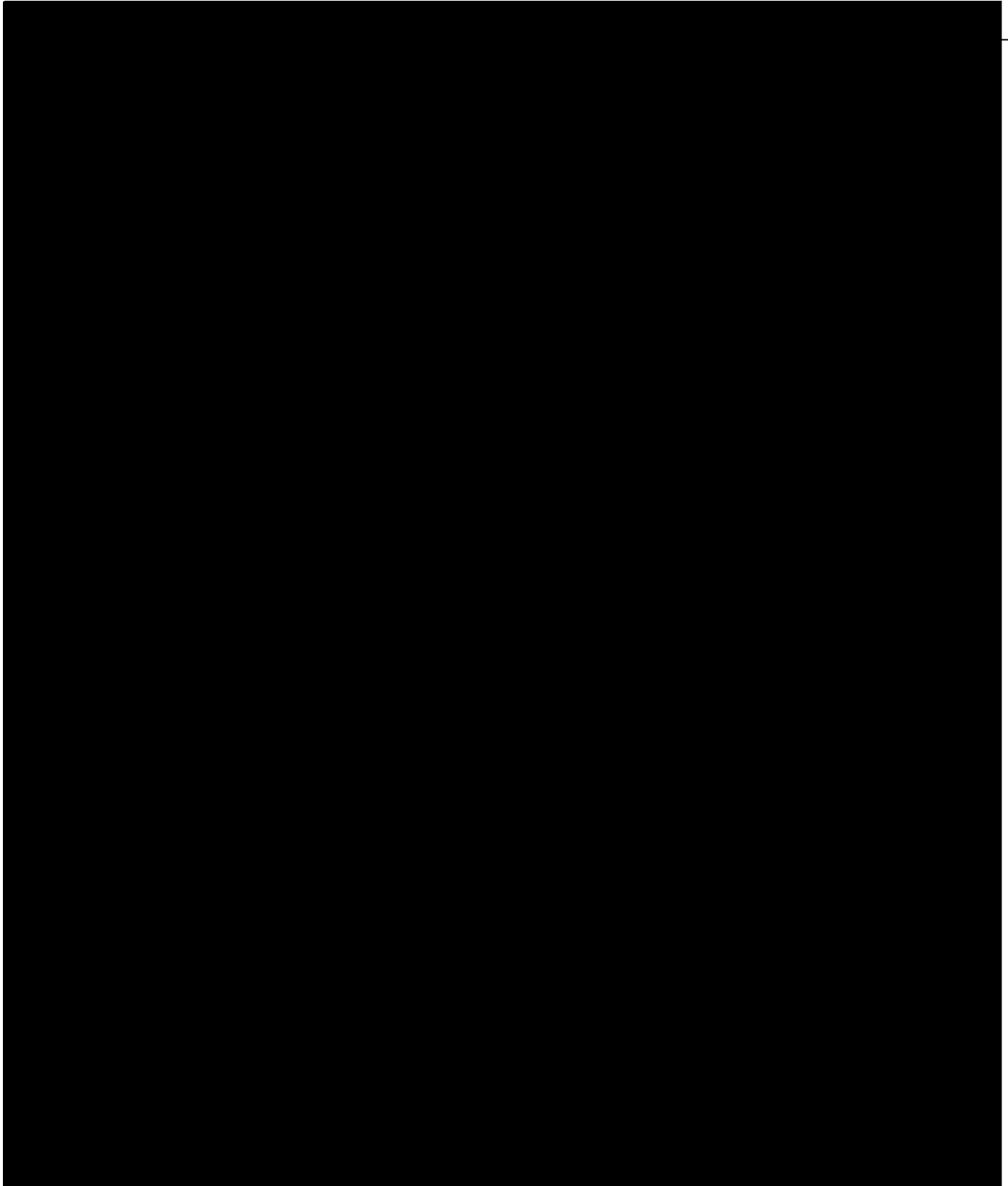
NONCONDENSIBLE GAS COLLECTION AND
ODOR ABATEMENT SYSTEMS AND EQUIPMENT
INSTALLATION LIST

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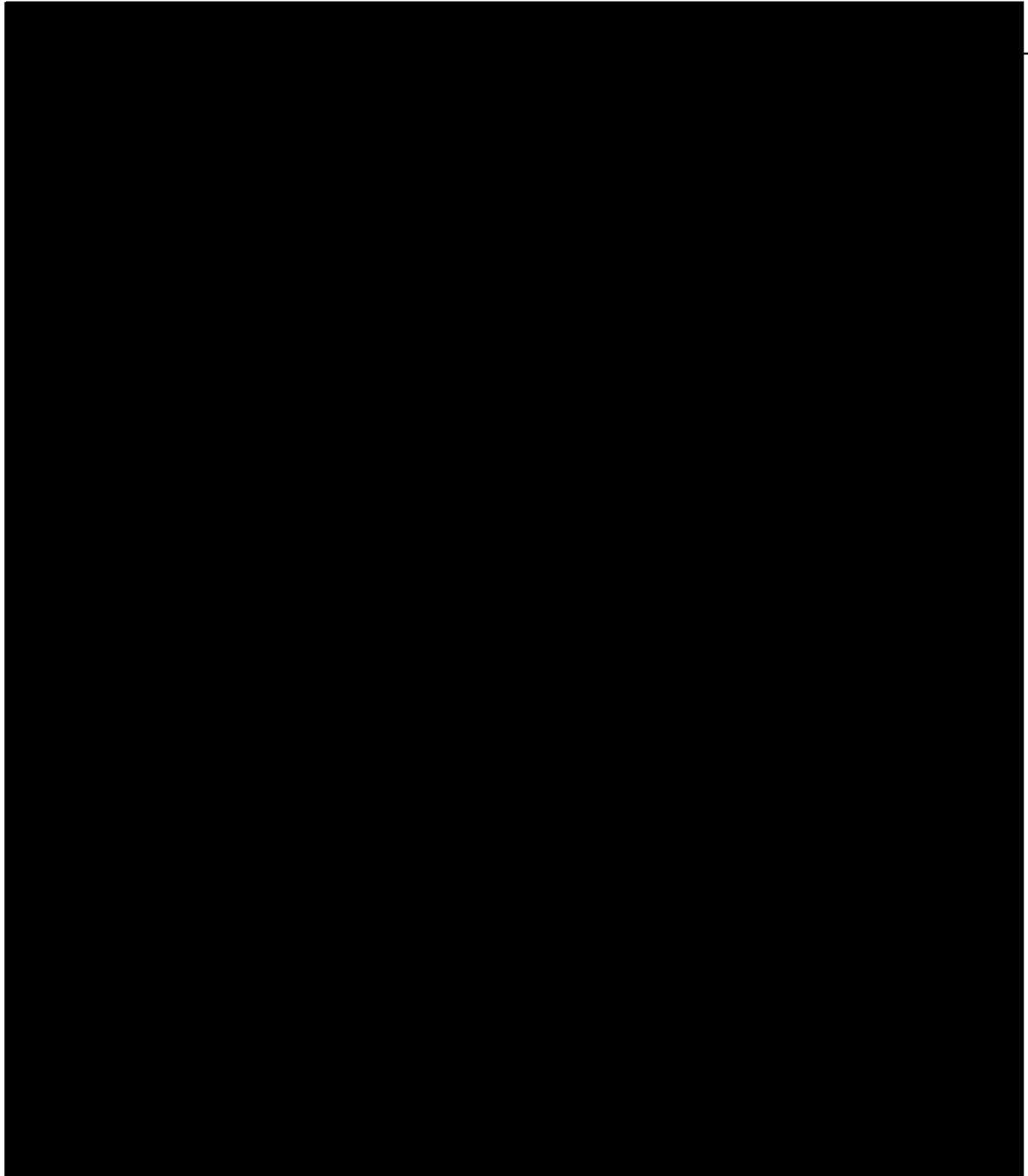


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Company	Location	Application
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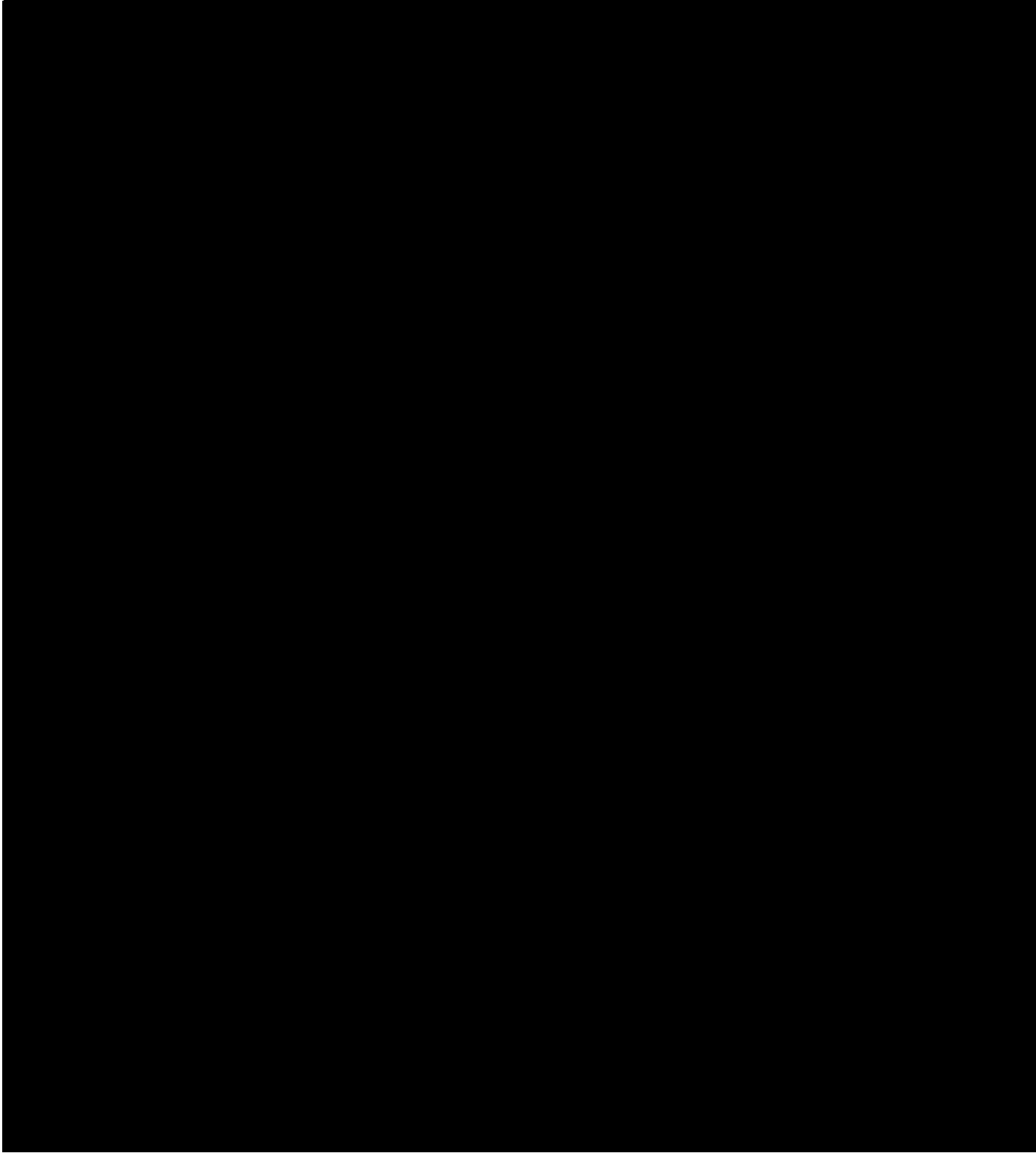
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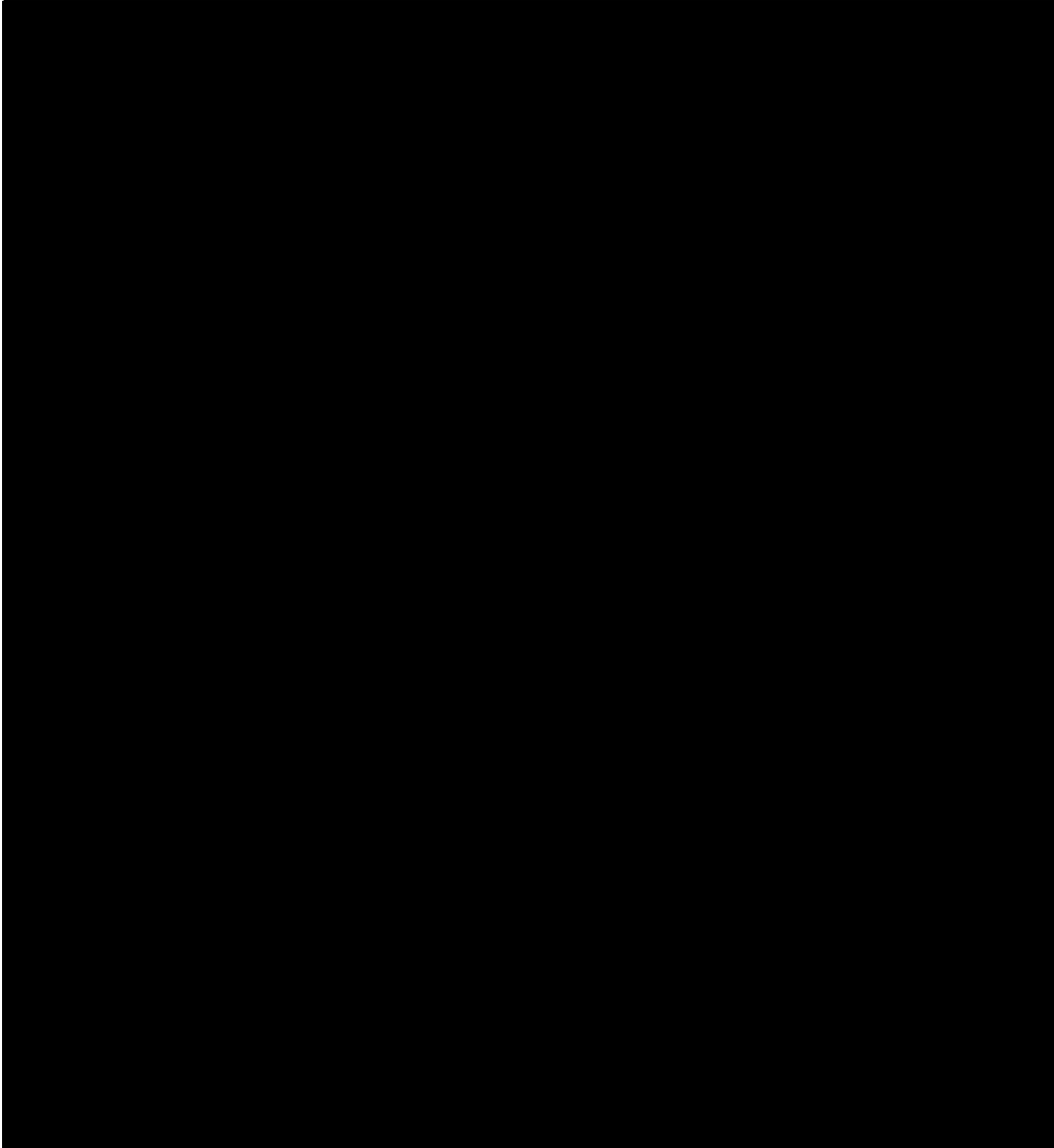


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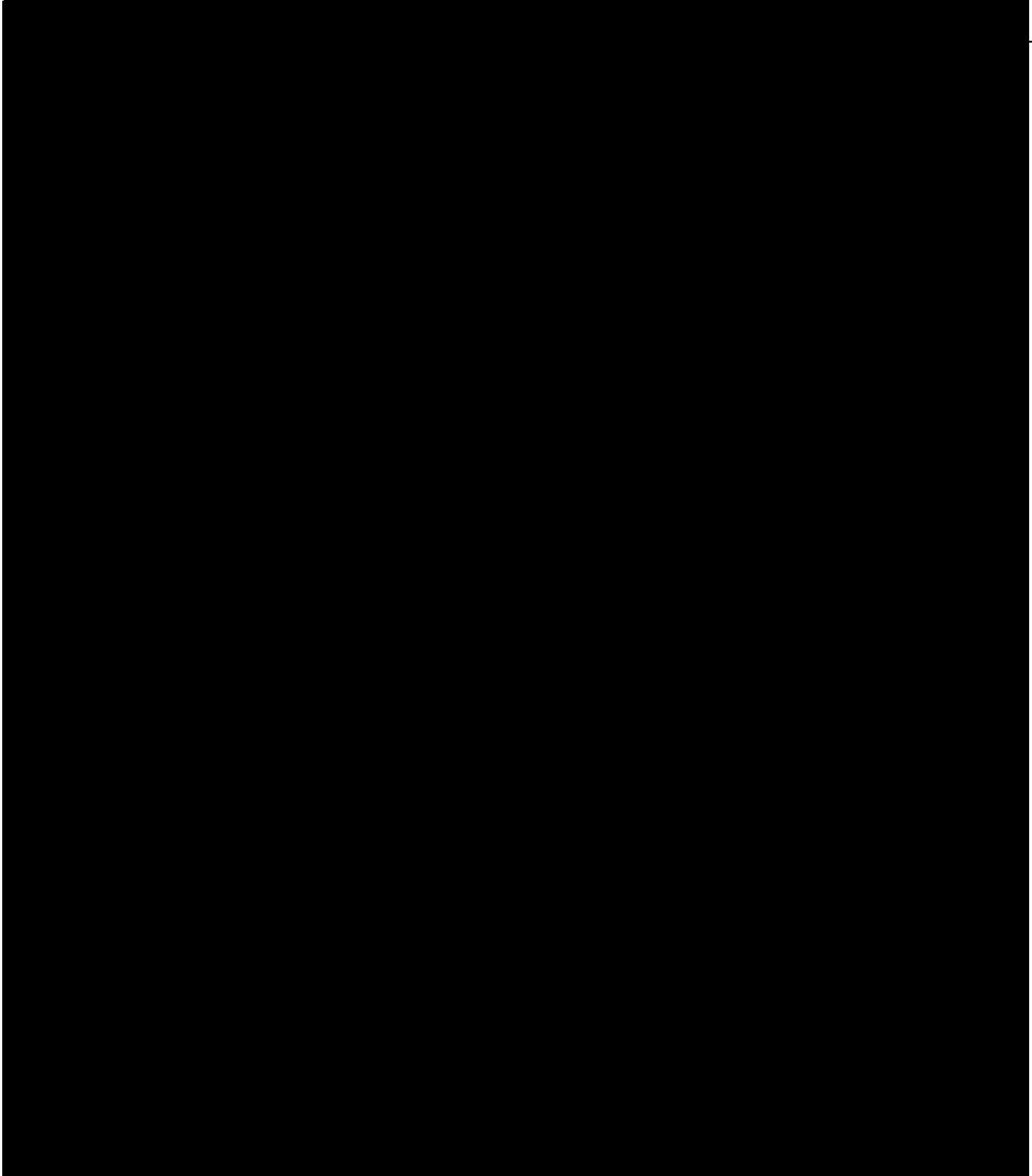


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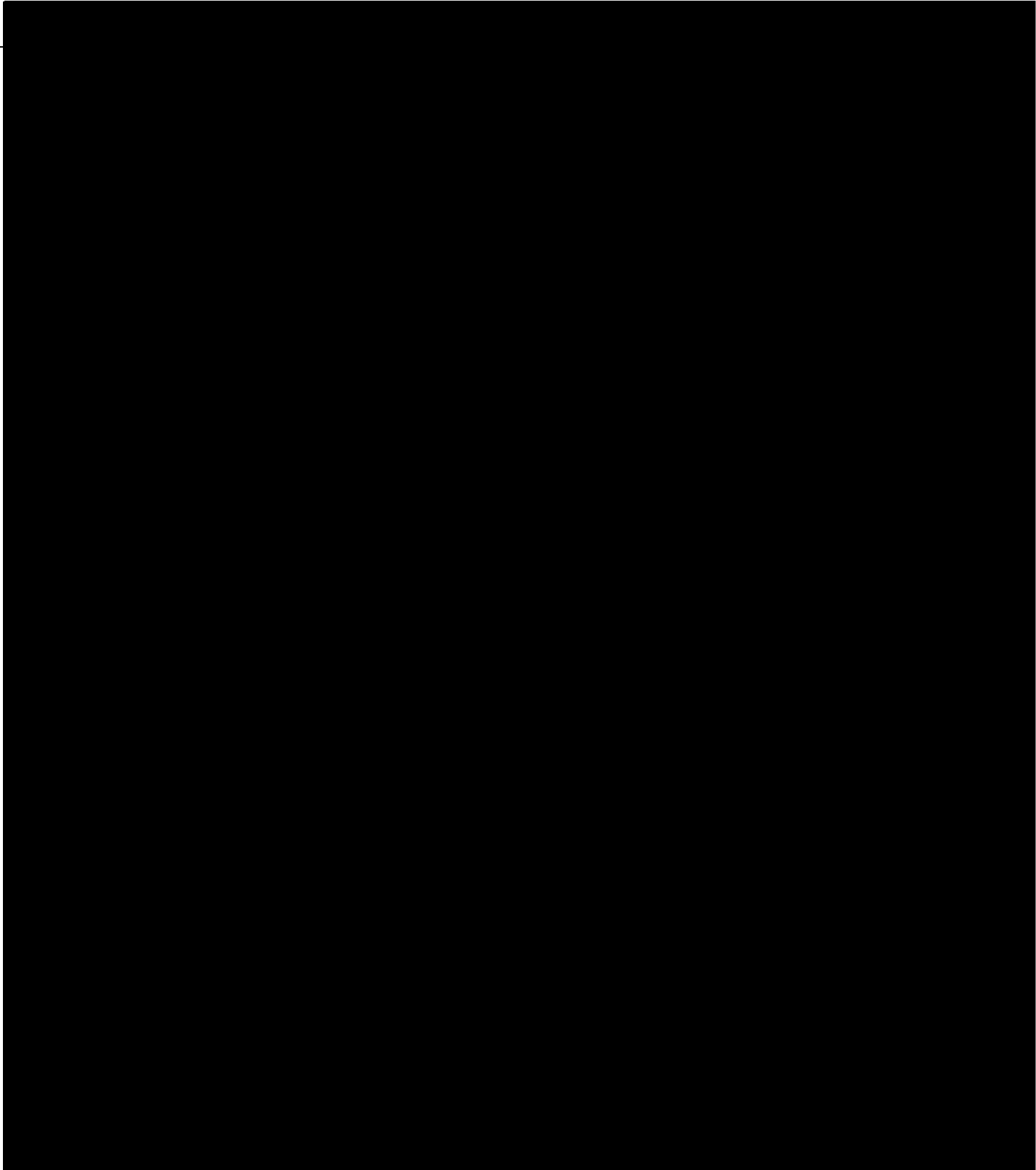
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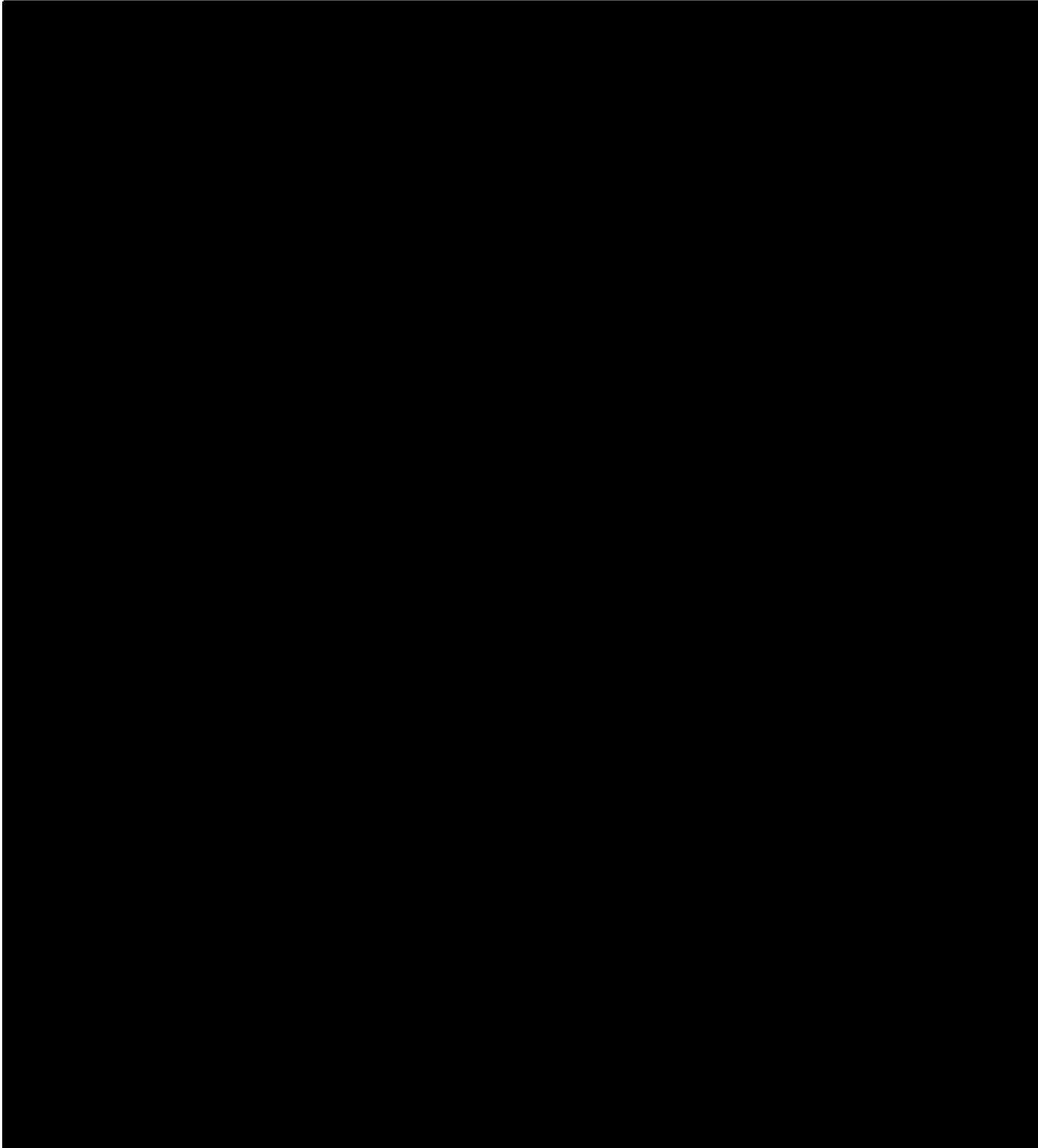
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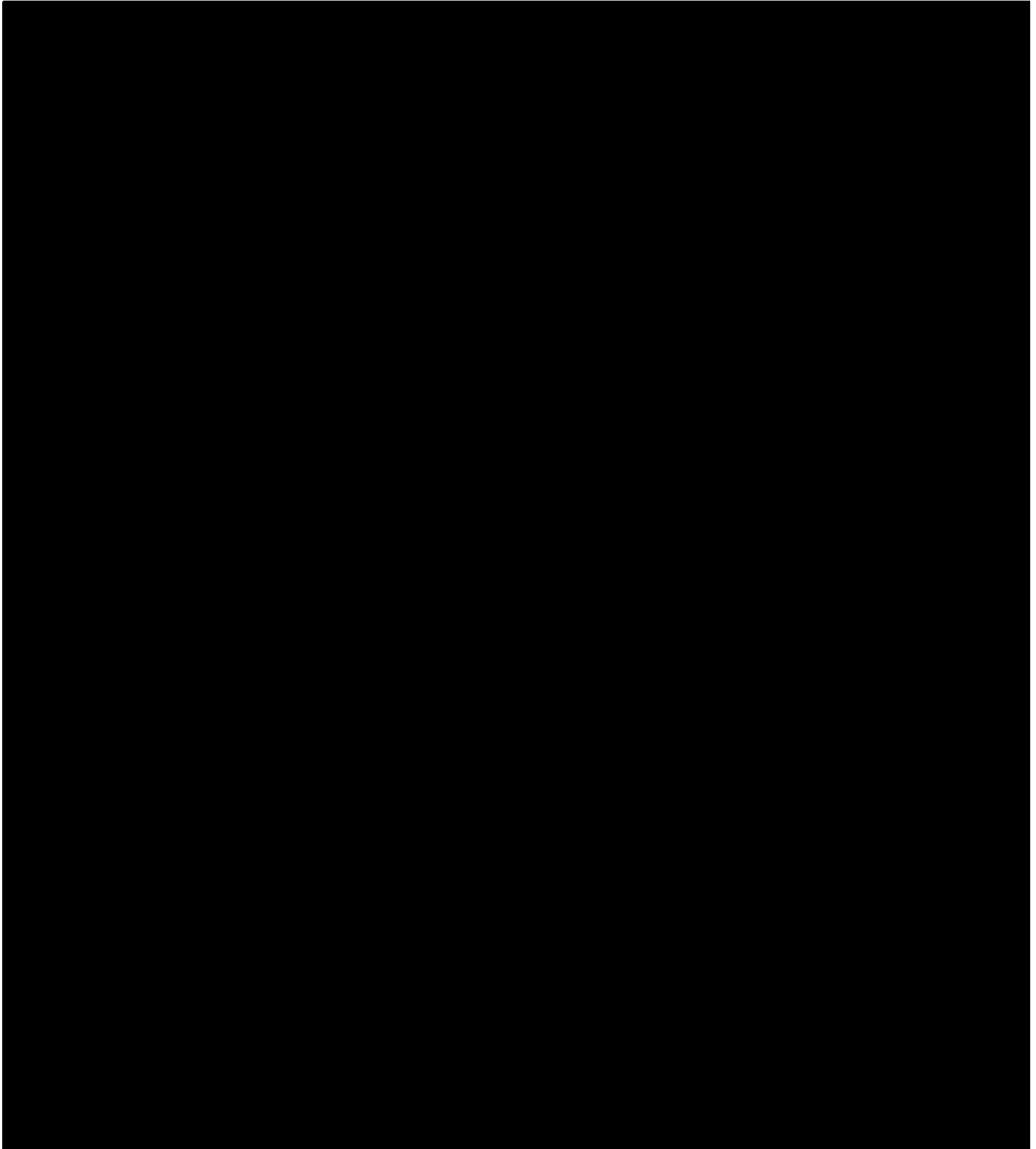


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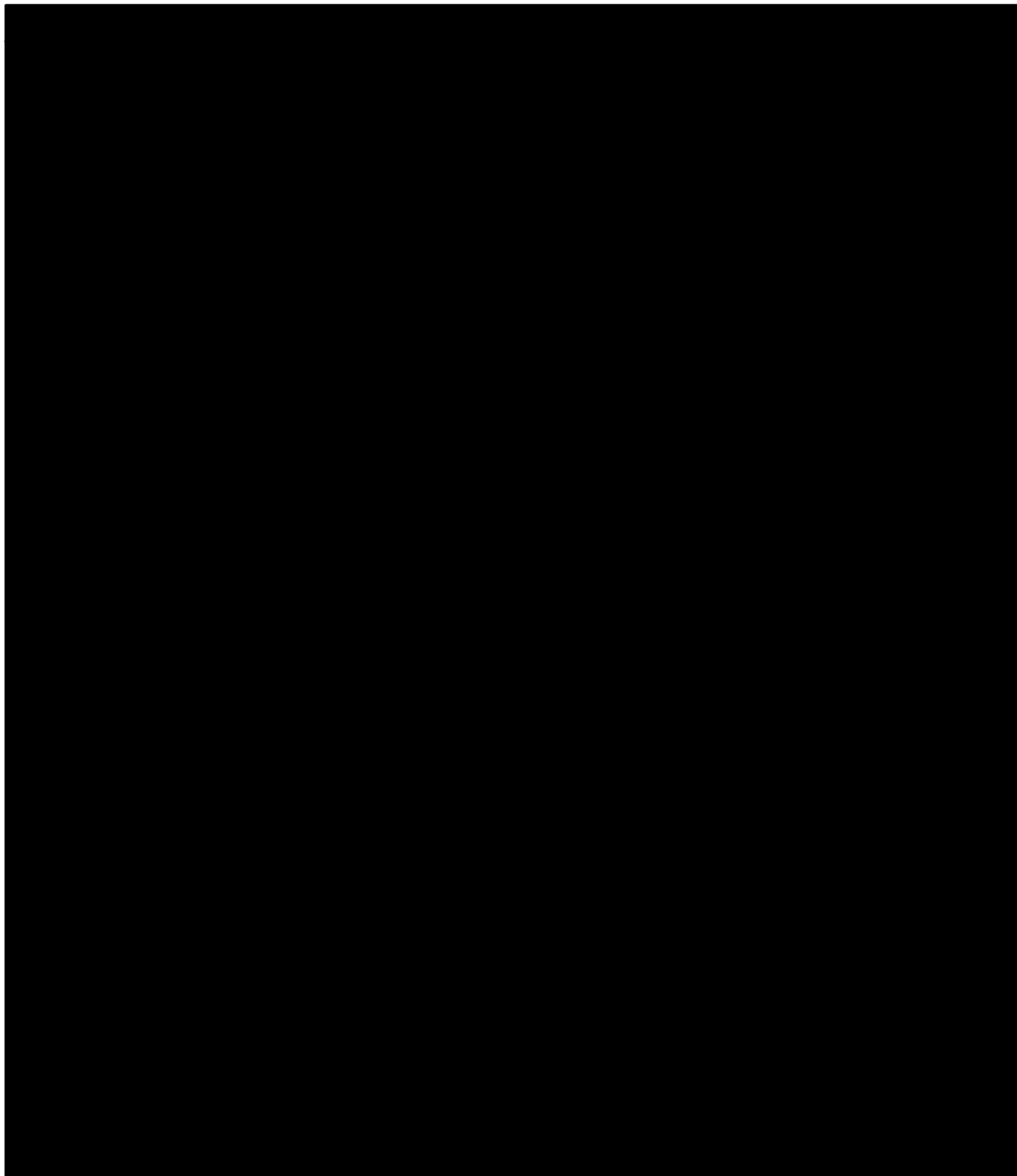


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