



Filing Receipt

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1.0 POWER GENERATION COMPANY INFORMATION

PGC Name	PGC Number	Generating Facility Names
Rayos del Sol Solar Project, LLC	20658	Nebula Solar and Vancourt Solar

2.0 EXECUTIVE SUMMARY - EOP CONTENTS

2.1 Summary of Emergency Operations Annex

The *Emergency Operations Annex* is the over-arching document that sets the policies for severe weather planning, identification of equipment critical failure points, identification of business continuity critical failure points for personnel, restoration of services, and training and drill requirements. This Annex also contains the general emergency site procedures (e.g. evacuation, personnel injuries and treatment, fire and hazardous material response, and suspected threats or sabotage).

2.2 Summary of Pandemic and Epidemic Preparedness Annex

The *Pandemic and Epidemic Annex* serves as the annex for maintaining essential functions and services during a pandemic. This document addresses the specialized continuity planning required by addressing considerations, challenges, and elements specific to the dynamic nature of a pandemic or epidemic. The Annex defines a crisis team that is responsible for evaluation and assessment, as well as the development of response actions and communications.

2.3 Summary of Hot Weather Annex

This annex document the programs in place to maintain the facility's reliability and to prevent extreme hot weather-related events from having adverse impacts to reliability or operations. The annex documents the actions that will be taken in advance of each season and in accordance with requirements to safeguard personnel and the facility critical components from weather-related impacts. Included in the annex are checklists to document equipment and inventory reviews, pre-season assessments and communications (which include the review of best practices and lessons learned), as well as during-season reviews and communications.

2.4 Summary of Cold Weather Annex

This annex document the programs in place to maintain the facility's reliability and to prevent extreme cold weather-related events from having adverse impacts to reliability or operations. The annex documents the actions that will be taken in advance of each season and in accordance with requirements to safeguard personnel and the facility critical components from weather-related impacts. Included in the annex are checklists to document equipment and inventory reviews, pre-season assessments and communications (which include the review of best practices and lessons learned), as well as during-season reviews and communications.

2.5 Summary of Hurricane Annex Content

This annex addresses the requirements related to preparing for and responding to severe weather events specific to hurricanes and tropical storms and supports the *Hot Weather Annex* and the *Cold Weather Annex*. The annex addresses pre-hurricane season checks and training, pre-event checks when hurricane or tropical storm conditions are forecast, communications within the PGC organizational structure as well as to external Reliability Entities. In the event an evacuation is necessary, guidance is given for evacuation and subsequent re-entry into the facility. Additionally, high-level safety protocols are described for re-entry into a facility that was unattended during storm conditions.

2.6 Cyber and Physical Security Incident Annex

This annex is specific to cyber security and physical security incidents and provides information on identification and escalation of potential or actual cyber or physical security incidents. The annex addresses how to identify potential physical or cyber indicators of an incident, and how to escalate, investigate, and report a potential or actual incident.

3.0 EXECUTIVE SUMMARY – DOCUMENT AND REQUIREMENTS MAPPING

Requirement	Addressed in document	Where it is addressed in the document
(d) Information to be included in the emergency operations plan		
(1)(A)	Emergency Operations Plan	Section 1.0 Approval and Implementation (p. 3) <ul style="list-style-type: none"> 1.1 Introduction 1.2 Applicability 1.3 Statements of §25.53 Non-Applicability
(1)(B)	Emergency Operations Plan	Section 1.0 Approval and Implementation (p.3) <ul style="list-style-type: none"> B. Roles and Responsibilities (p. 4)
(1)(C)	Emergency Operations Plan	Section 1.0 Approval and Implementation (p.3) <ul style="list-style-type: none"> C. Revision Control Summary (p.5)
(1)(D)	Emergency Operations Plan	Section 1.0 Approval and Implementation (p.3) <ul style="list-style-type: none"> C. Revision Control Summary (p.5)
(1)(E)	Emergency Operations Plan	Section 1.0 Approval and Implementation (p.3) <ul style="list-style-type: none"> D. Approvals (p.6)
(2)(A)	Emergency Operations Plan	Section 1.0 Approval and Implementation (p.3) <ul style="list-style-type: none"> 1.1 Introduction 1.2 Applicability 1.3 Statements of §25.53 Non-Applicability
(2)(B)	Emergency Operations Plan	Section 2.0 Communication Plan (p.6)
(2)(C)	Emergency Operations Plan	Section 1.0 Approval and Implementation (p.3) <ul style="list-style-type: none"> 1.1 Introduction 1.2 Applicability 1.3 Statements of §25.53 Non-Applicability
(2)(D)	Emergency Operations Plan	Section 1.0 Approval and Implementation (p.3) <ul style="list-style-type: none"> 1.1 Introduction 1.2 Applicability 1.3 Statements of §25.53 Non-Applicability

Requirement	Addressed in document	Where it is addressed in the document
(3)	Emergency Operations Plan	<ul style="list-style-type: none"> Section 3.0 Plan for Pre-Identified Supplies for Emergency Use (p.7)
	Cold Weather Annex	5.0 Cold Weather Preparation and Response Processes (p.6) <ul style="list-style-type: none"> 5.1 Cold Weather Equipment Inventory List (p.6) 5.4 Post-Event and Annual Review (p.7) Attachment 4: Cold Weather Equipment Inventory (p.19) Attachment 5: Pre-Winter Checklist (p.20) Attachment 7: Extreme Cold Weather Checklist (p.22)
	Hot Weather Annex	5.0 Hot Weather Preparation and Response Processes (p. 6) <ul style="list-style-type: none"> 5.1 Hot Weather Equipment Inventory List (p. 6) 5.4 Post-Event and Annual Review (p. 7) Attachment 4: Hot Weather Equipment Inventory (p. 19) Attachment 5: Pre-Summer Checklist (p. 20) Attachment 7: Extreme Hot Weather Checklist (p. 22)
(4)	Emergency Operations Plan	<ul style="list-style-type: none"> Section 4.0 Plan to Address Staffing During Emergency Response (p.7) Section 8.0 Business Continuity – Critical Failure Points – Personnel (Staffing) (p.10)
	Cold Weather Annex	<ul style="list-style-type: none"> 5.6 Additional Staffing Considerations for Weather Events (p.7) Section 6.0 Business Continuity – Critical Failure Points – Personnel (Staffing) (p.7) Attachment 6: Pre-Event Checklist (p.21)
	Hot Weather Annex	<ul style="list-style-type: none"> 5.6 Additional Staffing Considerations for Weather Events (p. 7) Section 6.0 Business Continuity – Critical Failure Points – Personnel (Staffing) (p. 7) Attachment 6: Pre-Event Checklist (p. 21)
	Hurricane Annex	<ul style="list-style-type: none"> 7.1 Re-entry Procedure (p. 13)
(5)	Pandemic and Epidemic Annex	Section 5.0 Essential Roles and Personnel (p. 5)
	Emergency Operations Plan	<ul style="list-style-type: none"> Section 5.0 Identification of Weather-Related Hazards (p.7) Section 6.0 Process for Activating the EOP (p.8)
(6)	Cold Weather Annex, Hot Weather Annex, Cyber and Physical Security Incident Annex,	<ul style="list-style-type: none"> Cold Weather Annex Hot Weather Annex

Requirement	Addressed in document	Where it is addressed in the document
	Hurricane Annex, Pandemic and Epidemic Annex	<ul style="list-style-type: none"> • Cyber and Physical Security Incident Annex • Hurricane Annex • Pandemic and Epidemic Annex
(e) Annexes to be included in the emergency operations plan		
(1)(A thru I)	Emergency Operations Plan	Section 1.0 Approval and Implementation (p.3) <ul style="list-style-type: none"> • 1.1 Introduction • 1.2 Applicability • 1.3 Statements of §25.53 Non-Applicability
(2)(A)(i)	Cold Weather Annex	Entire document
	Hot Weather Annex	Entire document
	Hurricane Annex	Entire document
(2)(A)(ii)	Cold Weather Annex	Section 1.0 Approval and Implementation <ul style="list-style-type: none"> • 1.1 Introduction (p. 3)
	Hot Weather Annex	Section 1.0 Approval and Implementation <ul style="list-style-type: none"> • 1.1 Introduction (p. 3)
	Emergency Operations Plan	1.3 Statements of §25.53 Non-Applicability
(2)(A)(iii)	Cold Weather Annex	<ul style="list-style-type: none"> • 5.4 Post-Event and Annual Review (p.7) • Attachment 5: Pre-Winter Checklist (p.20) • Attachment 7: Extreme Cold Weather Checklist (p.22)
	Hot Weather Annex	<ul style="list-style-type: none"> • 5.4 Post-Event and Annual Review (p. 7) • Attachment 5: Pre-Summer Checklist (p. 20) • Attachment 7: Extreme Hot Weather Checklist (p. 22)
(2)(B)	Emergency Operations Plan	Section 1.0 Approval and Implementation (p. 3) <ul style="list-style-type: none"> • 1.3 Statements of §25.53 Non-Applicability
	Emergency Operations Plan	Section 1.0 Approval and Implementation (p. 3) <ul style="list-style-type: none"> • 1.3 Statements of §25.53 Non-Applicability
(2)(C)	Emergency Operations Plan	Section 10.0 Restoration of Service (p.12) <ul style="list-style-type: none"> • 10.1 Failure to Start or Tipping Off-line (p. 12) • 10.2 Response Time and Backup Power (p.12)
(2)(D)	Pandemic and Epidemic Annex	Entire document
(2)(E)	Hurricane Annex	Section 6.0 Evacuation Routes (p. 11) <ul style="list-style-type: none"> • 6.1 Evacuation Notification (p. 12) • 6.2 Notification to Control Center of Evacuation Notification (p. 12) • 7.0 Facility Re-Entry Post Storm, 7.1 Re-entry Procedure (p. 13)
(2)(F)	Cyber and Physical Security Incident Annex	Entire document
(2)(G)	Cyber and Physical Security Incident Annex	Entire document
(3)(A thru E)	Emergency Operations Plan	Section 1.0 Approval and Implementation (p.3) <ul style="list-style-type: none"> • 1.1 Introduction

Requirement	Addressed in document	Where it is addressed in the document
		<ul style="list-style-type: none"> 1.2 Applicability 1.3 Statements of §25.53 Non-Applicability
(4)(A thru F)	Emergency Operations Plan	Section 1.0 Approval and Implementation (p.3) <ul style="list-style-type: none"> 1.1 Introduction 1.2 Applicability 1.3 Statements of §25.53 Non-Applicability

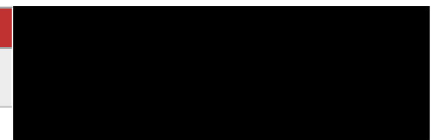
4.0 RECORD OF DISTRIBUTION AND TRAINING

This table presents information, as required, of the persons in the entity's organization receiving access to and training on the EOP, as appropriate.

Organization Name	Individual Name	Title	Date(s) of Distribution, Access, or Training on EOP
174 Power Global	Mark Behm	Compliance Manager	2022.04.15
174 Power Global	Gerry Rodriguez	Sr. Asset Manager	2022.04.15
Total Energies	Nicolas Felix	Asset Manager	2022.04.15

5.0 Emergency Contacts

Type of Contact	Individual Name	Title
Primary	Mark Behm	Compliance Manager

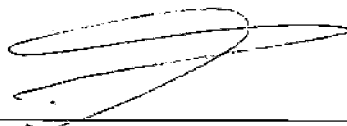


STATE OF CALIFORNIA §
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COUNTY OF ORANGE §

Affidavit of Naïm Amarsy

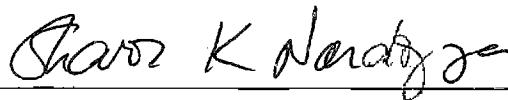
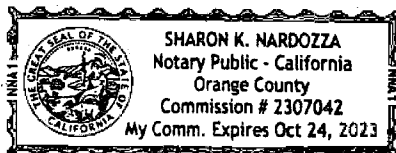
Before me, the undersigned authority, on this day personally appeared Naïm Amarsy, who, having been placed under oath by me, did depose as follows:

1. My name is Naïm Amarsy. I am over the age of 18 and fully competent to make this affidavit. I am the Co-JV Manager of Hanwha Total Solar II, LLC, the sole member of Rayos del Sol Solar Project, LLC ("Nebula Solar & Vancourt Solar"), and I am a member of Rayos del Sol Solar Project's Senior Leadership Team.
2. All relevant operating personnel are familiar with and have received training on the applicable contents and execution of the EOP, and such personnel are instructed to follow the applicable portions of the EOP except to the extent deviations are appropriate as a result of specific circumstances during the course of an emergency.
3. The EOP has been reviewed and approved by the appropriate executives.
4. The EOP or an appropriate summary will be distributed to local jurisdictions as needed.
5. Drills will be conducted in accordance with 16 TAC §25.53 on or before October 31, 2022.
6. The PGC maintains a business continuity plan that addresses returning to normal operations after disruptions caused by an incident.
7. Emergency management personnel who are designated to interact with local, state, and federal emergency management officials during emergency events have or will have received the latest IS-100, IS-200, IS-700, and IS-800 National Incident Management System training by May 31, 2022.



Naïm Amarsy

Sworn and subscribed before me, a notary public, in and for the State of California this 10 day of April, 2022.



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1.0 APPROVAL AND IMPLEMENTATION SECTION

A. Introduction and Applicability

1.1 Introduction

This *Emergency Operations Plan* describes the policies and processes for Rayos del Sol Solar Project, LLC (“**Rayos**”, a Power Generation Company (PGC) registered with the Public Utilities Commission of Texas (PUCT), to follow during emergency operations in accordance with the requirements of Chapter 25, Subchapter C, §25.53, of the PUCT Electric Substantive Rules.

This EOP addresses the requirements in *(d) Information to be included in the emergency operations plan*. **Within this and all other EOP documents, the use of “EOP” refers to the entire suite of documents that address the PUCT requirements, which includes relevant Annexes, as listed in the Resources and Related References section.**

Any questions regarding the EOP should be directed to the Compliance Manager.

1.2 Applicability

This EOP, including all attachments and annexes, applies to and will be used by Rayos address common operational functions that are relevant across emergency types; the annexes address specific types of emergencies. Nebula Solar Facility and the Vancourt Solar Facility are the Generating facilities listed with the PUCT for Rayos (PGC220002).

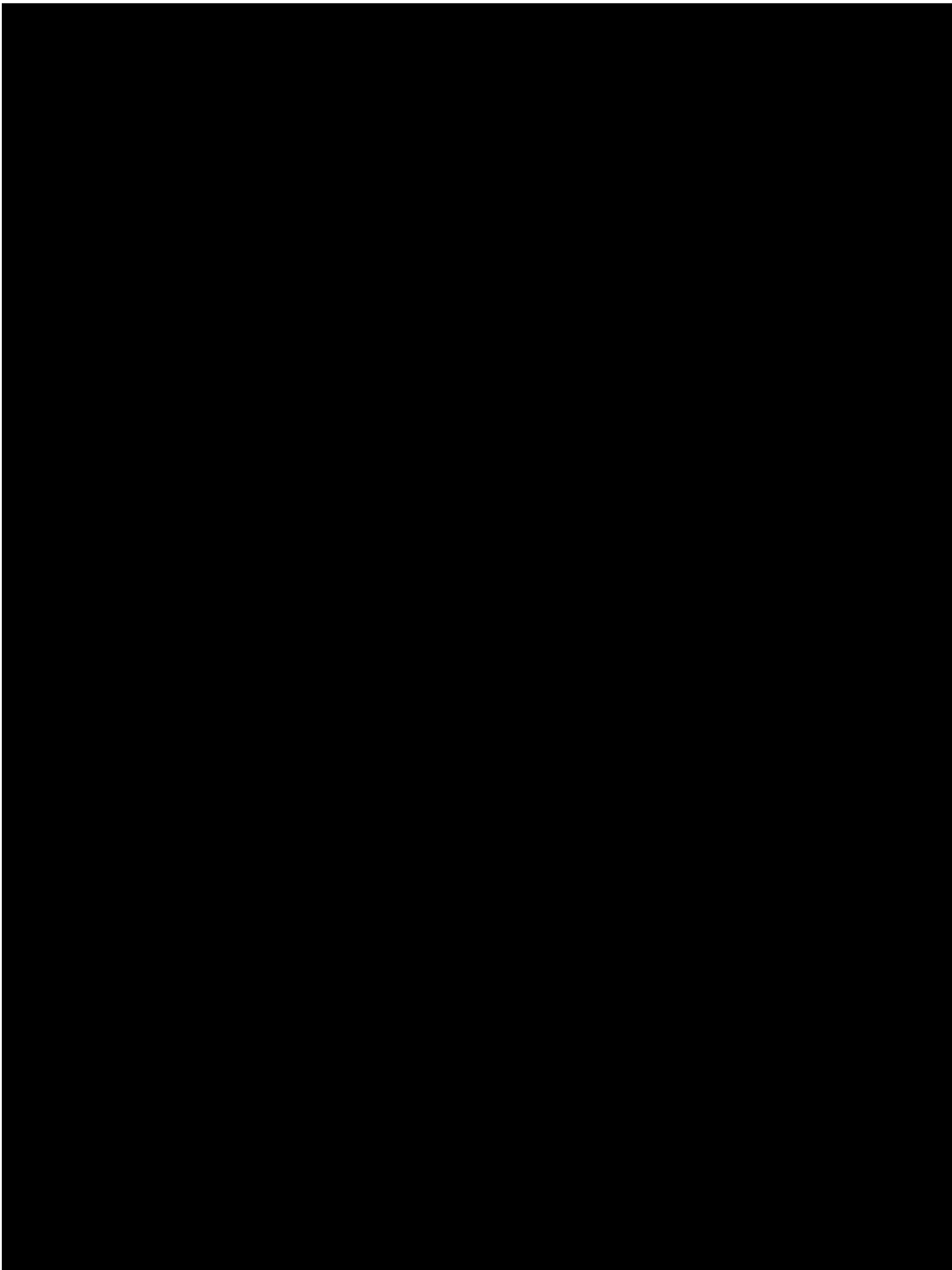
1.3 Statements of §25.53 Non-Applicability

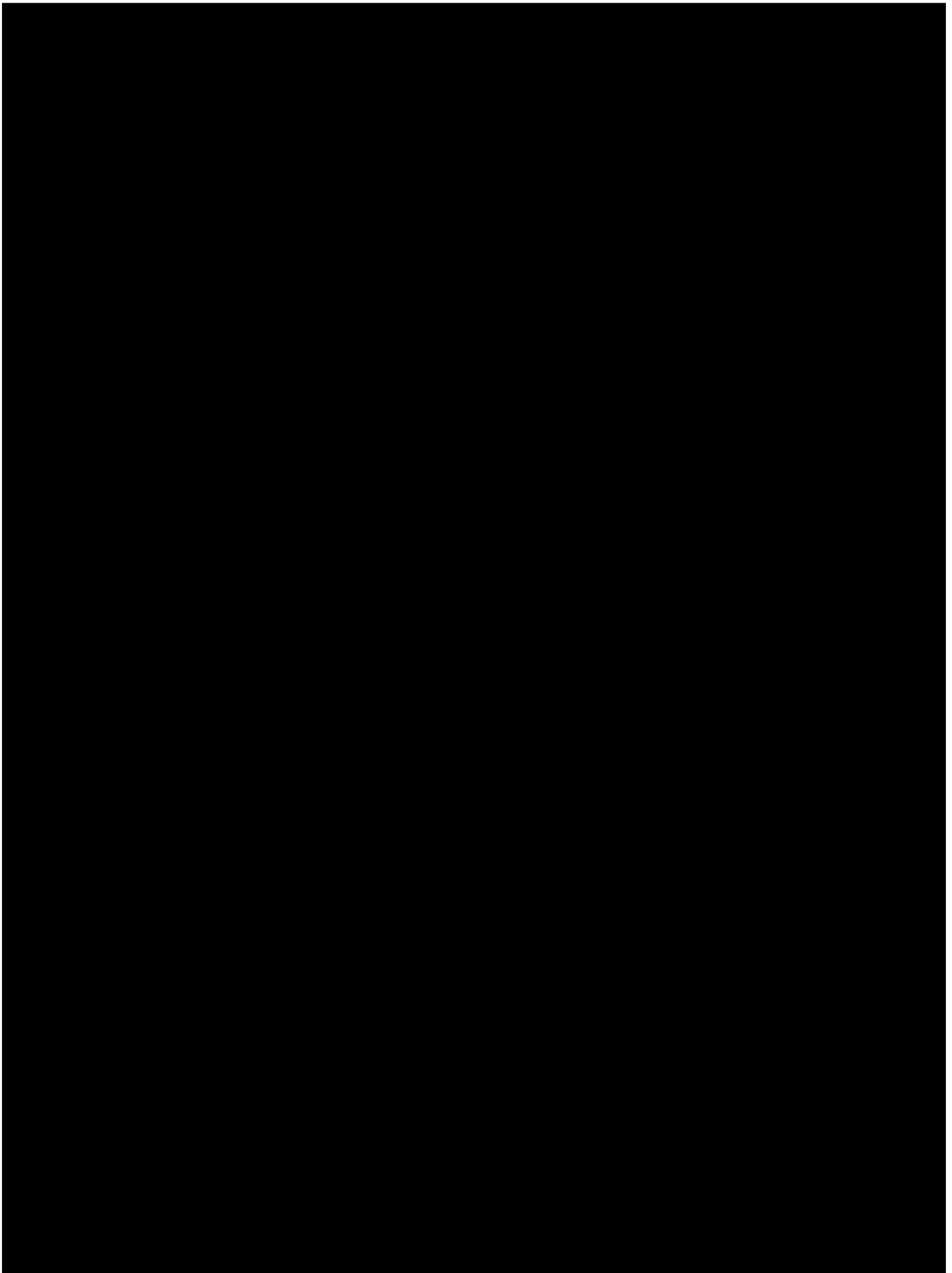
Section	Statement of Non-Applicability
(e)(2)(A)(ii) Adequacy and operability of fuel switching equipment	Rayos does not have the capability to perform fuel switching and has no installed equipment to do so.
(e)(2)(B) Water Shortage Annex	Rayos does not utilize water in the generation of electricity.

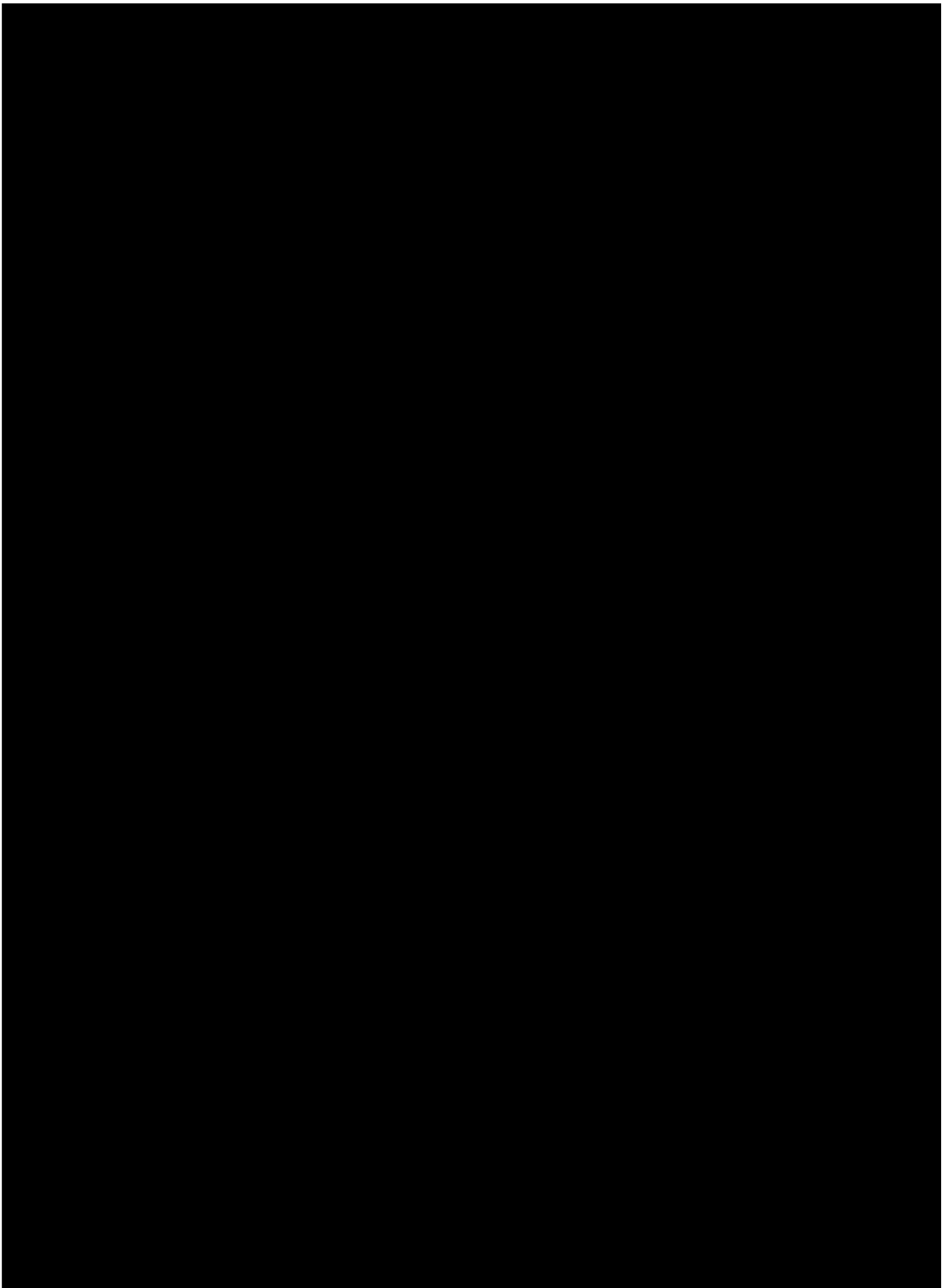
1.4 Generation Resource Information and Location

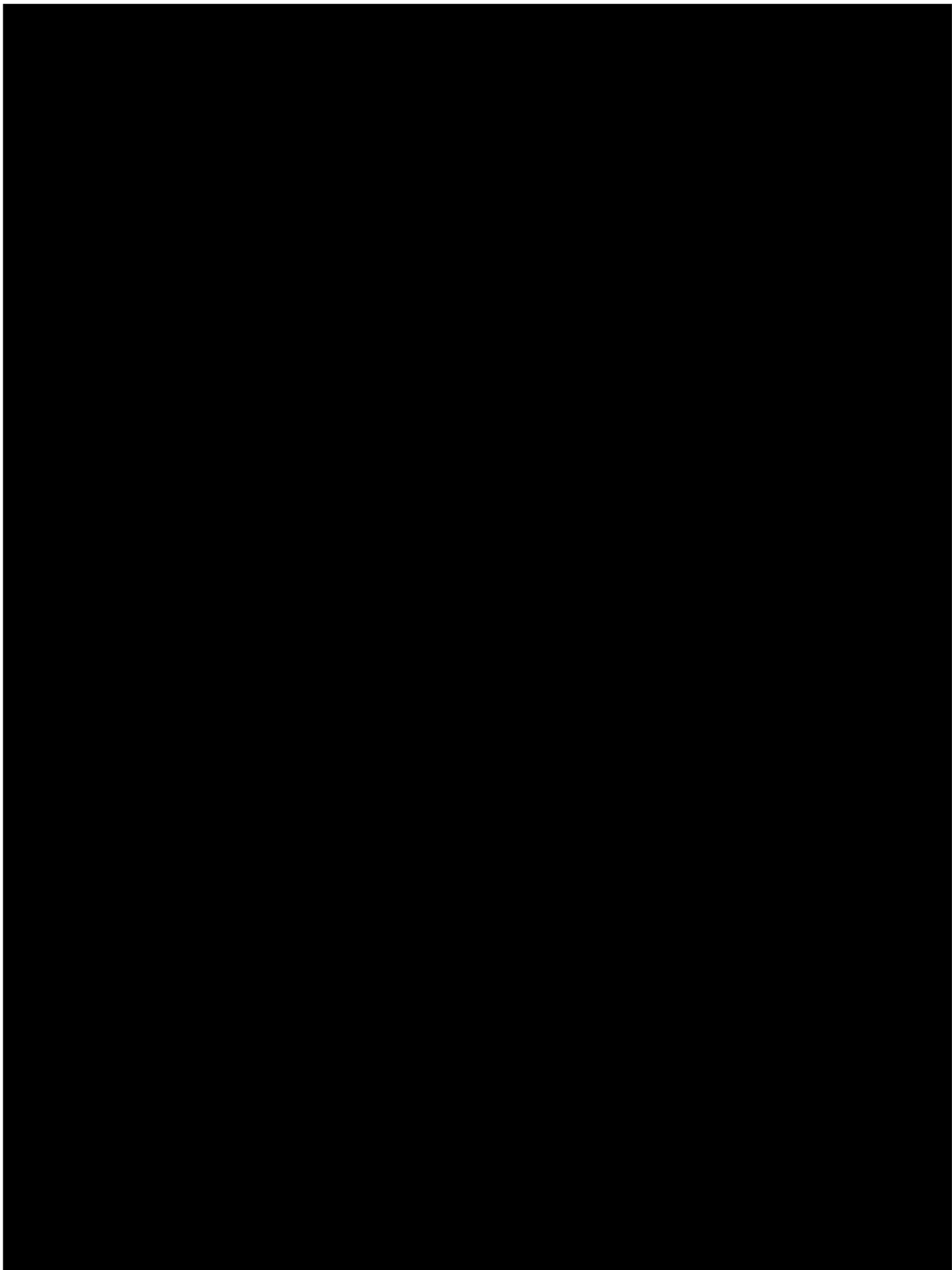
Rayos is located in Cameron County, Texas and is interconnected to American Electric Power’s (AEP) Luna 138kV Station. Northwind Solutions Group (USA) Inc. is the registered Generator Operator (GOP) and operations and maintenance (O&M) provider, both under Spark Power Corp. as the parent company.

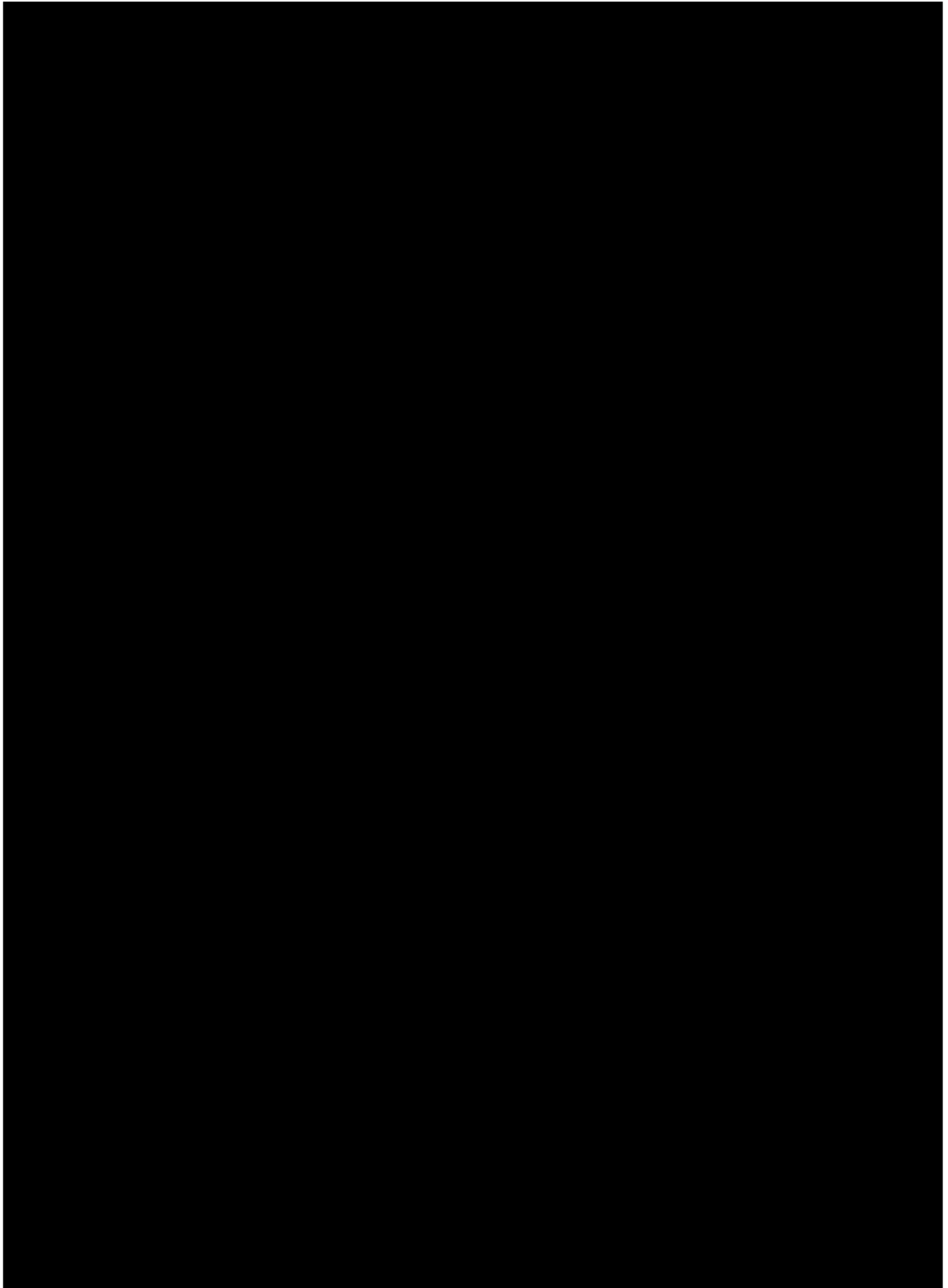
Facility	ERCOT Resource Name	Capacity (MW)	Commercial Operations Date (est.)
Nebula	NEBULA_UNIT1	135 MW	June 8, 2022
Vancourt	VANCOURT_UNIT1	45 MW	September 8, 2022

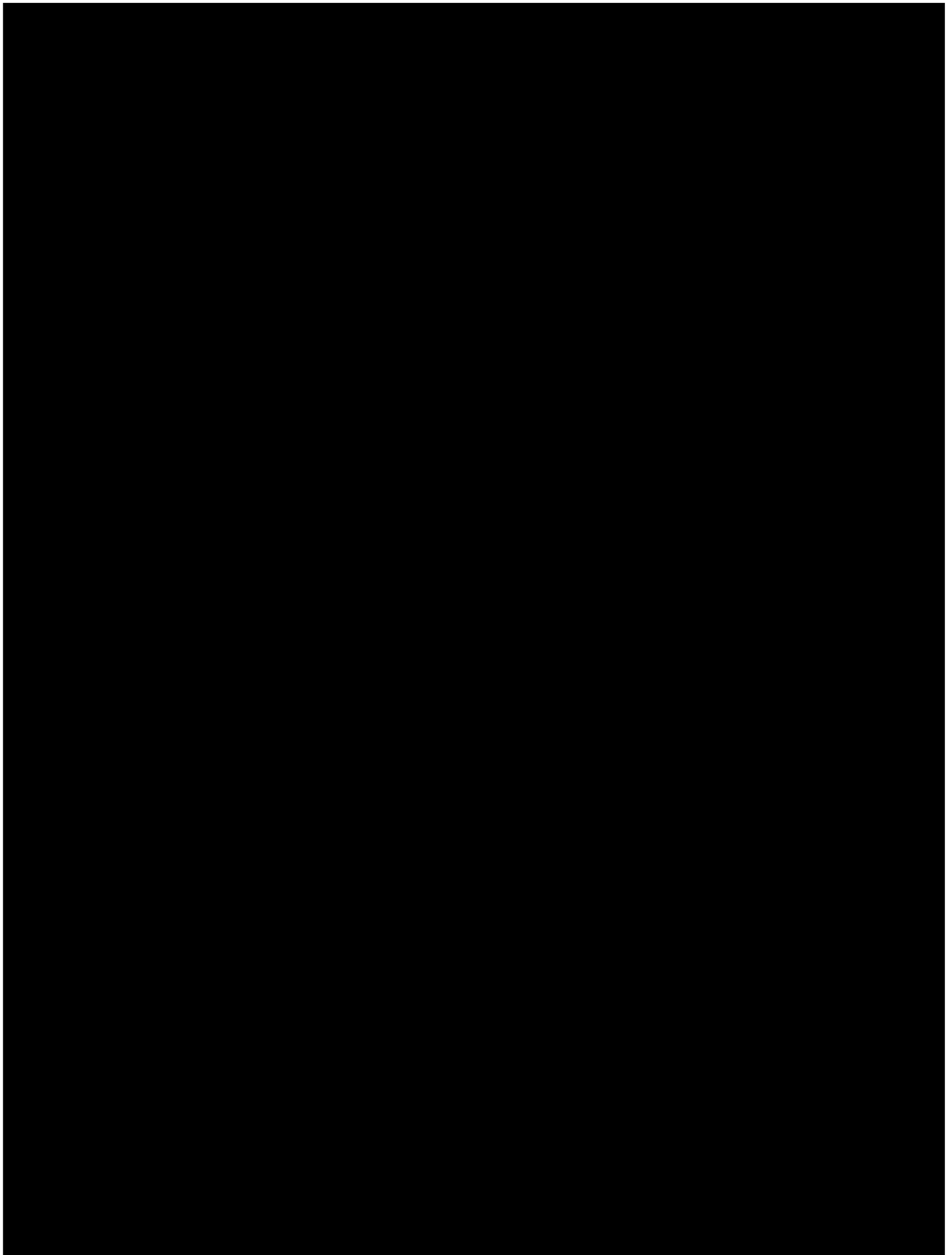


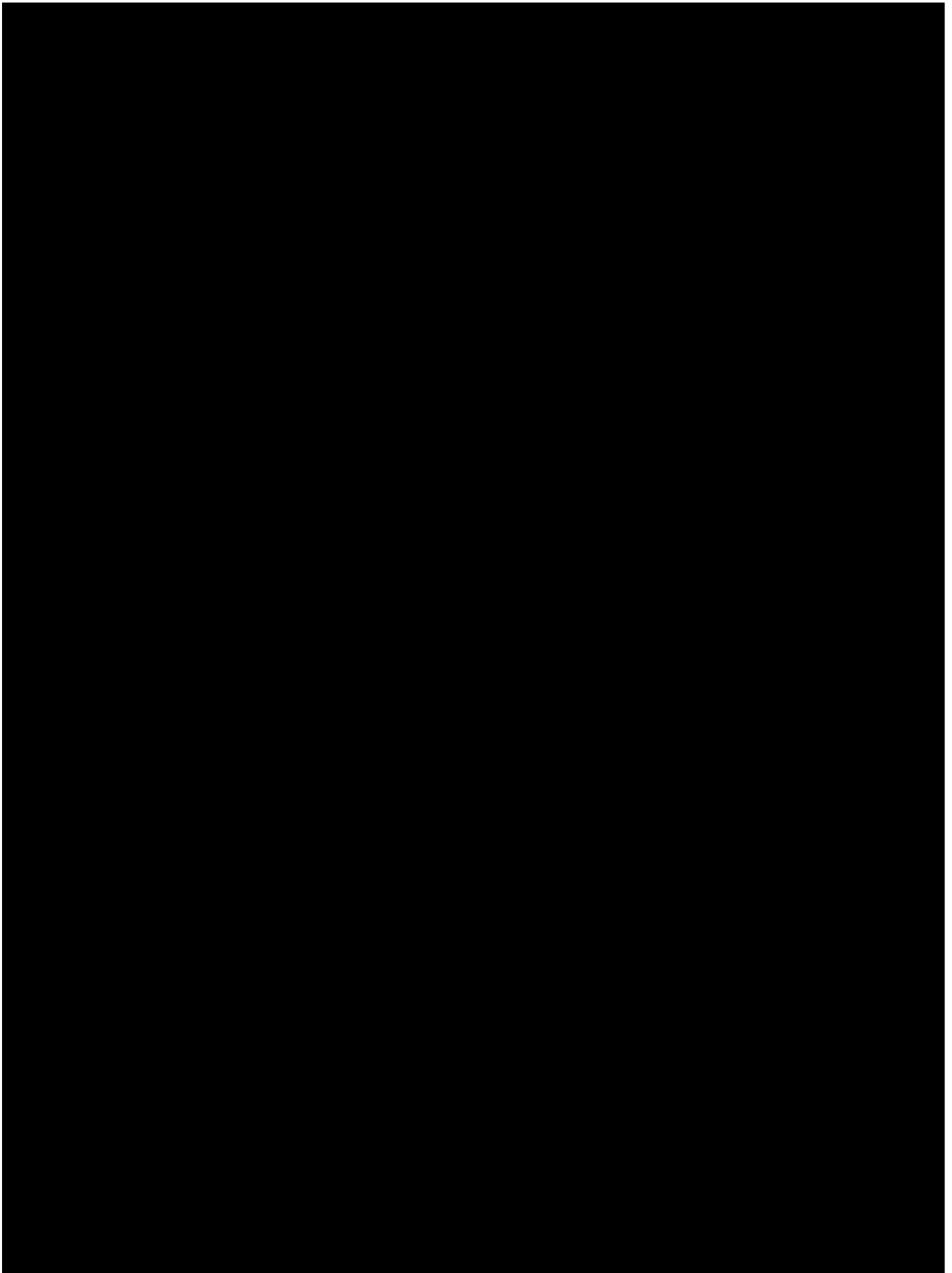


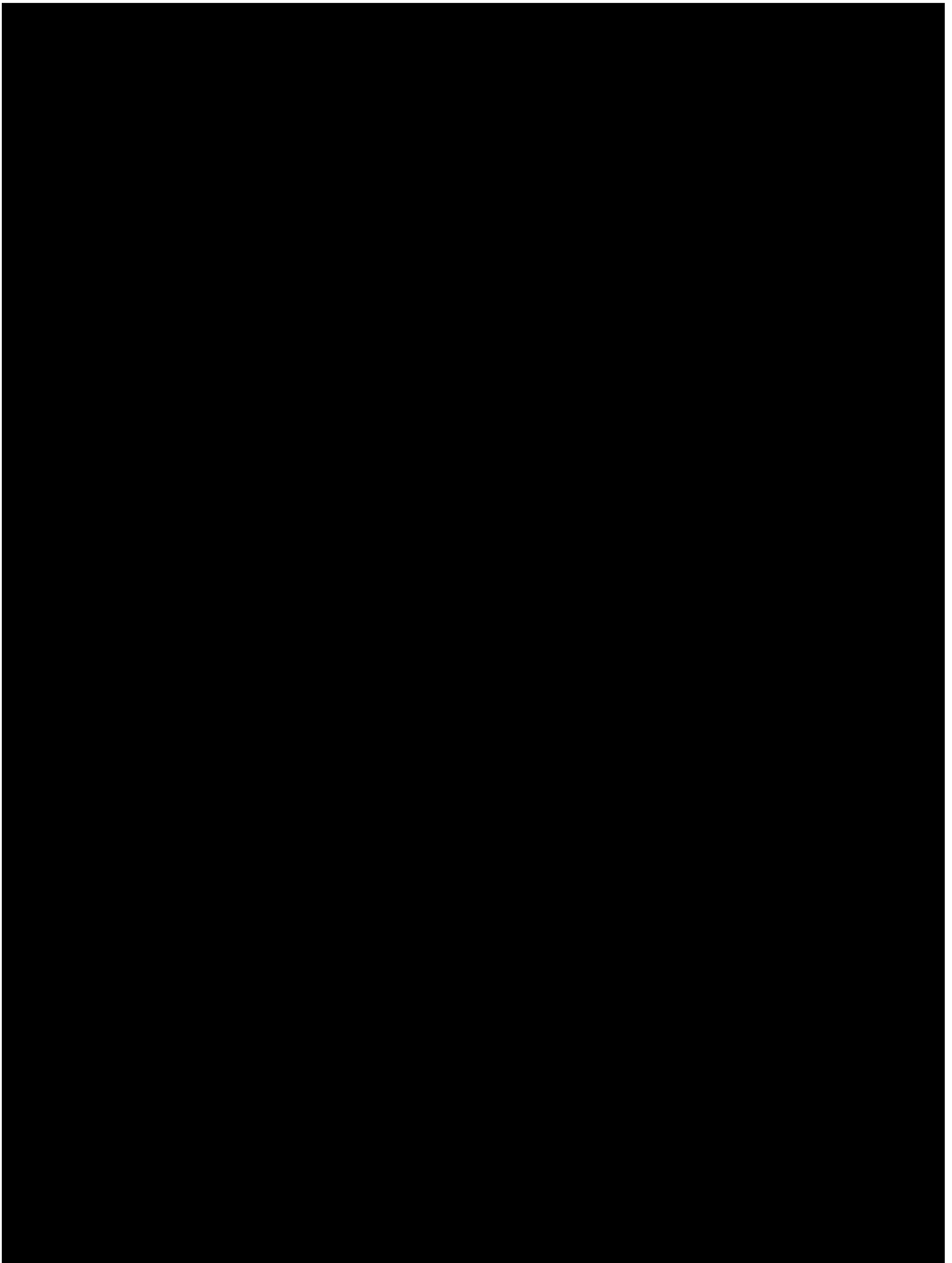


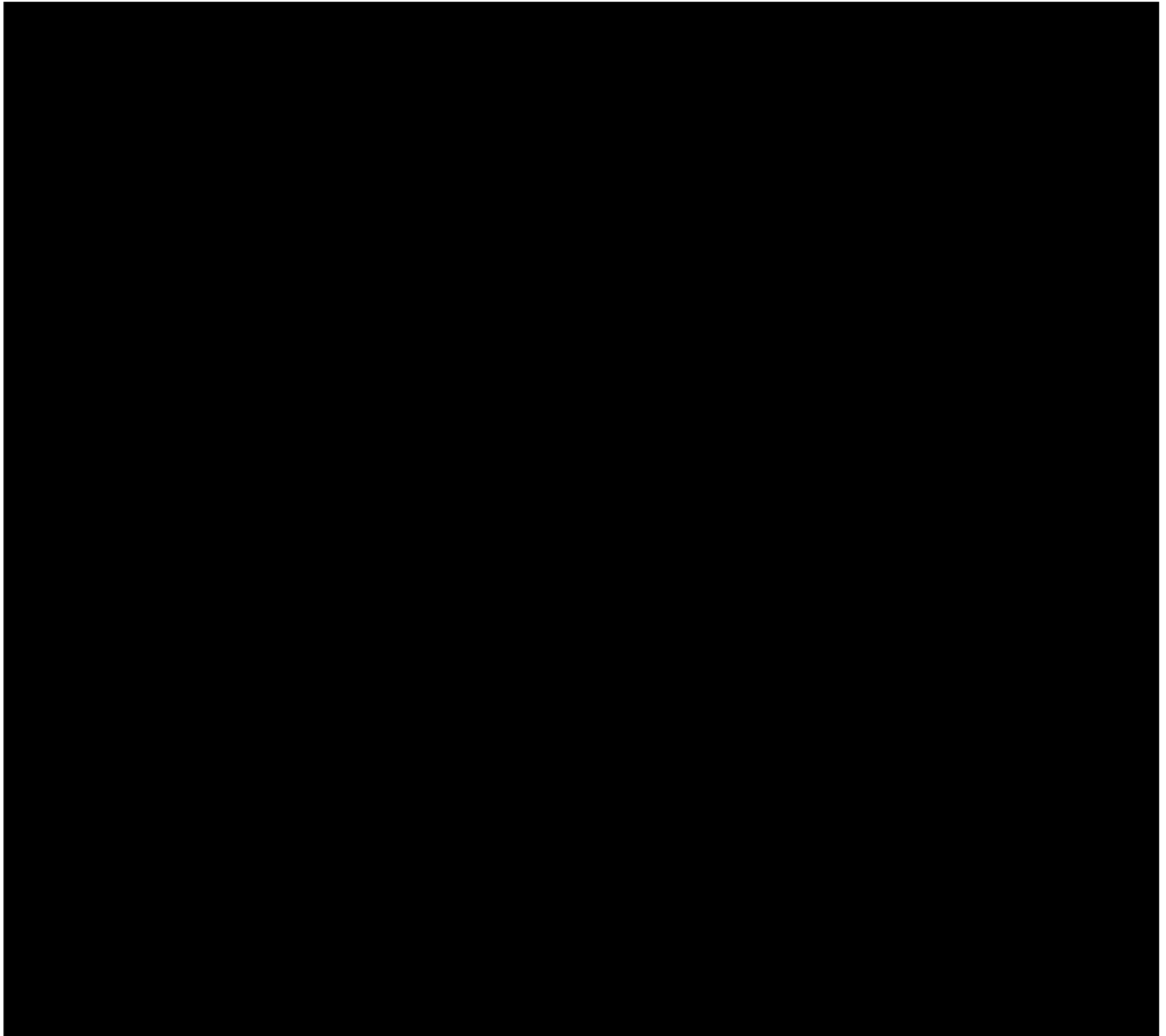












11.0 REQUIRED EMERGENCY OPERATIONS PLAN DRILL

11.1 Requirement for an Annual Drill and EOP Update

The PUCT requires that Rayos conduct or participate in one or more drills each calendar year to test its EOP. Because Rayos is in a hurricane evacuation zone (as defined by TDEM), at least one of the annual drills shall include a test of its *Hurricane Annex*.

Following an annual drill the entity must assess the effectiveness of its emergency response and revise its EOP, as needed. An entity that has activated its EOP in response to an emergency is not required, under this subsection, to conduct or participate in a drill in the calendar year in which the EOP was activated.

11.2 Notification to PUCT and TDEM District Coordinators Prior to Conducting Annual Drill

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At least 30 days prior to the date of at least one drill each calendar year the following notifications must be made of the 1) date, 2) time, and 3) location of the drill.

- Commission staff must be notified (using the method and form prescribed on the **commission's website**)
- Appropriate TDEM District Coordinators, by email or other written form.

11.3 Drill Requirements

11.3.1 The content of each drill will be based on current needs and will be determined by the Site Manager with input from the Compliance Manager, as needed.

11.3.1.1 The annual drill must include a documented evacuation of the O&M/Substation control building (if applicable).

11.3.2 A roster of drill attendees, the date the drill was conducted, and the location of the drill will be filed with this plan and retained in the Rayos document repository.

11.3.3 If the annual drill requirement is fulfilled by an actual event, all event materials must be produced and provide to the Compliance Manager. Evidence should include operating logs, work orders, voice recordings, or other relevant materials.

11.4 EOP Updates

11.4.1 Following the annual drill, the effectiveness of the drill and the EOP will be assessed and the EOP updated, as needed, based on feedback received and provided to the Compliance Manager by the Site Manager.

11.4.2 Any improvements to the EOP that are identified following an event or drill will be made and documented (via appropriate update to the version history of this plan) and filed with the Rayos EOP evidence.

12.0 ANNUAL TRAINING AND REPORTING REQUIREMENT

The PUCT requires that all relevant operating personnel be familiar with and have received training on the applicable contents and execution of the EOP, and such personnel are instructed to follow the applicable portions of the EOP except to the extent that deviations are appropriate as a result of specific circumstance during the course of the emergency.

All relevant operating personnel will receive training each calendar year. Contractors and visitors who will enter operating areas of the facility will be trained on facility alarms, mustering

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locations, and evacuation procedures before they enter the facility for the first time, and annually thereafter.

At the end of each calendar year, the Spark Power Site Manager will notify the Compliance Manager, in writing and per the format requirements, that all relevant operating personnel have completed training. The following format will be used to report completion of training:

1. Titles and names of persons in the organization receiving access to and training on the EOP; and
2. Dates of access to or training on the EOP, as appropriate.

13.0 FILING OF EMERGENCY CONTACT INFORMATION WITH THE PUCT

Rayos is required to submit and maintain emergency contact information with the PUCT. If the contact information changes, Rayos must provide the updated information to the Commission within 30 days by submitting an *Emergency Contact Information Update* form. See *Resources and Related References* section for Emergency Contact Annual Report and Form links.

14.0 REQUIRED ANNUAL PLAN UPDATE

The Filing Requirements in §25.53 required that information in this EOP and all supporting documents must be updated annually, and no later than March 15, for various circumstance, including, but not limited to the following:

- Changes were made in the previous calendar year that will materially affect how Rayos would respond in an emergency.
- An entity that in the previous calendar year did not make a change that materially impacts how Short would respond must also file with the PUCT.

15.0 REQUIRED REPORTING

15.1 Initial Submittal of Required EOP documents to PUCT at Registration as a PGC

The PUCT requires that PGC register 30 days before beginning operations in Texas. A PGC is required to submit their emergency operations plan (and all other required documents) at PGC registration and that version may be redacted. Rayos will make its unredacted EOP available in its entirety to commission staff on request at a location designated by commission staff.

15.2 Initial Submittal of Required EOP documents to ERCOT

If a PGC will operate in the ERCOT power region, the PUCT requires that at the time of the PGC registration and submittal of the EOP to the commission, the PGC must submit an unredacted version of its emergency operations plan (and all other required documents). This submittal must be made no later than 10 days after the commission approved the PGC registration.

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15.3 Requirement to update EOP Information no later than March 15 Annually

Rayos is required to continuously maintain its EOP and must annually updated information within the EOP no later than March 15.

15.3.1 If EOP changes were made in the previous calendar year that materially affects how Rayos would respond to an emergency, the following items must be completed:

15.3.1.1 File an executive summary with the commission;

15.3.1.2 File a complete, revised copy of the EOP with all confidential portions removed; and

15.3.1.3 Submit to ERCOT the revised unredacted EOP it its entirety.

15.3.2 If no EOP changes were made in the previous calendar year that materially affect how it would respond to an emergency, the following items must be completed:

15.3.2.1 A pleading that documents any changes to the list of emergency contacts, as required;

15.3.2.2 An attestation stating that no changes were made to the EOP that material affects how it would respond to an emergency; and

15.3.2.3 The required affidavit.

If commission staff determines that the entity's EOP or other documents do not contain sufficient information to determine whether the entity can provide adequate electric service through an emergency, Rayos will update the EOP and, if directed by commission staff, file its revised EOP or other documentation, or a portion thereof, with the commission and, for entities with operations in the ERCOT power region, with ERCOT.

15.4 Reporting During Activation of the State Operations Center by TDEM

Upon request by commission staff during an activation of the State Operations Center by TDEM, an affected entity must provide updates on the status of operations, outages, and restoration efforts. Updates must continue until all incident-related outages of customers able to take service are restored or unless otherwise notified by commission staff. After an emergency, commission staff may require an affected entity to provide an after action or lessons learned report and file it with the commission by a date specified by commission staff.

Rayos will comply with commission staff's requests during and following an activation of the State Operations Center by TDEM and provide commission staff with any requested information in accordance with 25.53(g).

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15.5 ERCOT Requirement for Annual Weatherization Declaration Submittals

Rayos is required to submit declarations for both summer and winter weatherization preparations, per the Nodal Protocols, Section 22 (Attachment K and Attachment O).

Summary Table of Annual Weatherization Declaration Filing Requirements	
What must be filed:	Filing due date:
Summer Declaration, Attachment K	No earlier than May 1 and no later than June 1
Winter Declaration, Attachment O	No earlier than November 1 and no later than December 1

16.0 RESOURCES AND RELATED DOCUMENTS

Rayos Hurricane Annex

Rayos Cyber and Physical Security Incident Annex

Rayos Pandemic and Epidemic Annex

Rayos Hot Weather Annex

Rayos Cold Weather Annex

ERCOT

Resource Entities webpage: <http://www.ercot.com/services/rq/re>

Current Protocols – Nodal: <http://www.ercot.com/mktrules/nprotocols/current>

- Section 3: Management Activities for the ERCOT System
- Section 22 Attachment K: Declaration of Completion of Generation Resource Summer Weatherization Preparations and Natural Gas Pipeline Coordination for Resource Entities with Natural Gas Generation Resources
- Section 22 Attachment O: Declaration of Completion of Generation Resource Winter Weatherization Preparations

PUCT

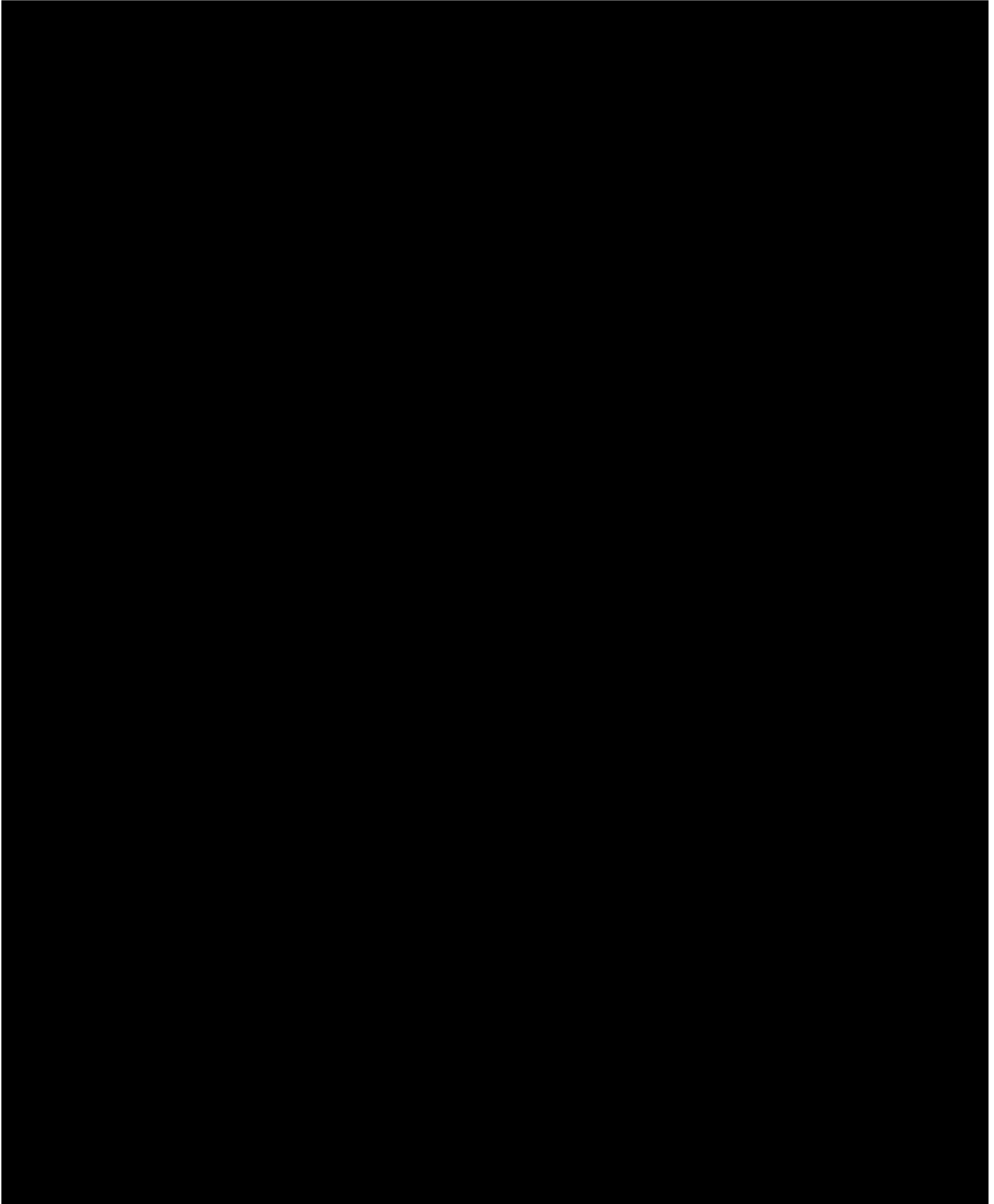
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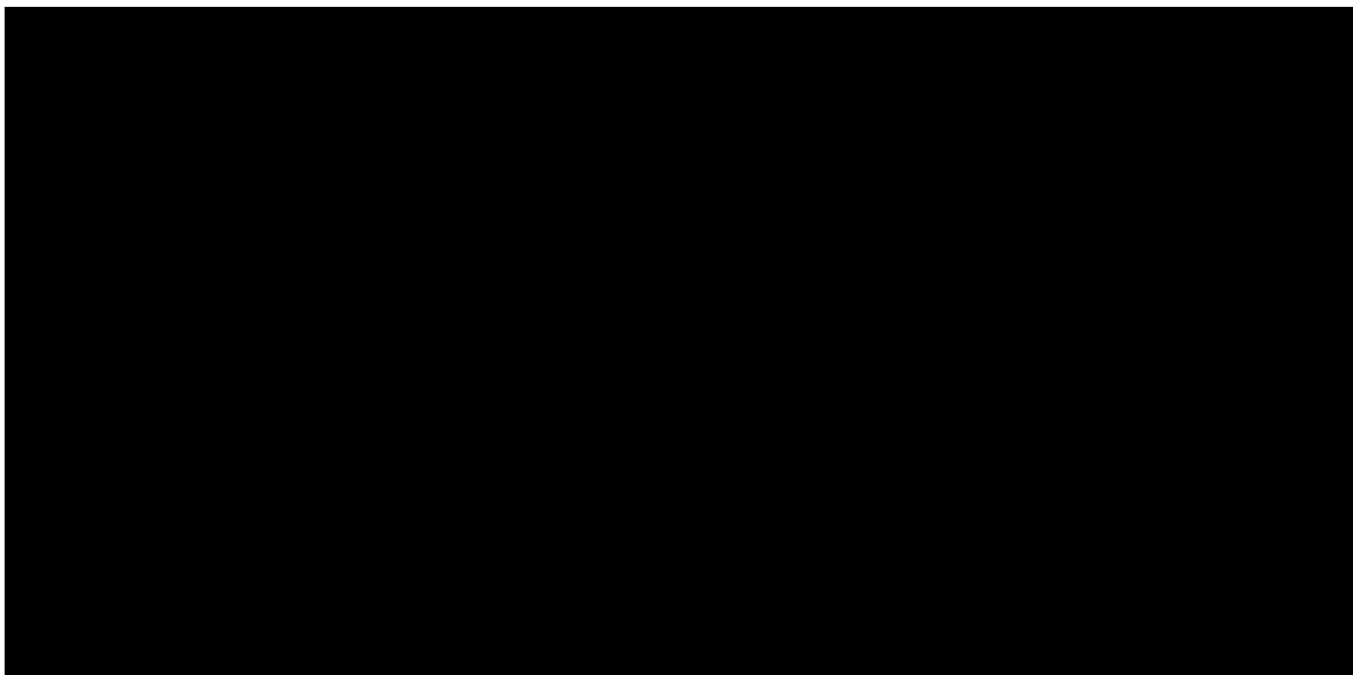
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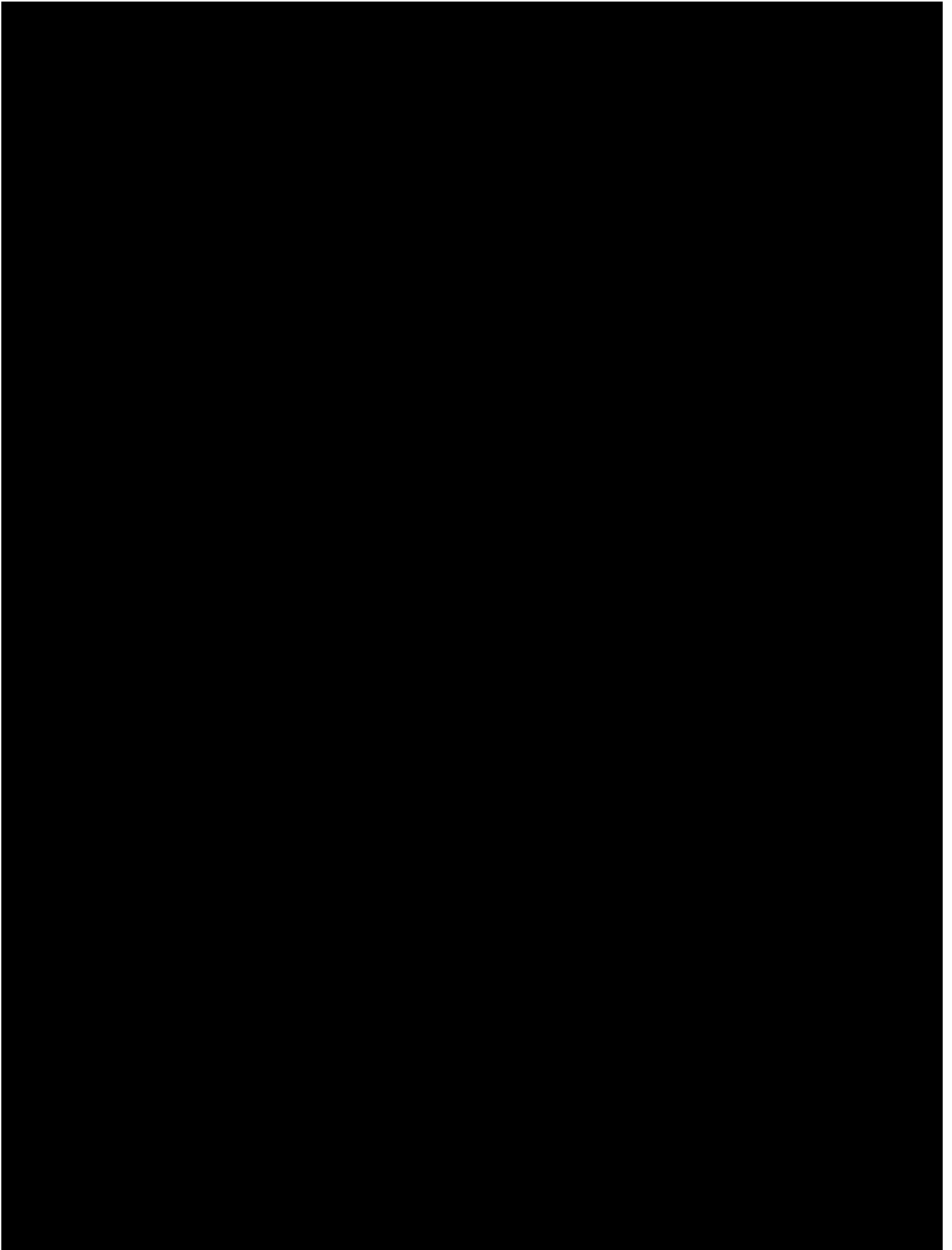
- Subchapter C, §25.53 - Electric Service Emergency Operations Plans

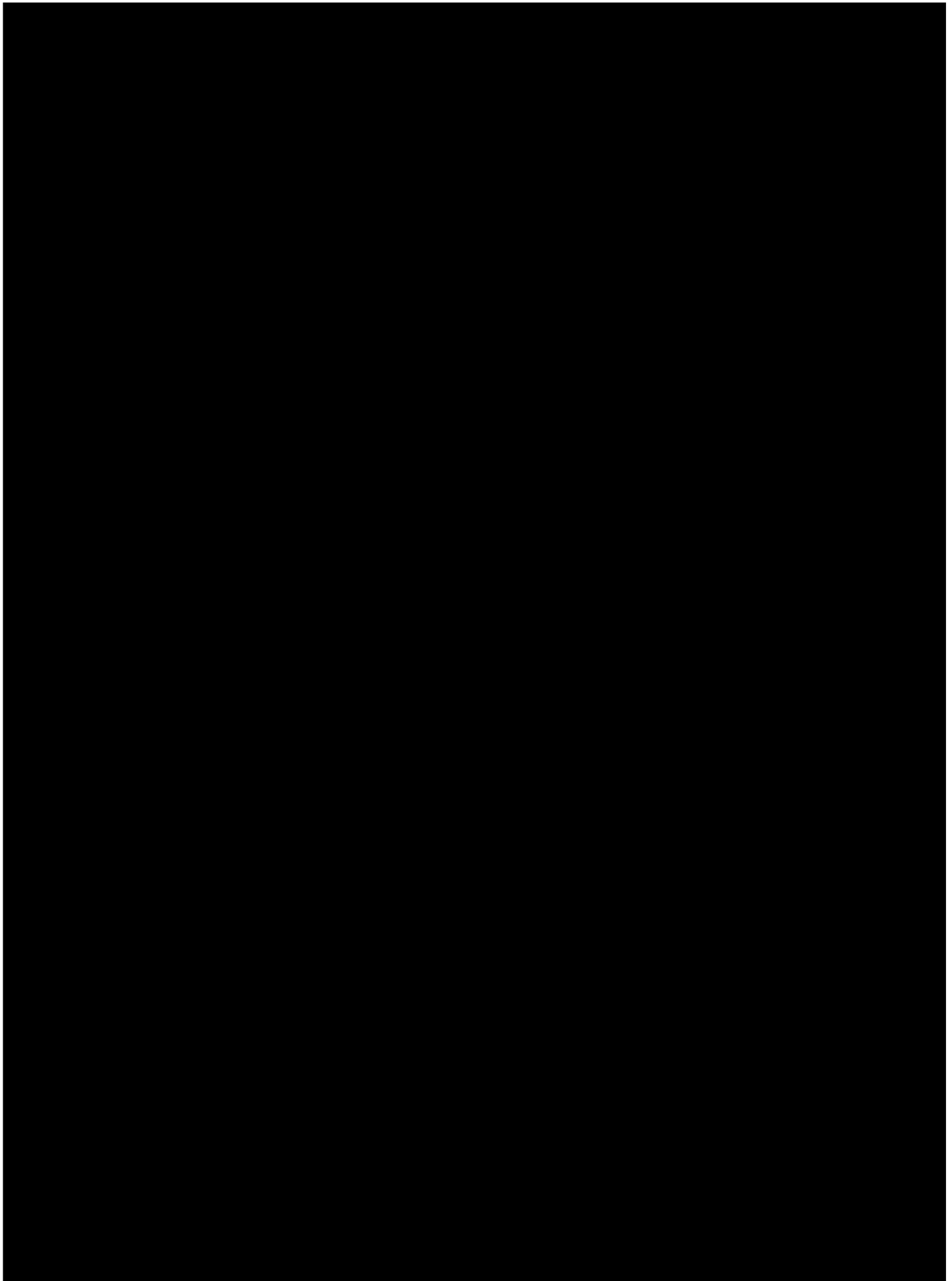
Rayos del Sol Solar Project, LLC – Emergency Operations Plan, Version #1.0

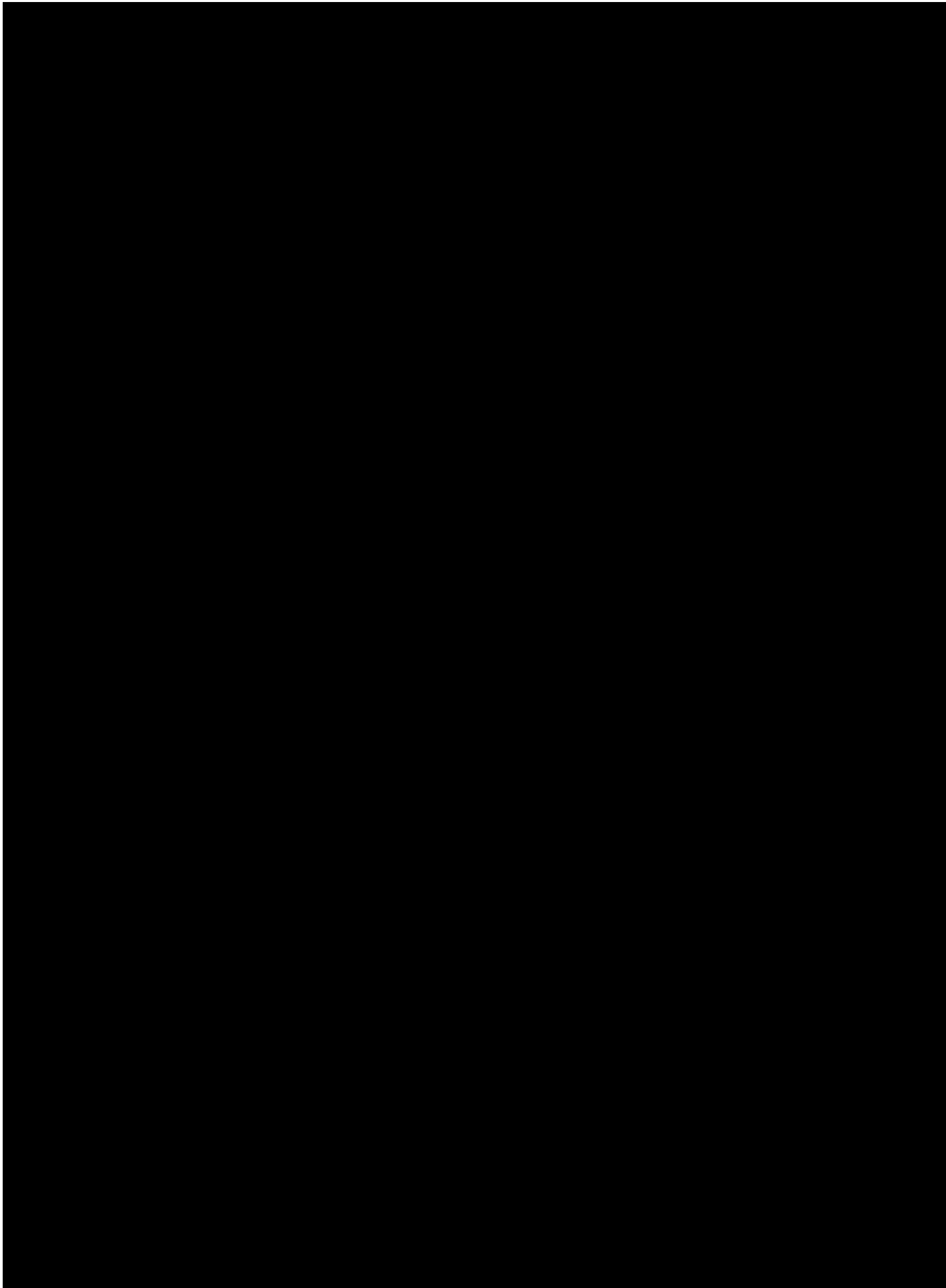
Emergency Contact Update Form (posted under Emergency Management section):
<https://www.puc.texas.gov/industry/electric/forms/>

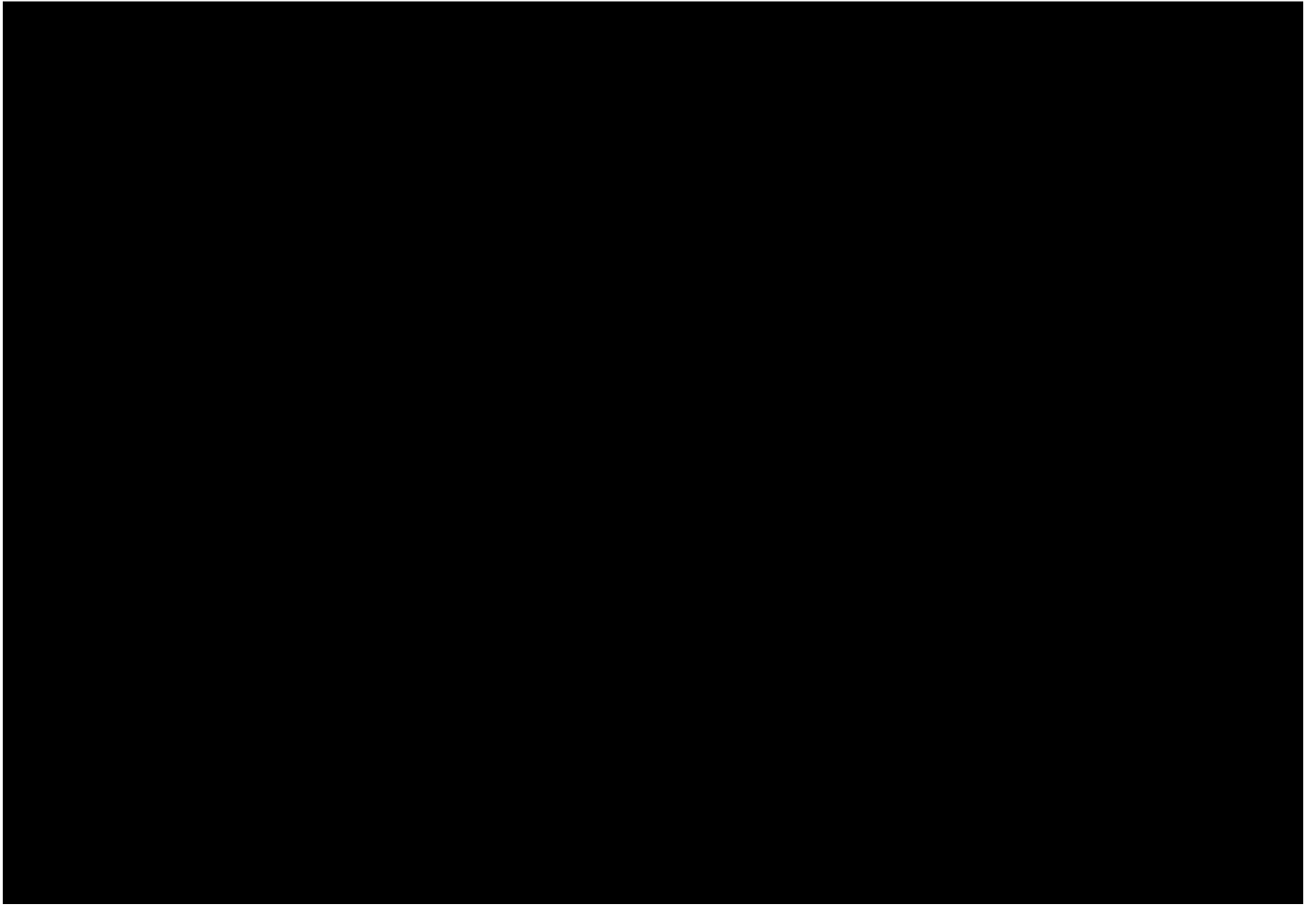


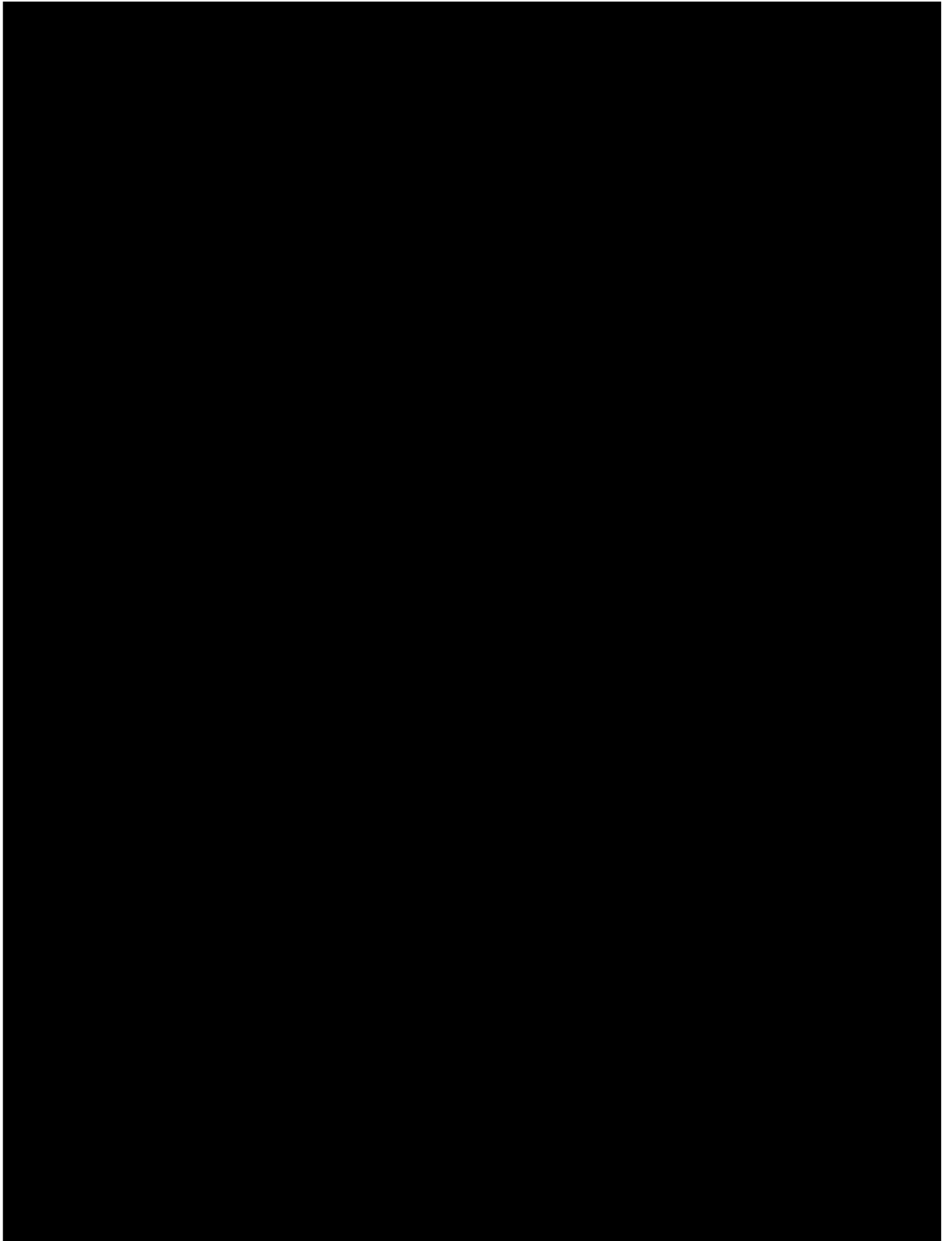


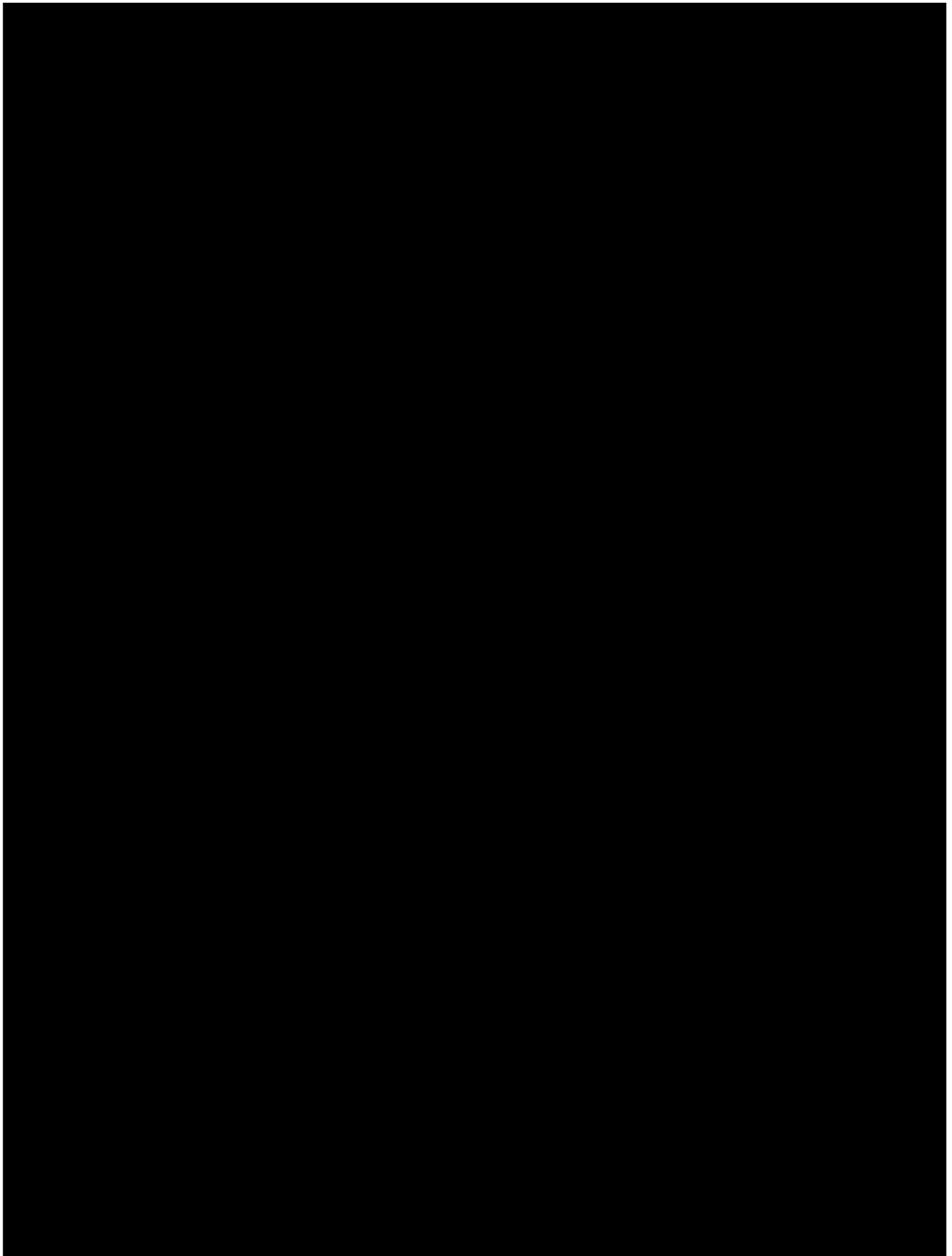


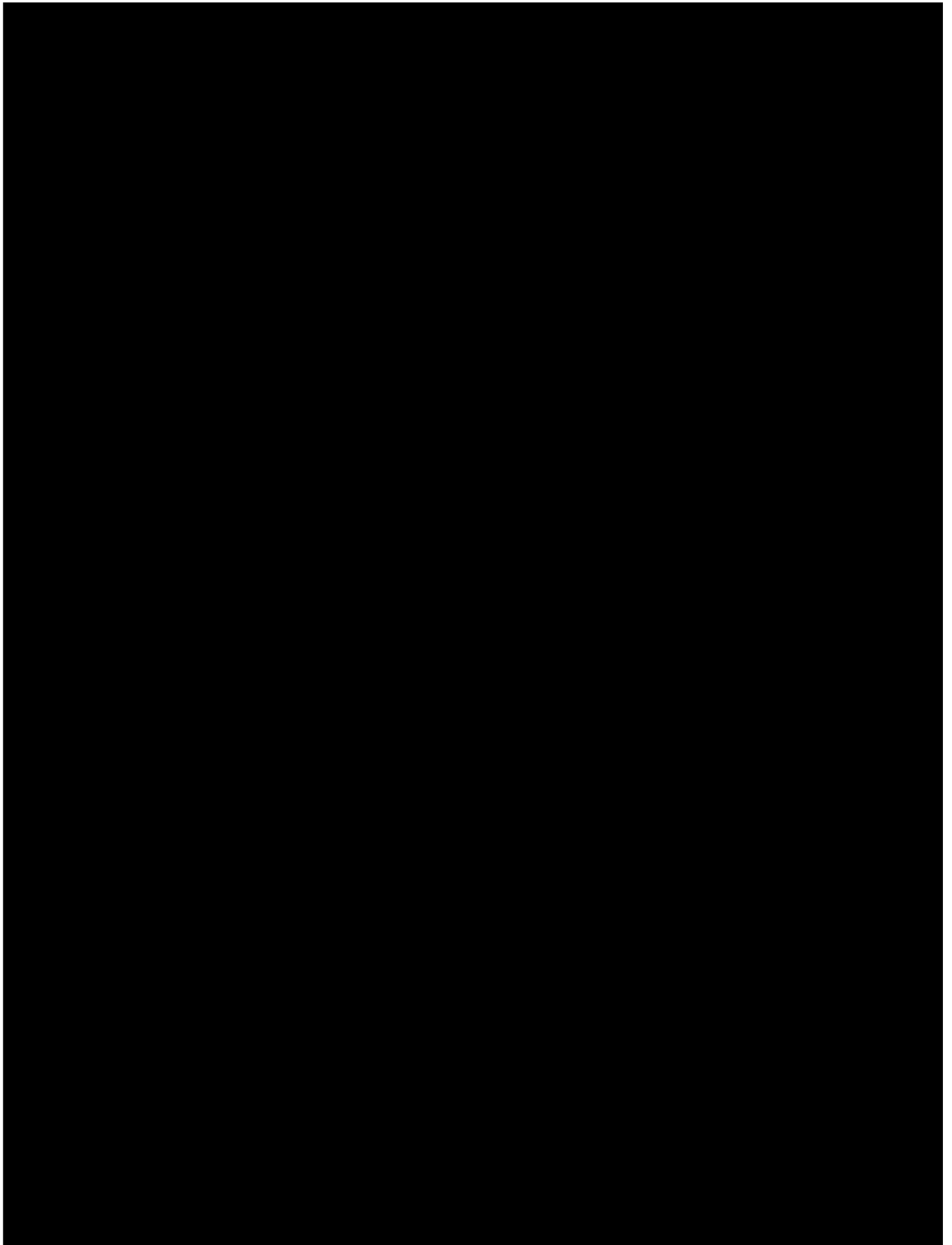


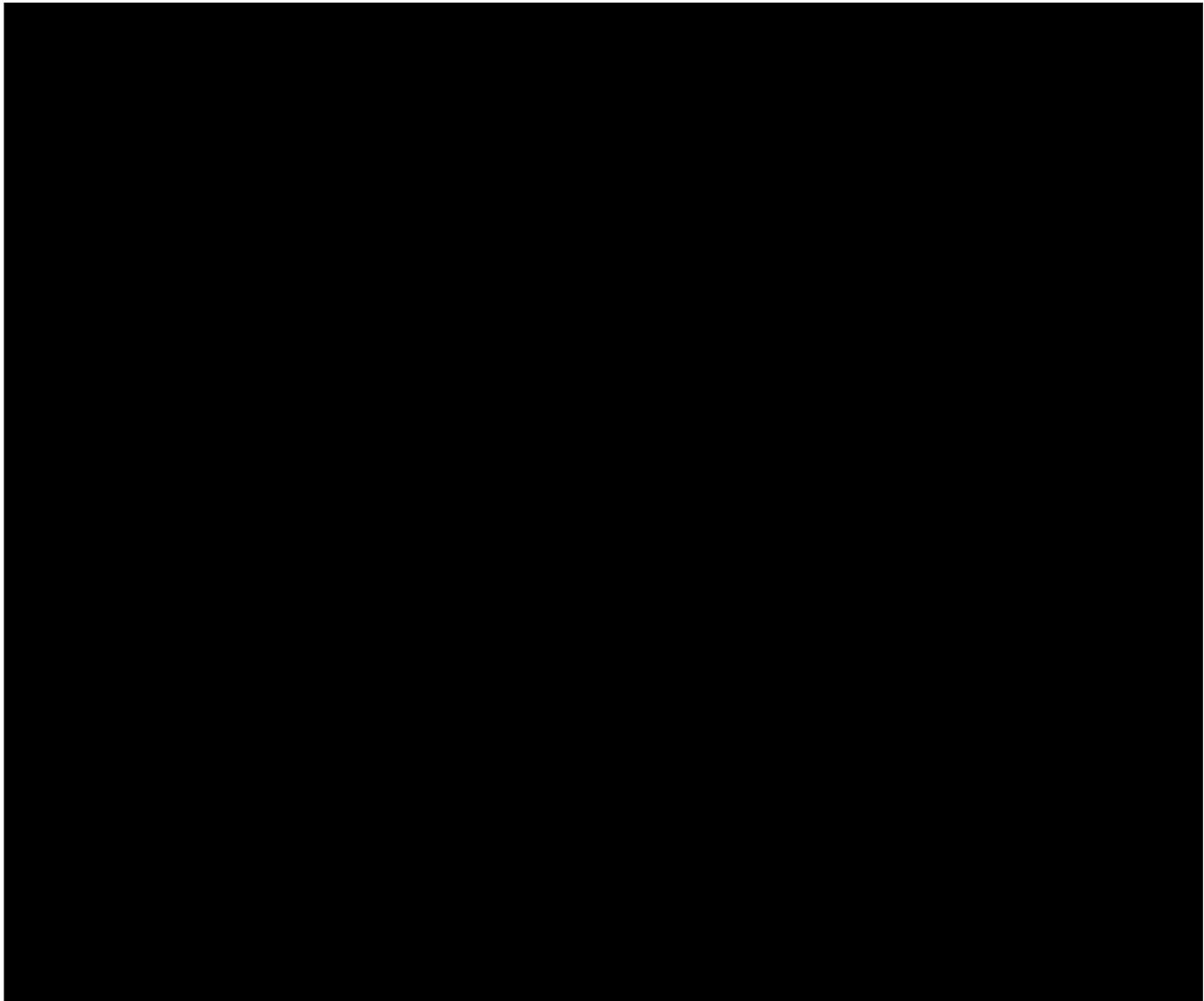


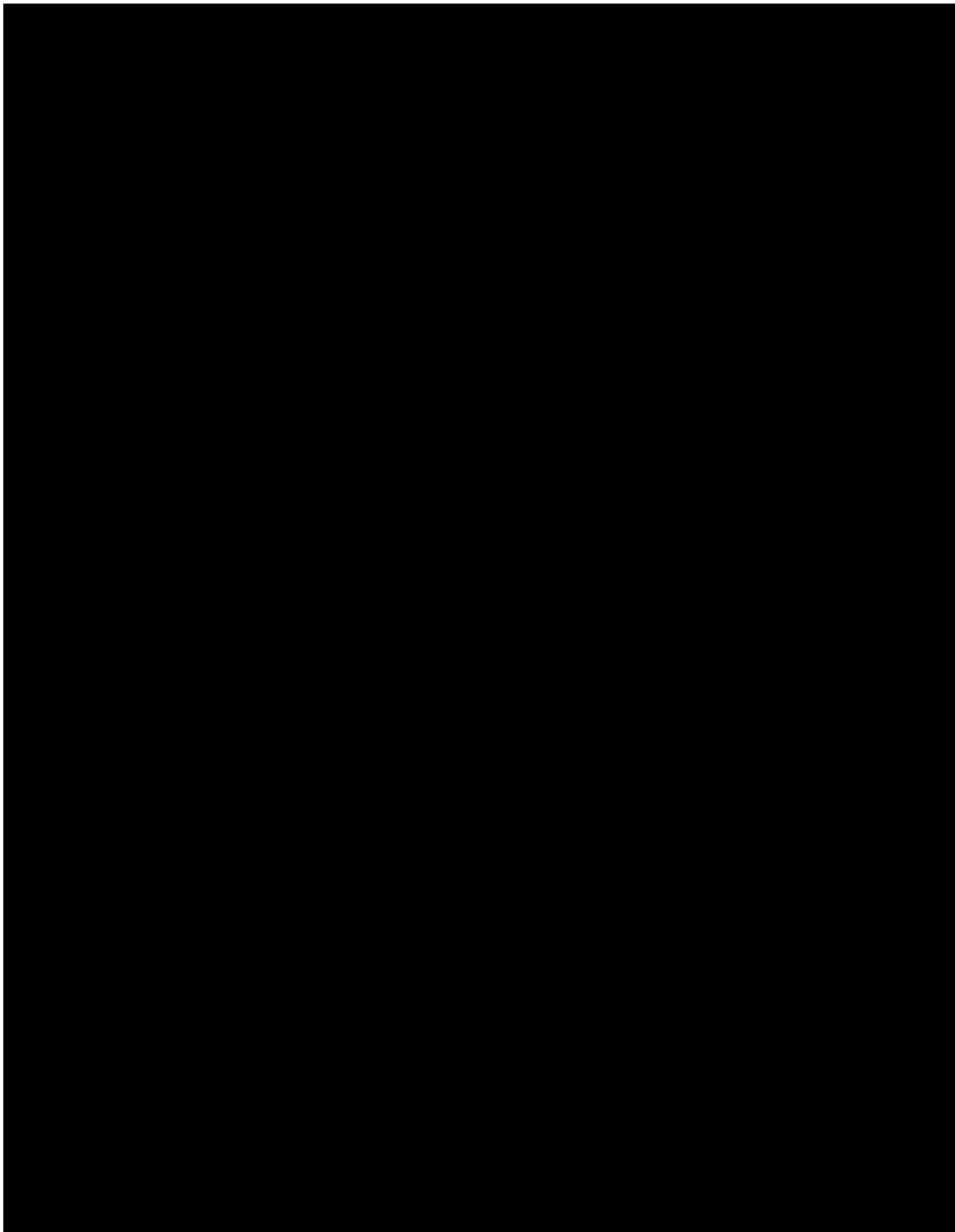


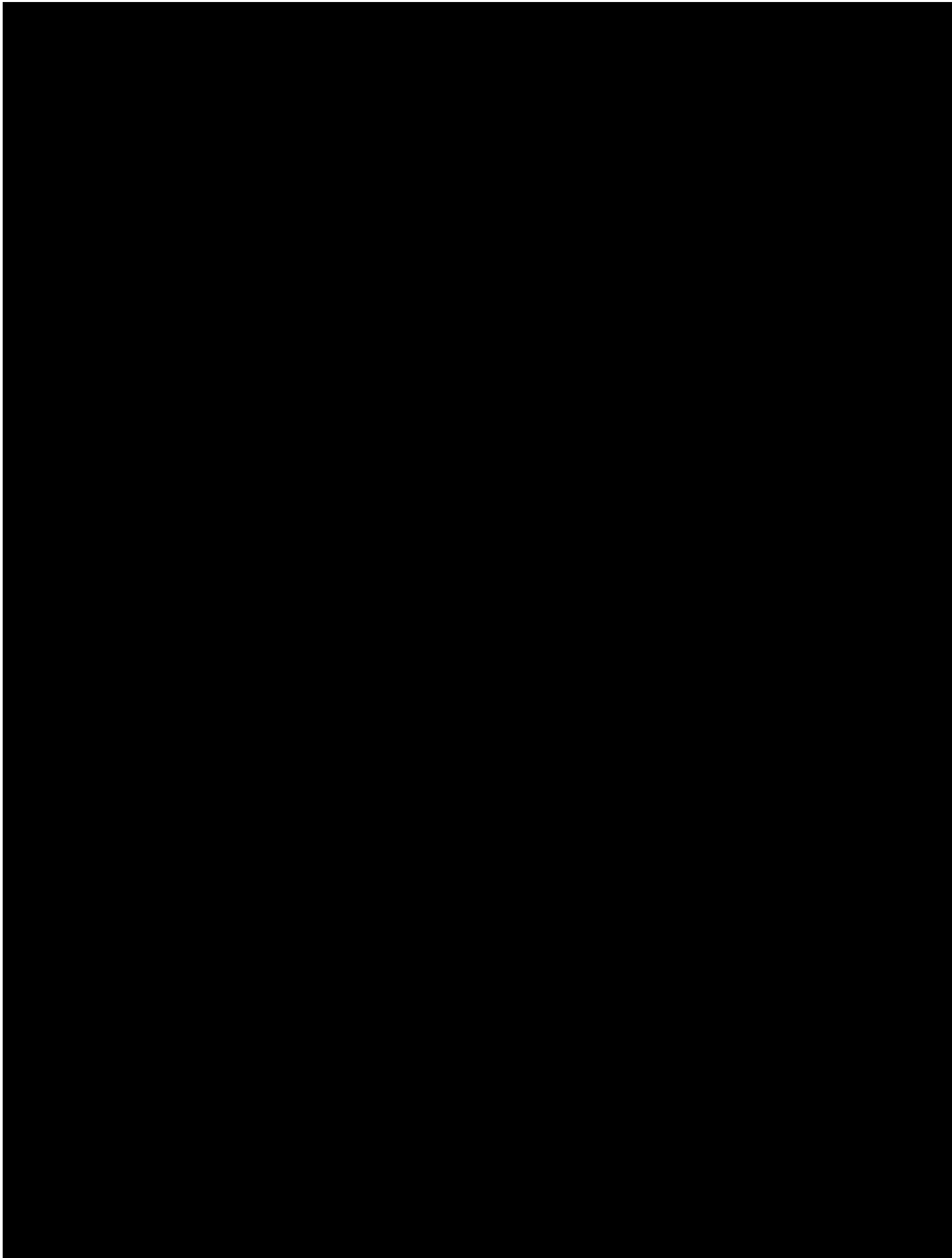


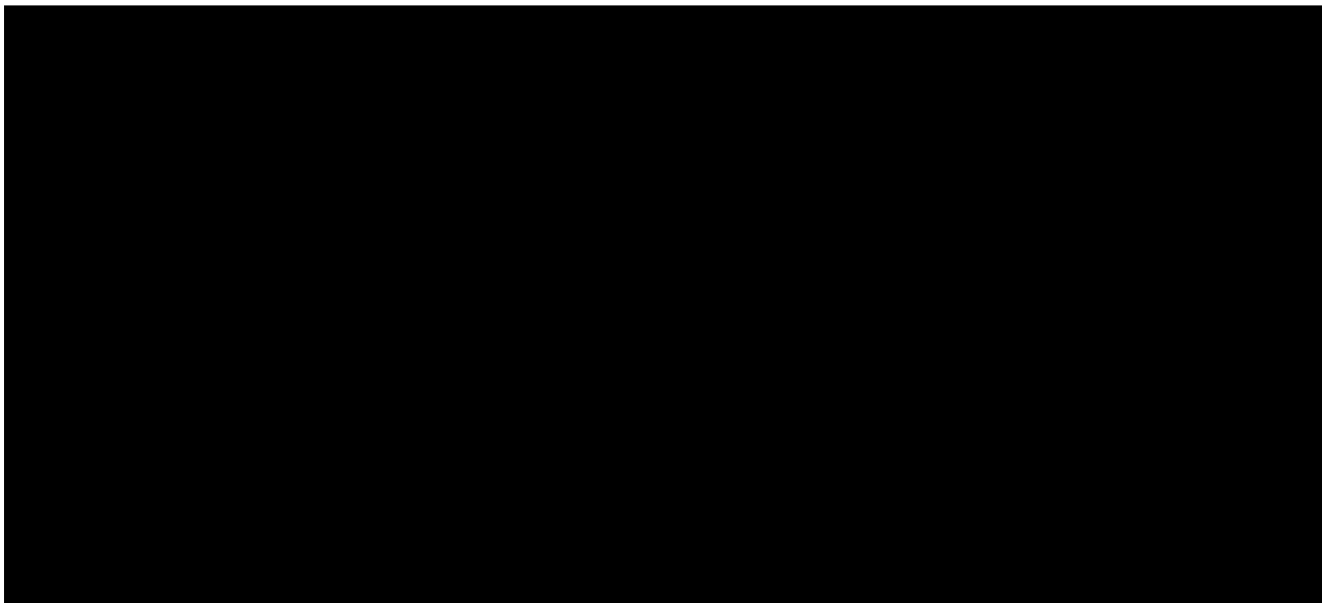


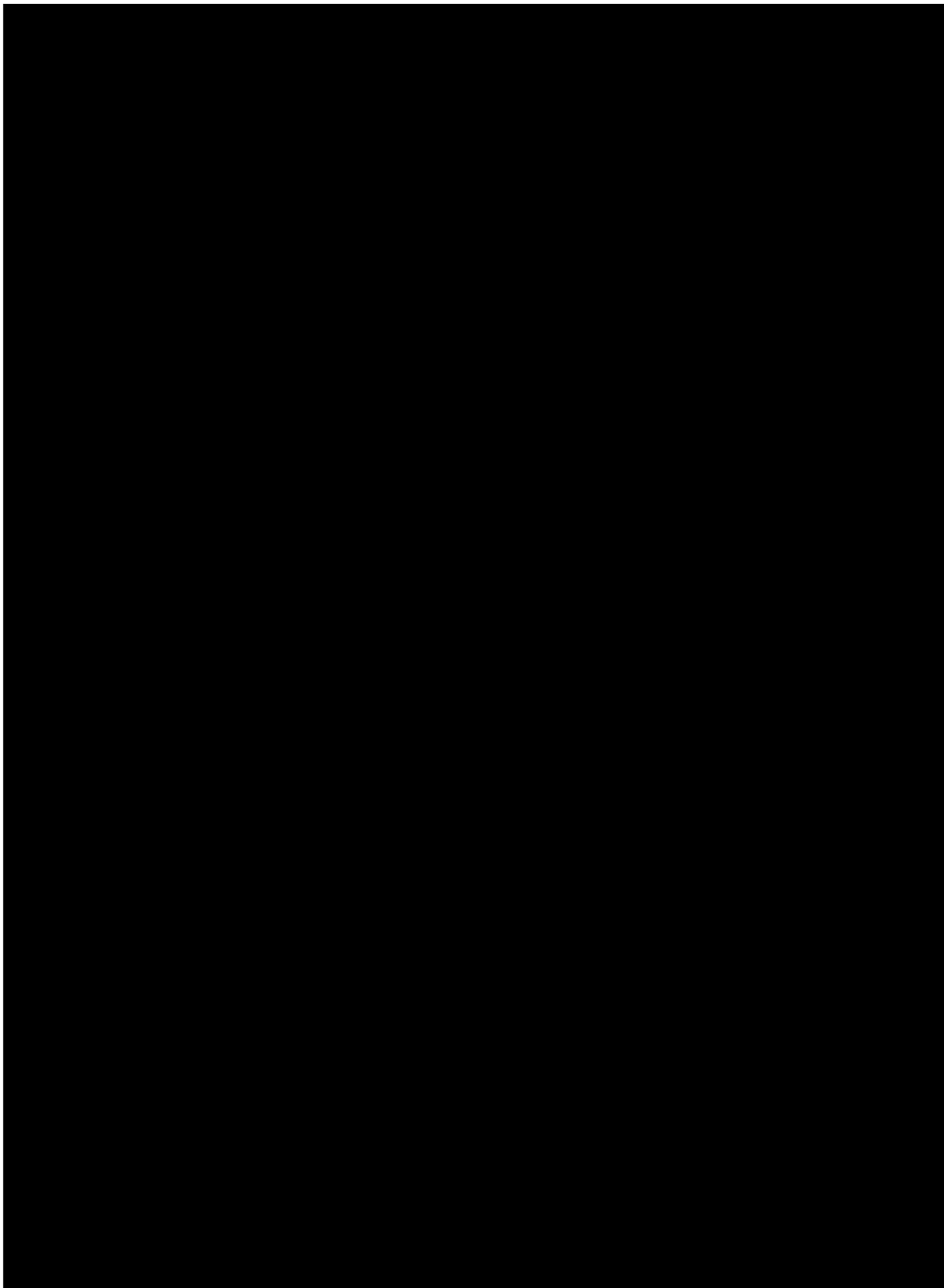


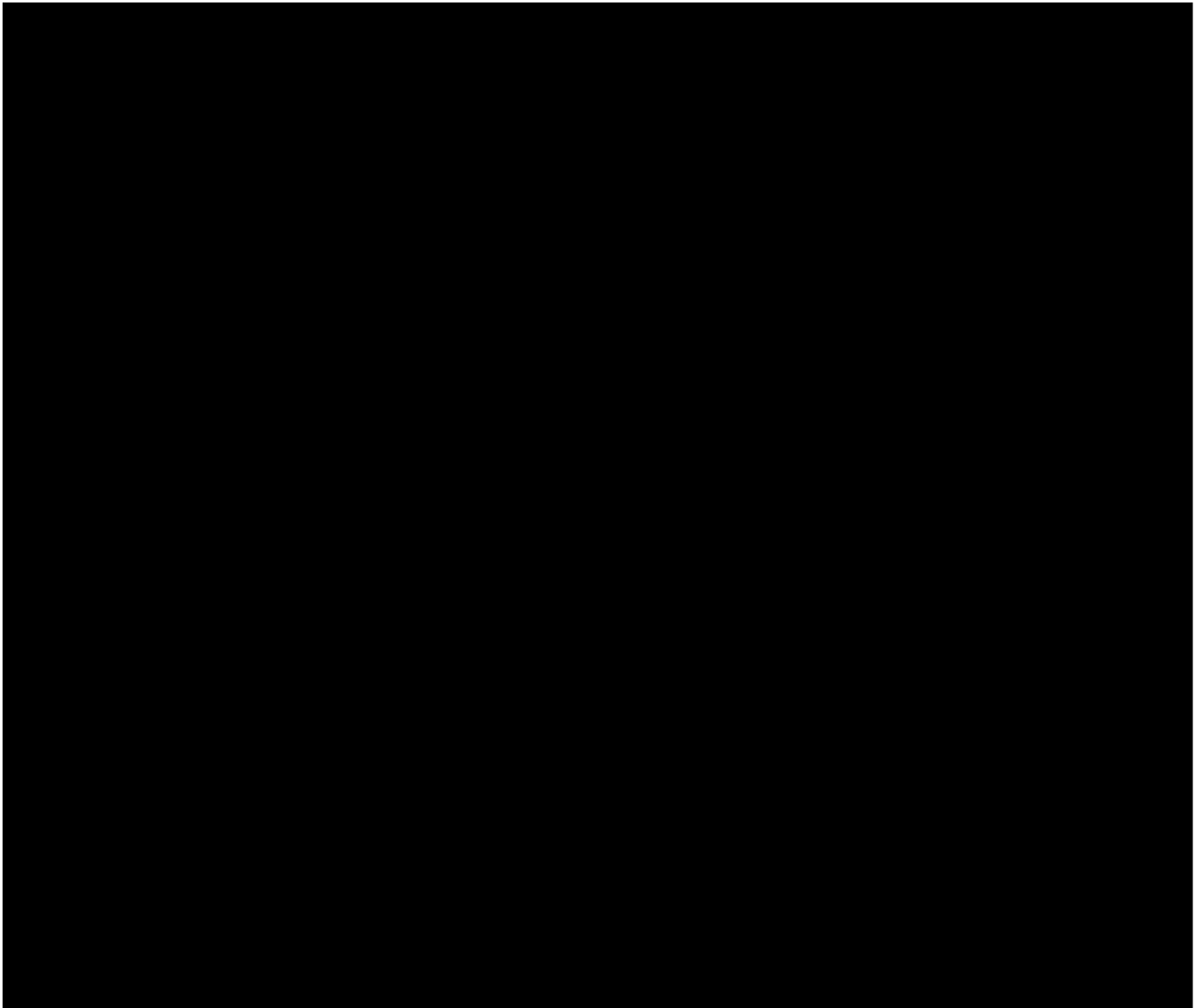


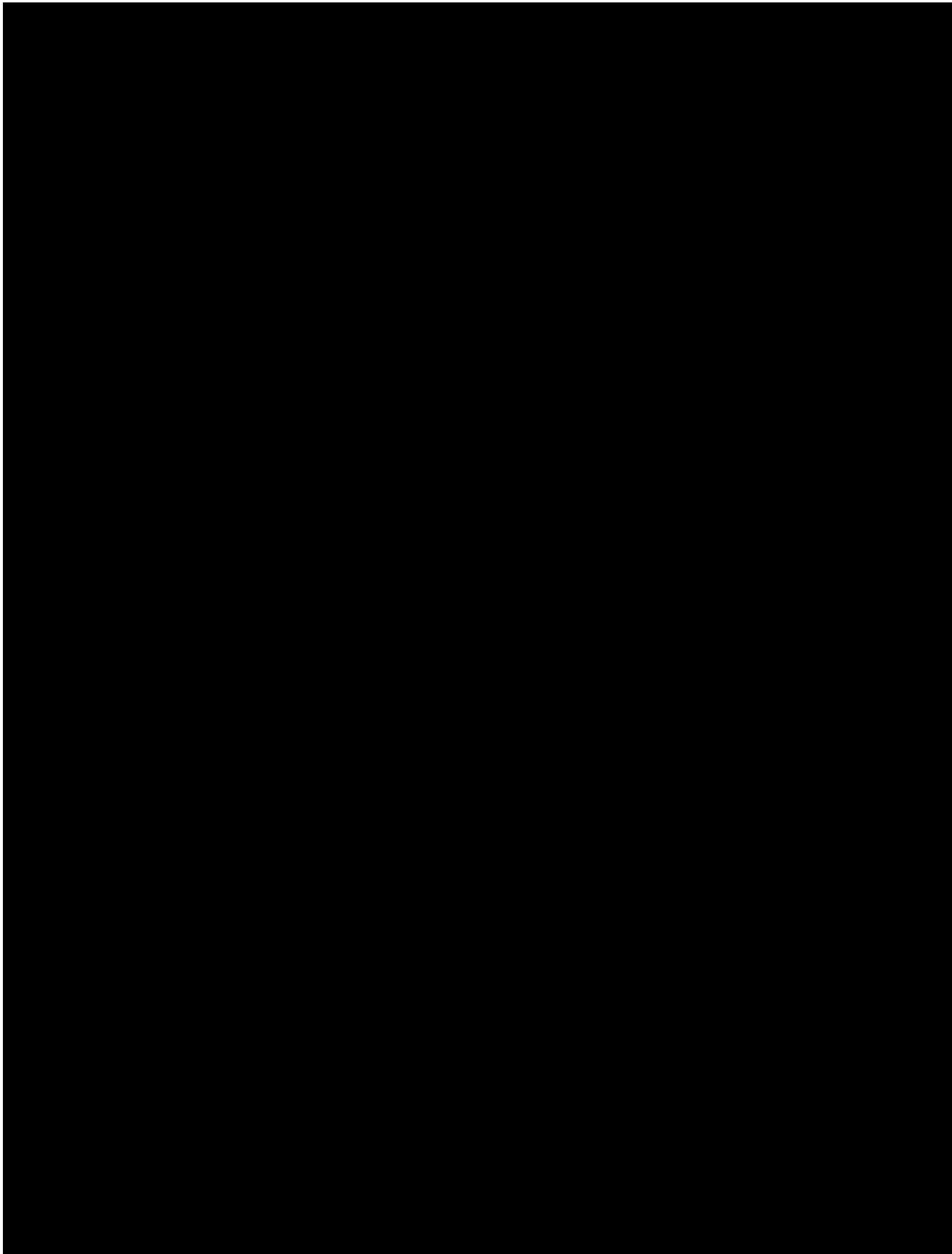


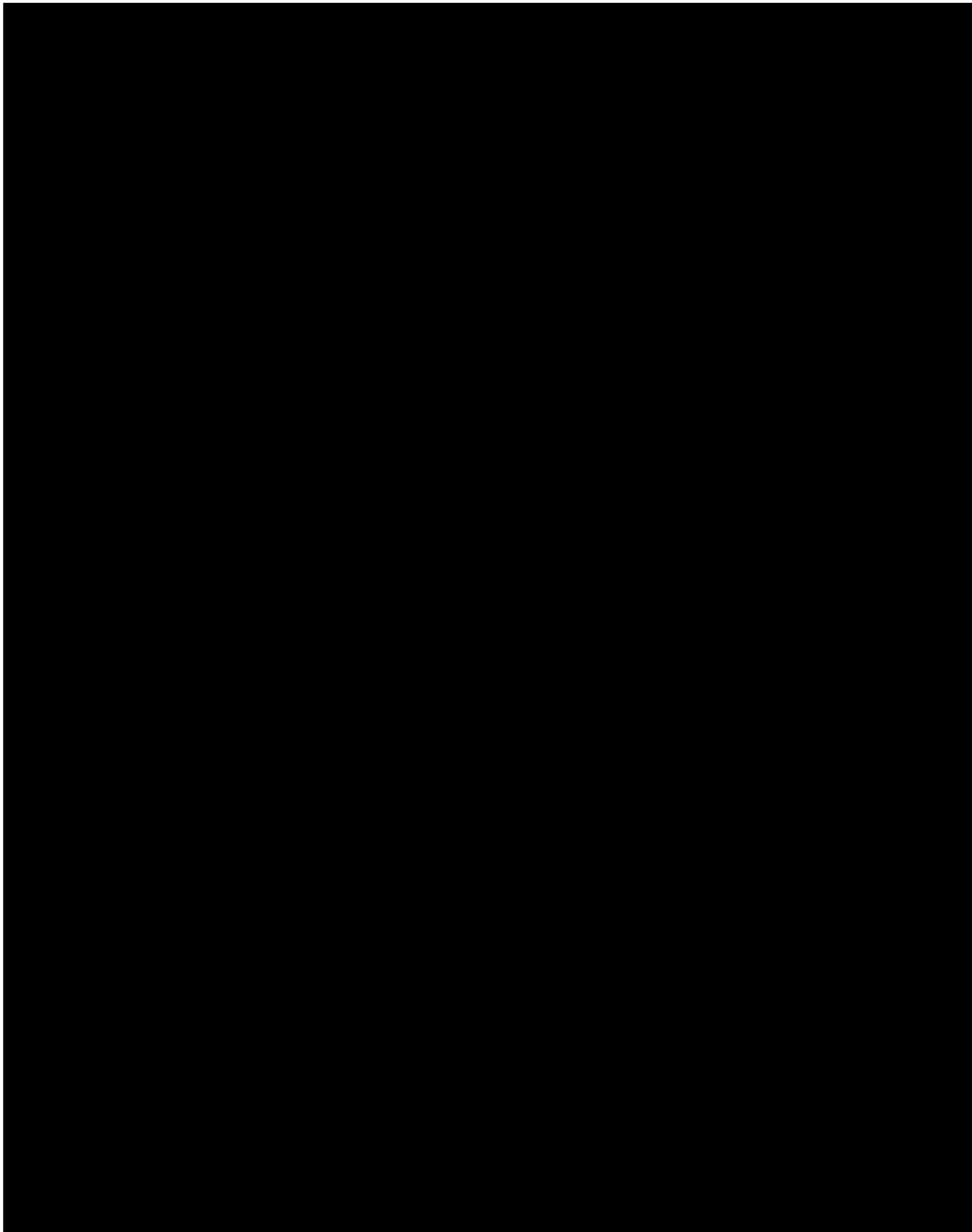


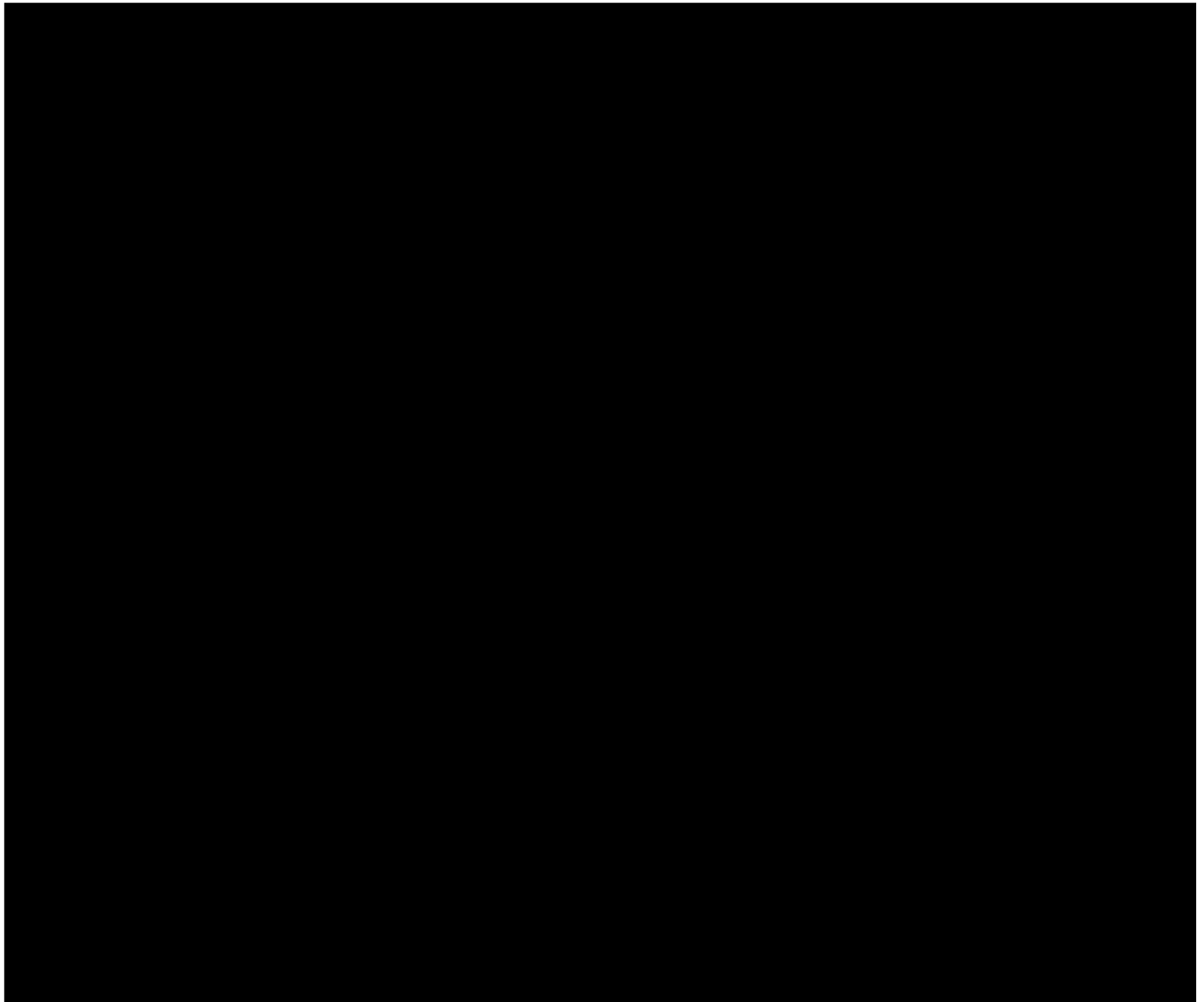












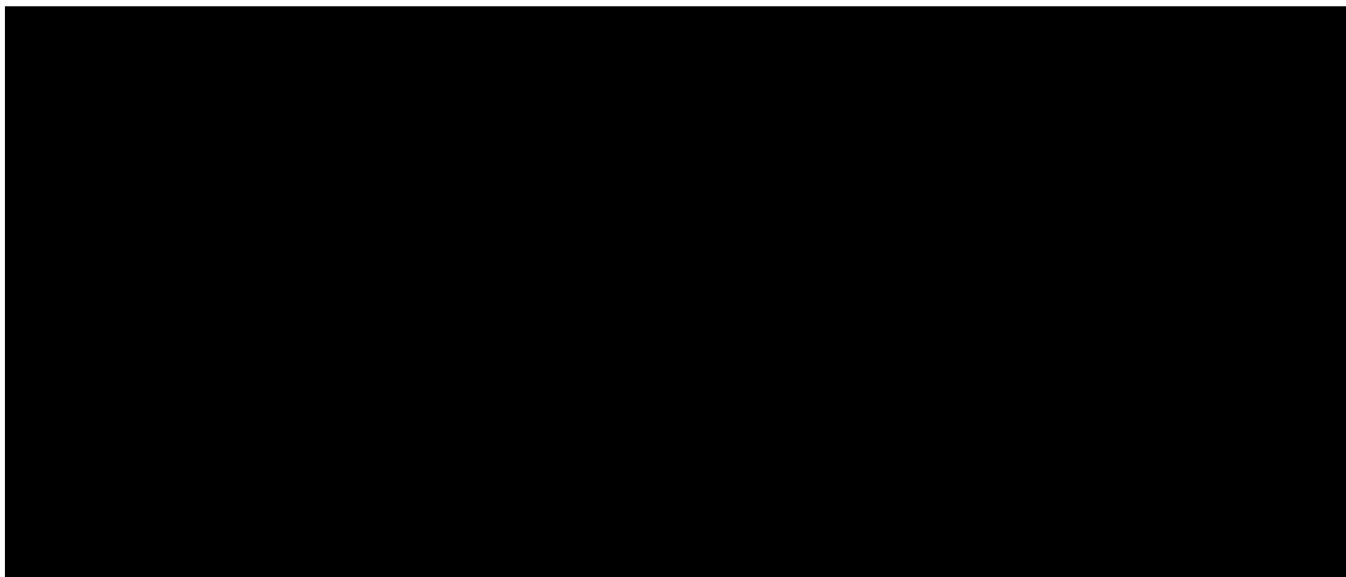


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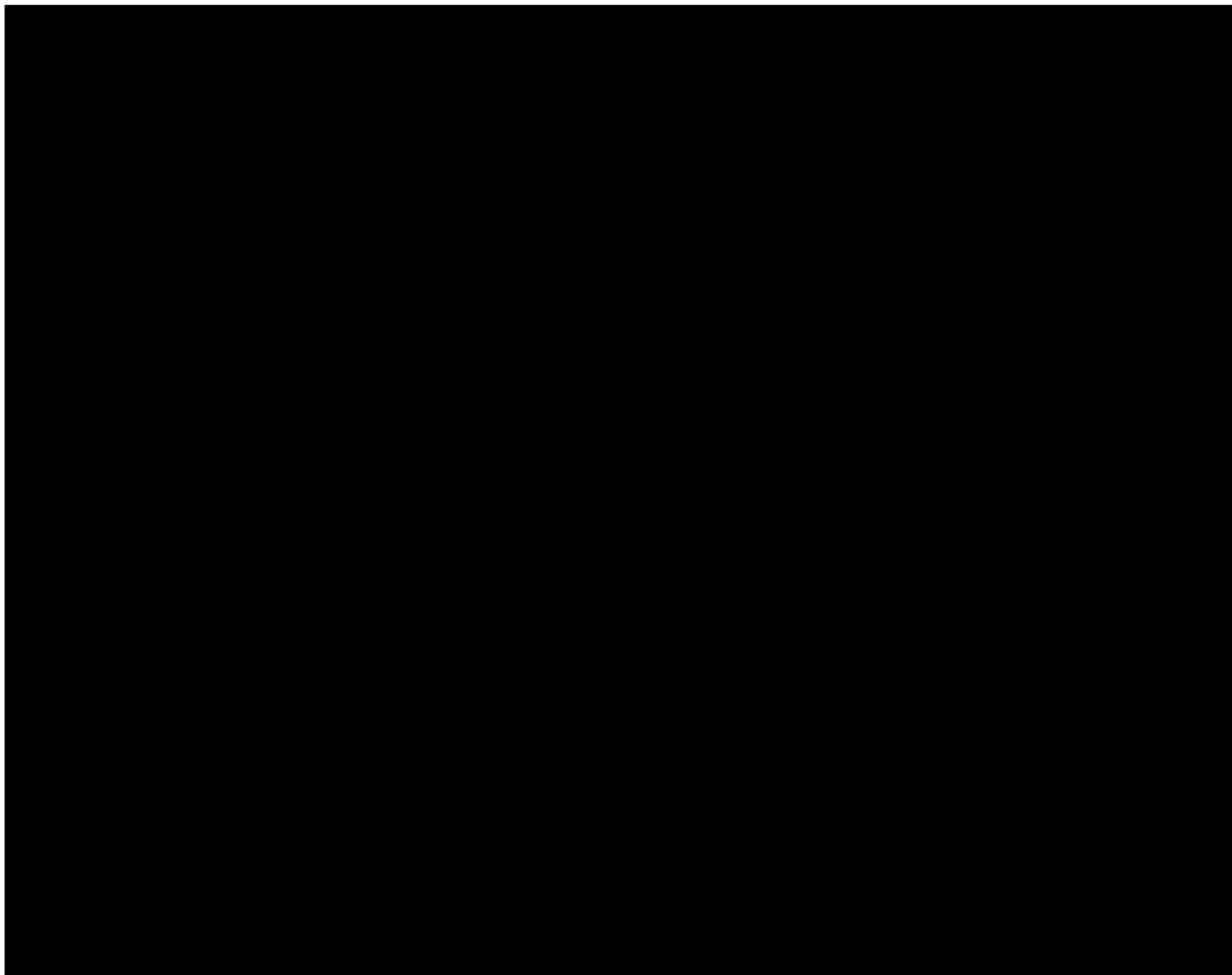
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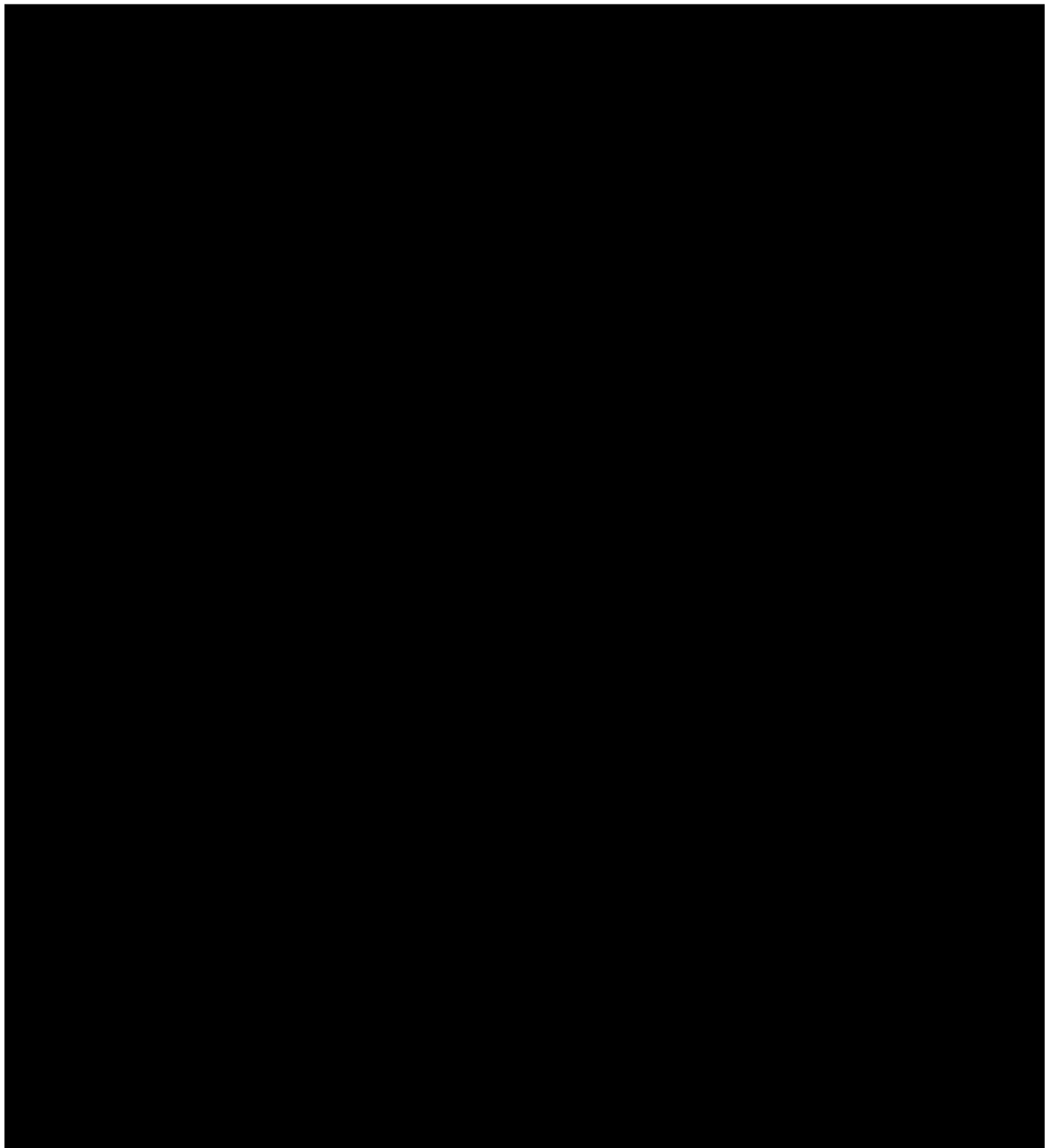
1.1 Introduction

This *Pandemic and Epidemic Annex* provides guidance and direction for Rayos specific to pandemic and epidemic planning to address continuity and maintain essential functions and services during those events.

Within this annex and all other EOP documents, the use of “EOP” refers to the entire suite of documents that address the PUCT requirements, which includes relevant annexes, as listed in the Resources and Related References section.

Any questions regarding the EOP should be directed to the Compliance Manager.





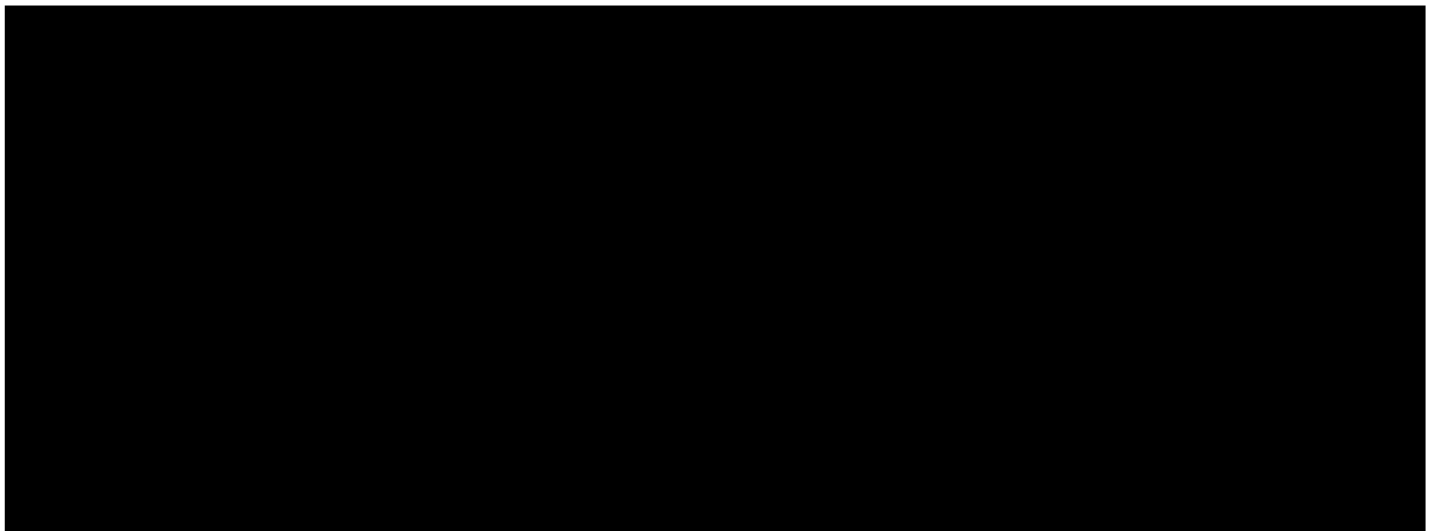
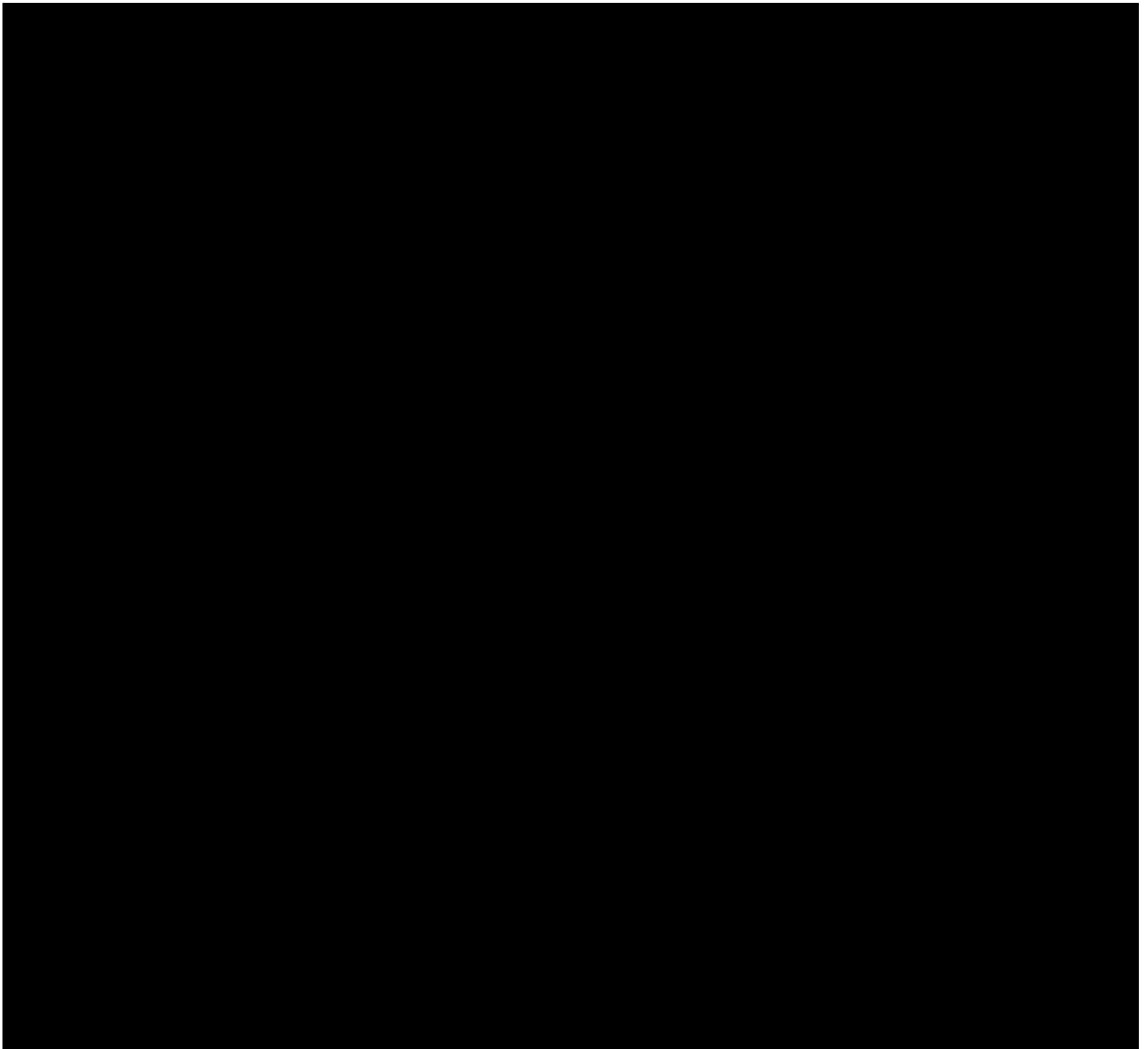
2.0 PANDEMIC THREAT LEVELS

The World Health Organization (WHO) defines a pandemic as a, “worldwide spread of a new disease” where “the impact or severity tends to be higher...in part because of the much larger number of people...who lack pre-existing immunity to a new virus.” Examples of recent pandemic events include the H1N1 pandemic in 2009-2010, the Zika virus pandemic in 2016, and the COVID-19-Coronavirus pandemic starting in 2019.

Rayos del Sol Solar Project, LLC – Pandemic and Epidemic Annex, Version #1.0

The pandemic threat levels are based on the World Health Organization (WHO) and US National Alert Stages and have been modified to fit Rayos. The pandemic threat levels are based on the level of person-to-person transmission and how widespread the disease is in humans, as measured in the US transmittal rates. Planning and response measures are based on the pandemic threat level. Rayos will consult with WHO, the Center for Disease Control (CDC), and the local and state health departments. Attachment 1 contains the Federal Government Response Stages matrix.

Level 0 – Awareness	No documented cases of person-to-person transmission.
Level 1 – Cautionary	Documented person-to-person transmission is rare.
Level 2 – Serious	Limited documented person-to-person transmission (Small Cluster).
Level 3 – Severe	Evidence of widespread person-to-person spread (larger or multiple clusters identified in the US) AND Limited person-to-person spread within city.
Level 4 – Critical	Increasing and sustained person-to-person transmission AND Multiple clusters of cases identified in two (2) or more countries or regions.



7.0 RESOURCES AND RELATED DOCUMENTS

Rayos Emergency Operations Plan

Rayos Hot Weather Annex

Rayos Cold Weather Annex

Rayos Cyber and Physical Security Incident Annex

Rayos Hurricane Annex

Centers for Disease Control

Pandemic resources webpage: <https://www.cdc.gov/flu/pandemic-resources/index.htm>

National Strategy Planning webpage:

<https://www.cdc.gov/flu/pandemic-resources/planning-preparedness/national-strategy-planning.html>

NERC COVID-19 webpage: <https://www.nerc.com/news/Pages/COVID-19.aspx>

World Health Organization

<https://www.who.int/emergencies/diseases/en/>

Health and Human Services

- Pandemic Influenza Preparedness Response and Recovery Guide for Critical Infrastructure and Key Resources

<https://asprtracie.hhs.gov/technical-resources/resource/1978/pandemic-influenza-preparedness-response-and-recovery-guide-for-critical-infrastructure-and-key-resources>

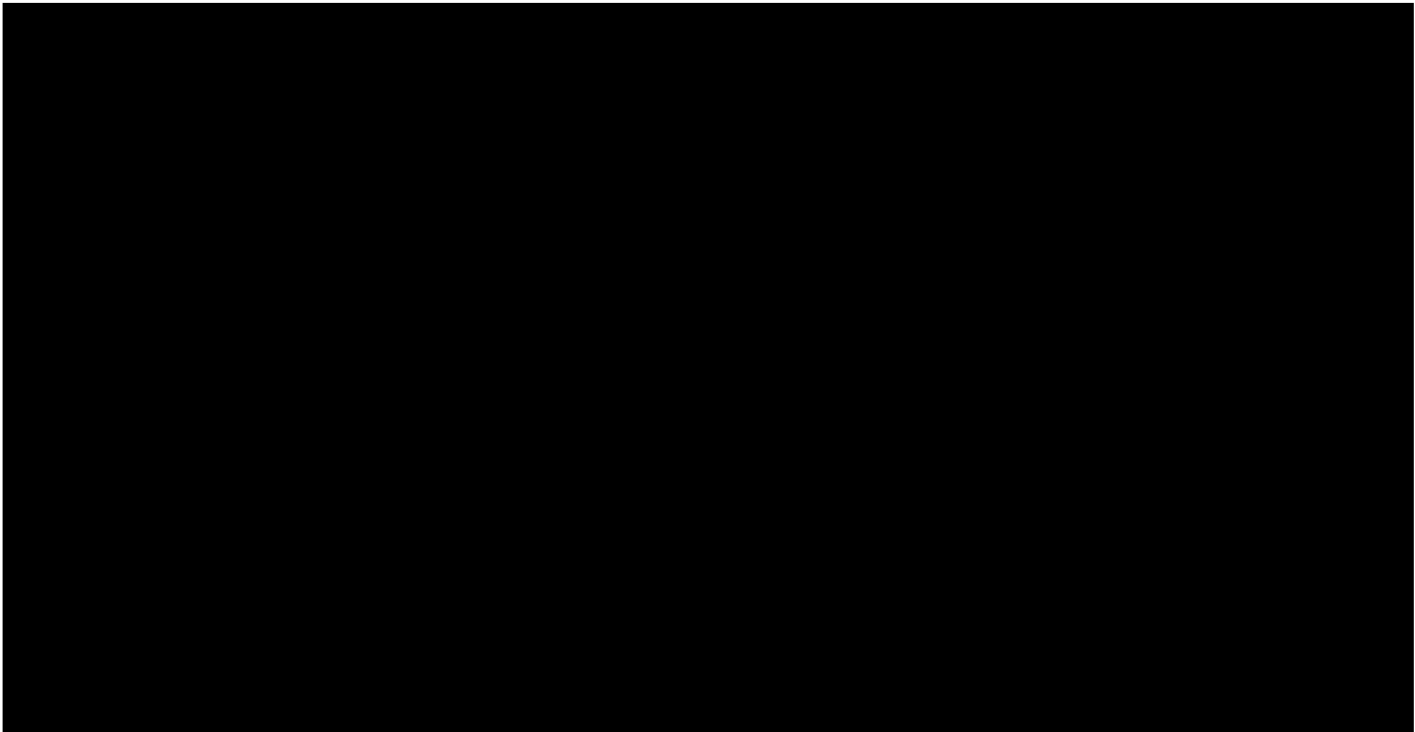
Texas Health and Human Services – Health Alerts & Advisories webpage:

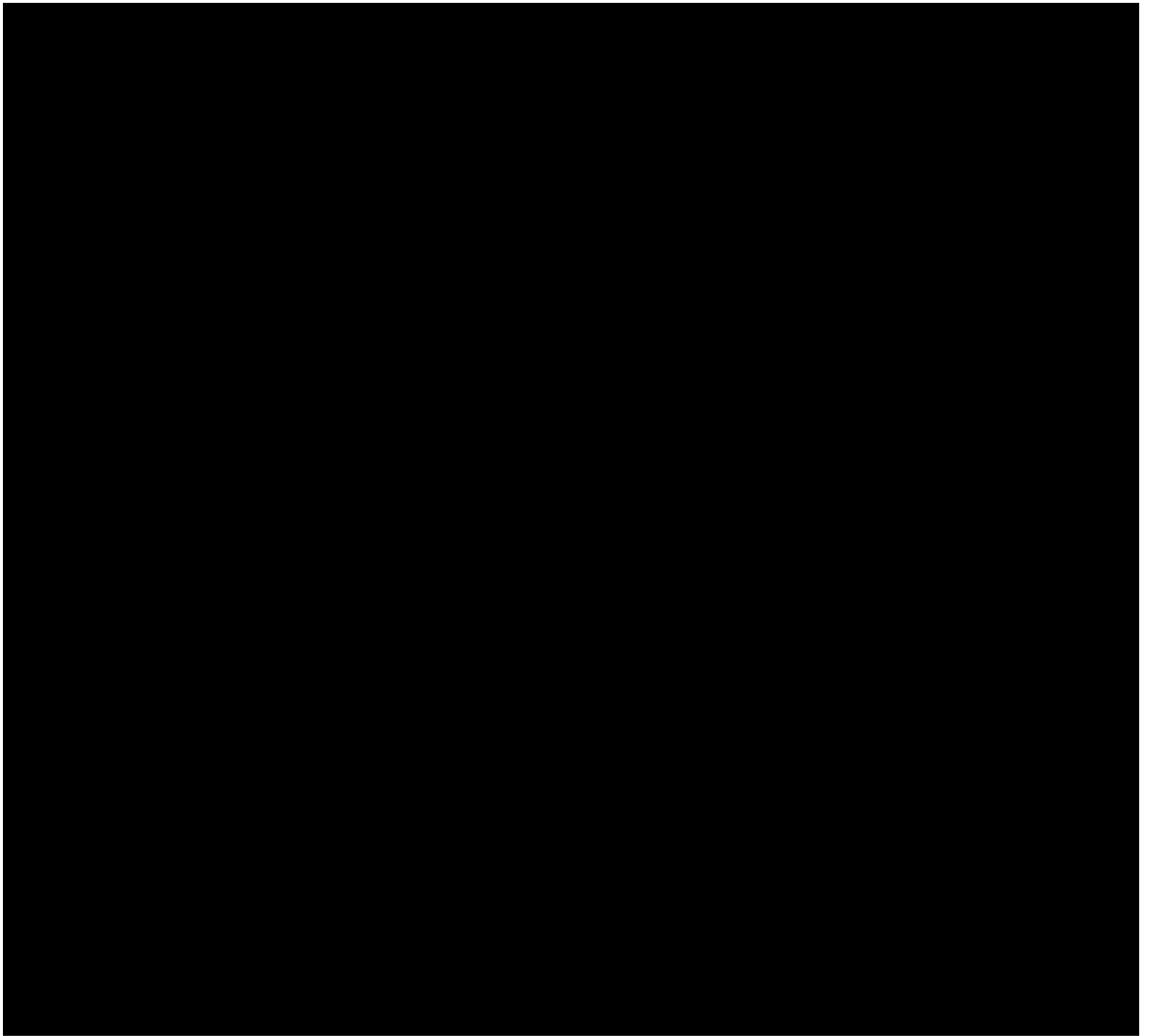
<https://dshs.texas.gov/news/alerts.aspx>

Cameron County Public Health Department: <https://www.cameroncountytexas.gov/publichealth/>

8.0 SECTION 25.53 DEFINITIONS

Term	Definition
Annex	A section of an emergency operations plan that addresses how an entity plans to respond in an emergency involving a specified type of hazard or threat.
Drill	An operations-based exercise that is a coordinated, supervised activity employed to test an entity’s EOP or a portion of an entity’s EOP. A drill may be used to develop or test new policies or procedures or to practice and maintain current skills.
Emergency	A situation in which the known, potential consequences of a hazard or threat are sufficiently imminent and severe that an entity should take prompt action to prepare for and reduce the impact of harm that may result from the hazard or threat. The term includes an emergency declared by local, state, or federal government, or ERCOT or another reliability coordinator designated by the North American Electric Reliability Corporation and that is applicable to the entity.
Entity	An electric utility, transmission and distribution utility, PGC, municipally owned utility, electric cooperative, REP, or ERCOT.
Hazard	A natural, technological, or human-caused condition that is potentially dangerous or harmful to life, information, operations, the environment, or property, including a condition that is potentially harmful to the continuity of electric service.
Threat	The intention and capability of an individual or organization to harm life, information, operations, the environment, or property, including harm to the continuity of electric service.





ATTACHMENT 1: WHO PHASES AND GOVERNMENT RESPONSE STAGES

Taken from *Pandemic Influenza: Preparedness, Response, and Recovery; Guide for Critical Infrastructure and Key Resources*

(<https://www.dhs.gov/sites/default/files/publications/cikrpandemicinfluenzaguide.pdf>)

WHO Phases		Federal Government Response Stages	
INTER-PANDEMIC PERIOD			
1	No new influenza virus subtypes have been detected in humans. An influenza virus subtype that has caused a human infection may be present in animals. If present in animals, the risk of human disease is considered to be low.	0	New domestic animal outbreak in at-risk country
2	No new influenza virus subtypes have been detected in humans. However, a circulating animal influenza subtype poses a substantial risk of human disease.		
PANDEMIC ALERT PERIOD			
3	Human infection(s) with a new subtype, but no human-to-human spread, or at most rare instances of spread to a close contact.	0	New domestic animal outbreak in at-risk country
		1	Suspected human outbreak overseas
4	Small cluster(s) with limited human-to-human transmission but spread is highly localized, suggesting that the virus is not well adapted to humans.	2	Confirmed human outbreak overseas
5	Larger cluster(s) but human-to-human spread still localized, suggesting that the virus is becoming increasingly better adapted to humans, but may not yet be fully transmissible (substantial pandemic risk).		
PANDEMIC PERIOD			
6	Pandemic phase: increased and sustained transmission in general population.	3	Widespread human outbreaks in multiple locations overseas
		4	First human case in North America
		5	Spread throughout United States
		6	Recovery and preparation for subsequent waves

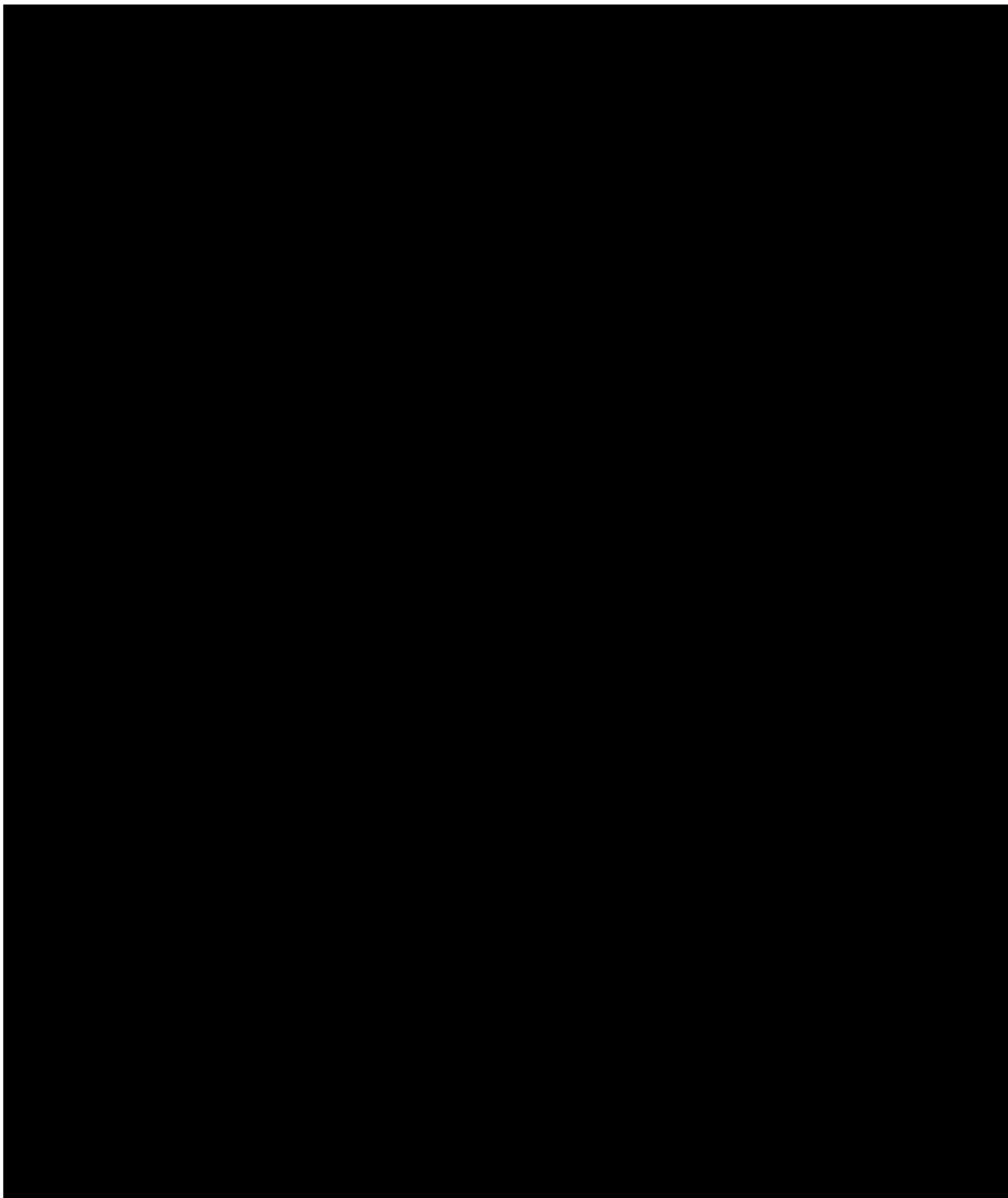


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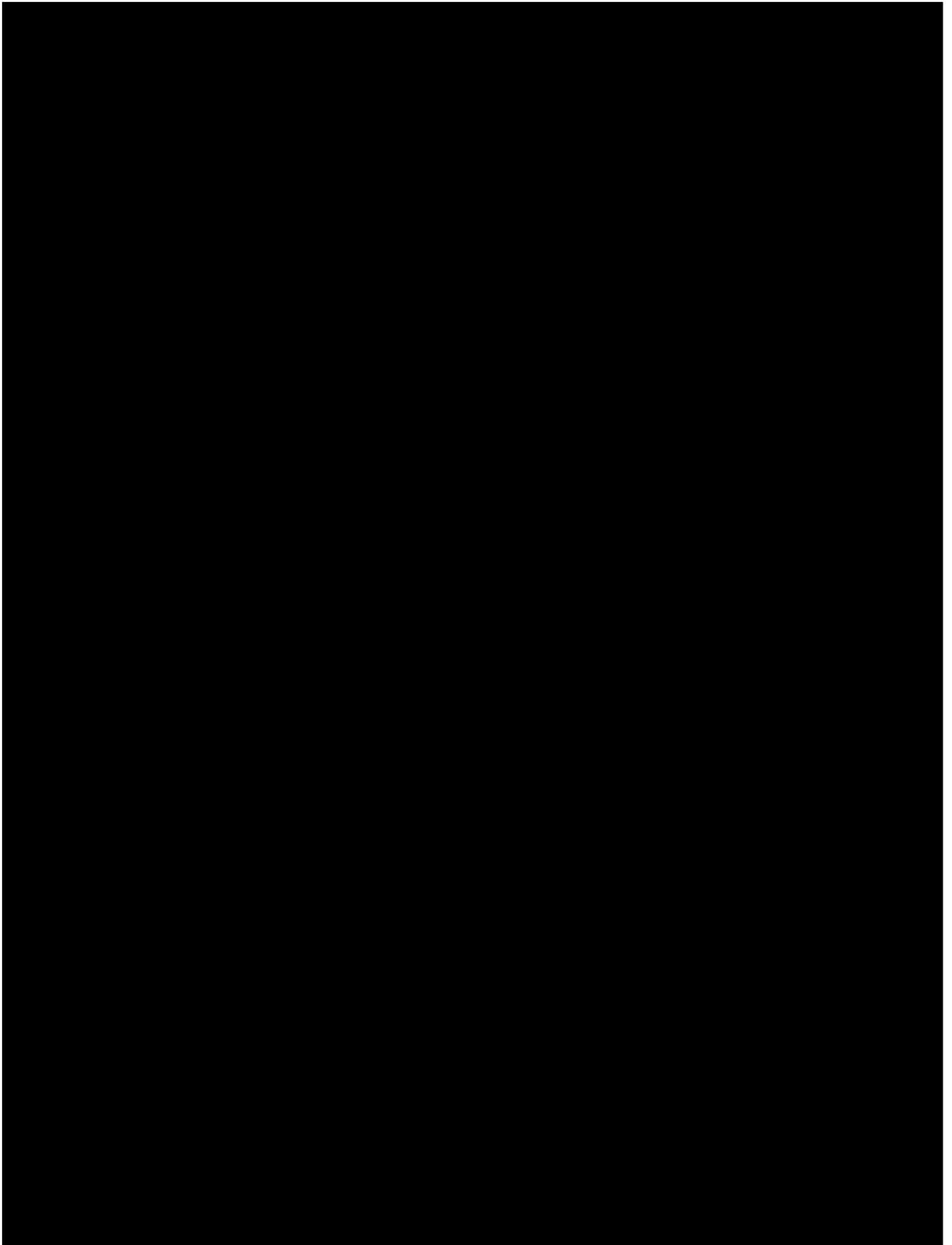
A. Introduction and Applicability

1.1 Introduction

This *Hot Weather Annex* provides guidance and direction for Rayos specific to hot weather operations, planning, and emergency response and includes plans for responding to a hot weather emergency and checklists for Rayos to use during a hot weather emergency that includes lessons learned from past weather emergencies to ensure that necessary supplies and personnel are available through the weather emergency.

Within this annex **and all other EOP documents**, the use of “EOP” refers to the entire suite of documents that address the PUCT requirements, which includes relevant annexes, as listed in the Resources and Related References section.

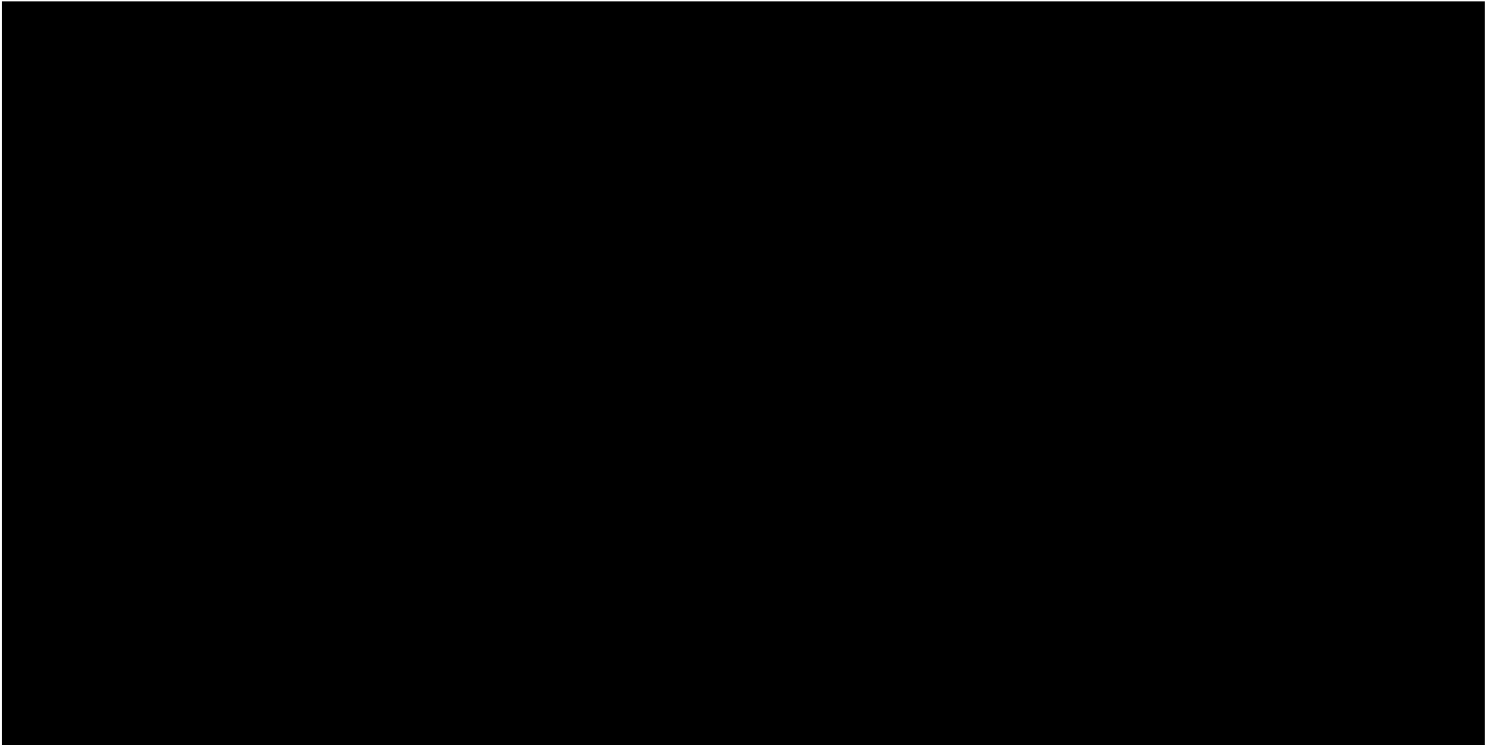
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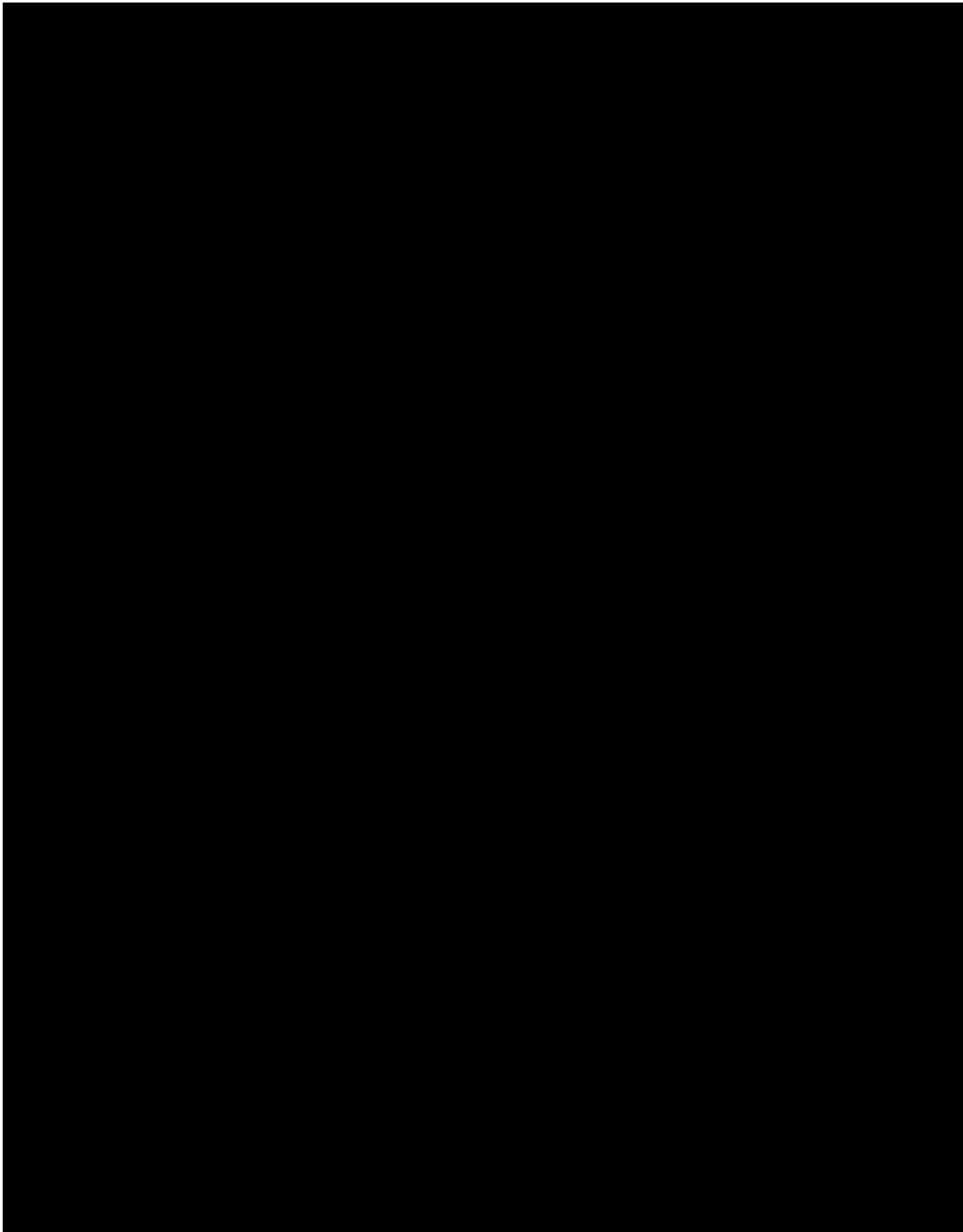


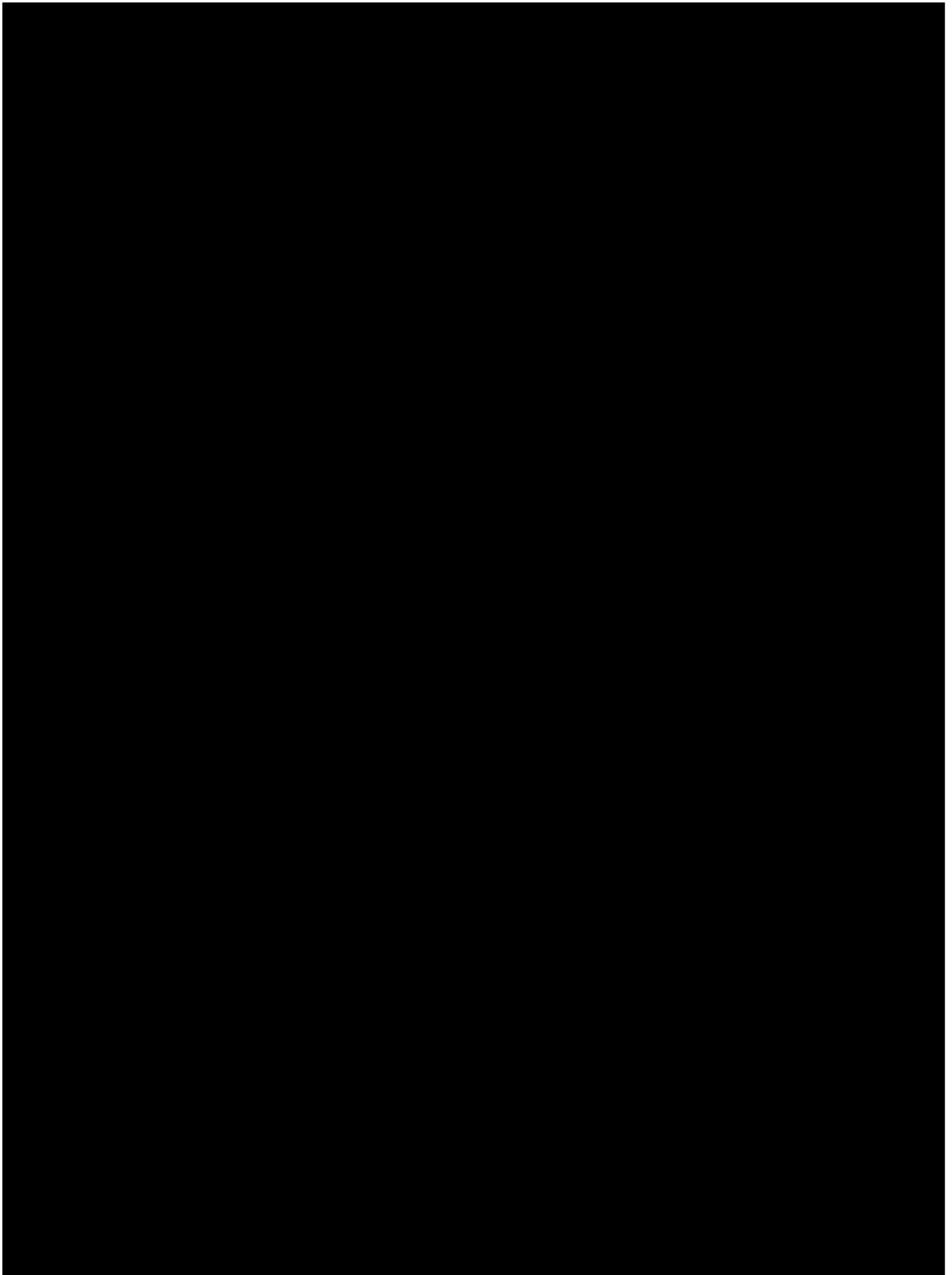


2.0 LOCAL CONDITIONS

For comparison, at the Valley International Airport Station located in Harlingen (~20 miles from La Feria), the recorded temperatures for summer 2021 (June through September) range from an average maximum temperature of 95.39°F (August)¹ to an average minimum temperature of 72.7°F (September)², with a high of 98°F recorded in September.







7.0 HEAT-RELATED SAFETY INFORMATION

7.1 Personnel Safety

Personnel safety during extreme hot weather events is a priority. The information in this section is aimed at reducing or preventing Personnel weather-related risks.

Rayos Personnel will stay informed of potential severe weather events and utilize the information in this annex to respond. Job safety briefings will be conducted as needed during preparation for and in response to extreme hot weather events.

7.2 Heat Exhaustion

7.2.1 Signs of heat exhaustion include:

- Heavy sweating
- Weakness
- Cold, pale, clammy skin
- Fast, weak pulse
- Nausea or vomiting
- Fainting

7.2.2 Response to a heat exhaustion illness should include the following actions:

- Move to a cooler location.
- Lie down and loosen clothing.
- Apply cool, wet clothes to as much of your body as possible.
- Sip water.

Seek immediate medical attention by calling 911 if you experience vomiting or if your symptoms get worse or last longer than an hour.

7.3 Heat Stroke

Heat stroke is a condition in which your body is unable to adequately cool any longer.

7.3.1 Signs of heat stroke include:

- High body temperature (103°F or higher)
- Hot, red, dry, or damp skin
- Headache
- Dizziness
- Nausea
- Confusion
- Loss of Consciousness

7.3.2 Response to heat stroke should include the following actions:

- Contact Emergency Services by calling 911 if you suspect heat stroke.
- Move person to a cooler place.
- **Help lower the person's temperature with cool cloths or a cool bath.**
- DO NOT give the person anything to drink.

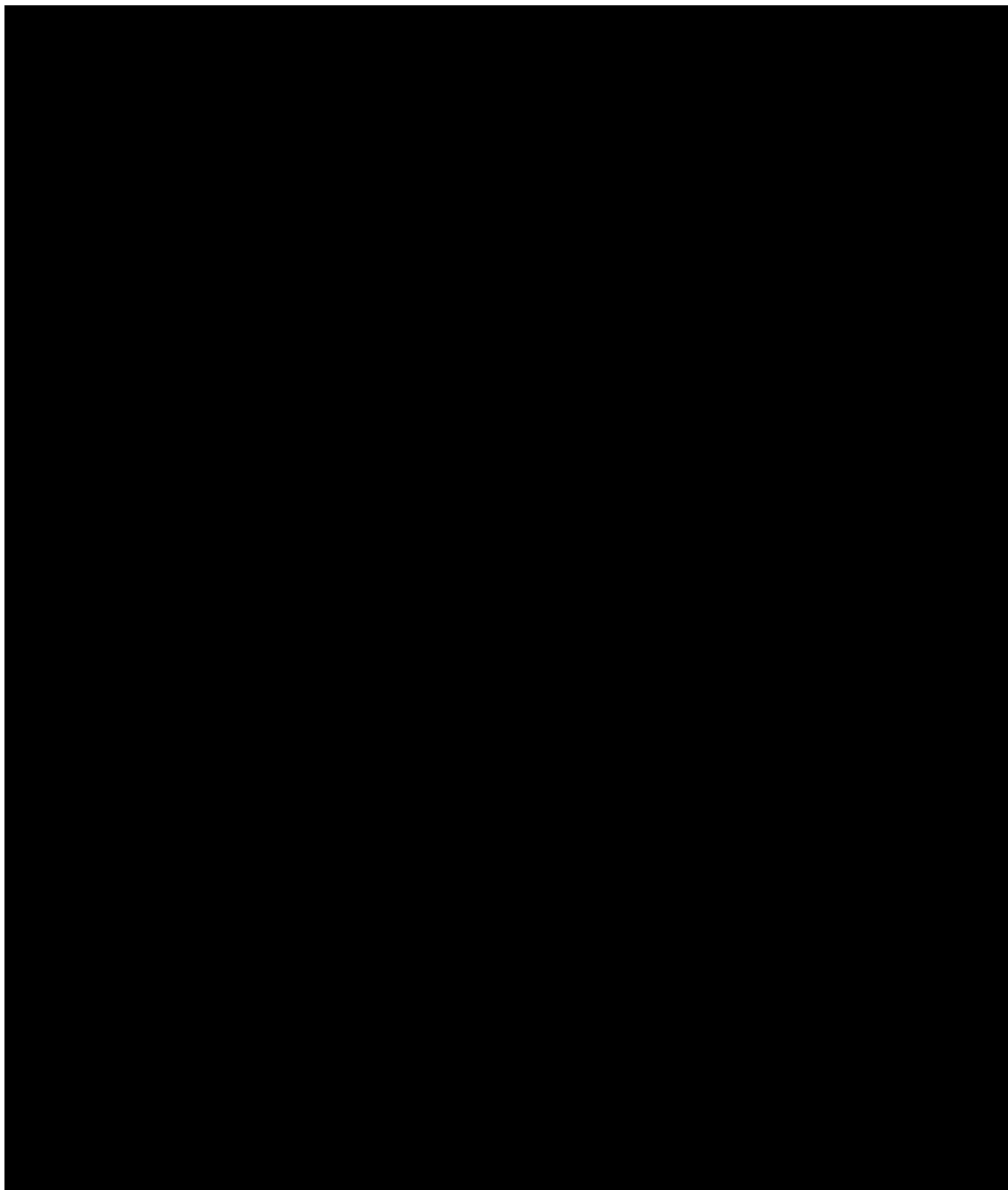
7.4 Safety Procedures

7.4.1 During extreme hot weather events, facility Personnel should adhere to the following procedures.

- 7.4.1.1 Review heat stress training and related illness signs and symptoms with all personnel on at least a monthly basis during the summer months and prior to anticipated extreme hot weather events.
- 7.4.1.2 Take breaks in air-conditioned spaces
- 7.4.1.3 Wear loose, lightweight, light-colored clothing.
- 7.4.1.4 Wear hats when working outdoors.
- 7.4.1.5 Wear and reapply sunscreen as indicated on the package.
- 7.4.1.6 Regularly drink water to remain hydrated (two to four 8-ounce cups of water every hour while working).
- 7.4.1.7 Where possible, schedule outdoor work for earlier or later in the day to avoid the hottest part of the day.

Rayos del Sol Solar Project, LLC – Hot Weather Annex, Version #1.0

- 7.4.1.8 Seek medical care immediately if you or a co-worker shows symptoms of heat-related illness.



10.0 ERCOT ANNUAL SUMMER WEATHER DECLARATION SUBMITTAL

10.1 ERCOT Requirement for Annual Summer Weatherization Declaration Submittal

10.1.1 Rayos must submit a declaration between **May 1 and June 1** that it has completed or will complete all weather preparations required by this annex for equipment critical to the reliable operation of the Generation Resource during the summer time period (June through September).

10.1.2 Rayos will follow all other requirements in ERCOT Protocols 3.21(3) concerning the submission of the declaration, as applicable.

11.0 RESOURCES AND RELATED DOCUMENTS

Rayos Emergency Operations Plan

Rayos Cold Weather Annex

Rayos Cyber and Physical Security Incident Annex

Rayos Hurricane Annex

Rayos Pandemic and Epidemic Annex

ERCOT

Current Protocols - Nodal: <http://www.ercot.com/mktrules/nprotocols/current>

- **Section 3: Management Activities for the ERCOT System**
- **Section 22 Attachment K: Declaration of Completion of Generation Resource Summer Weatherization Preparations and Natural Gas Pipeline for Resource Entities with Natural Gas Generation Resources**

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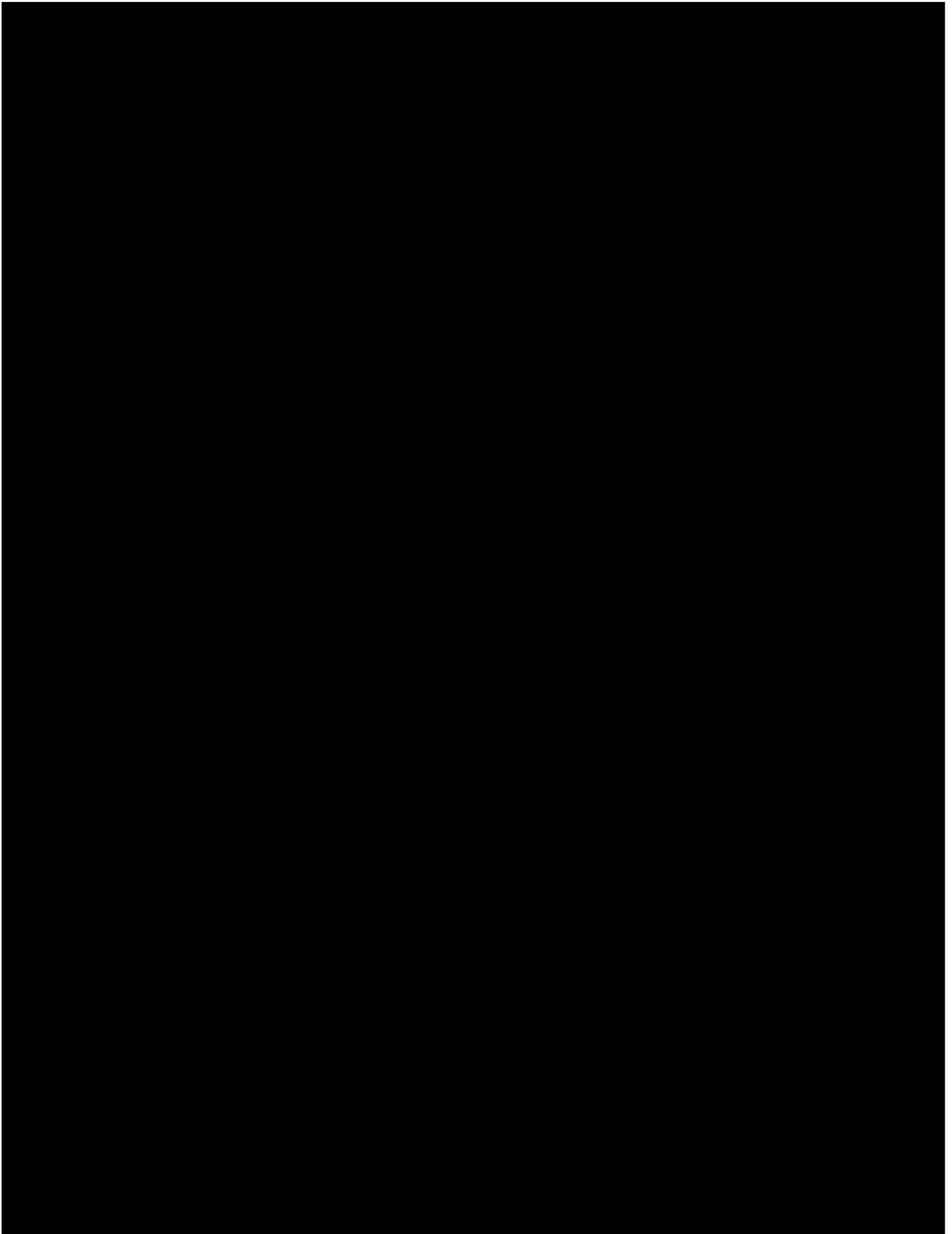
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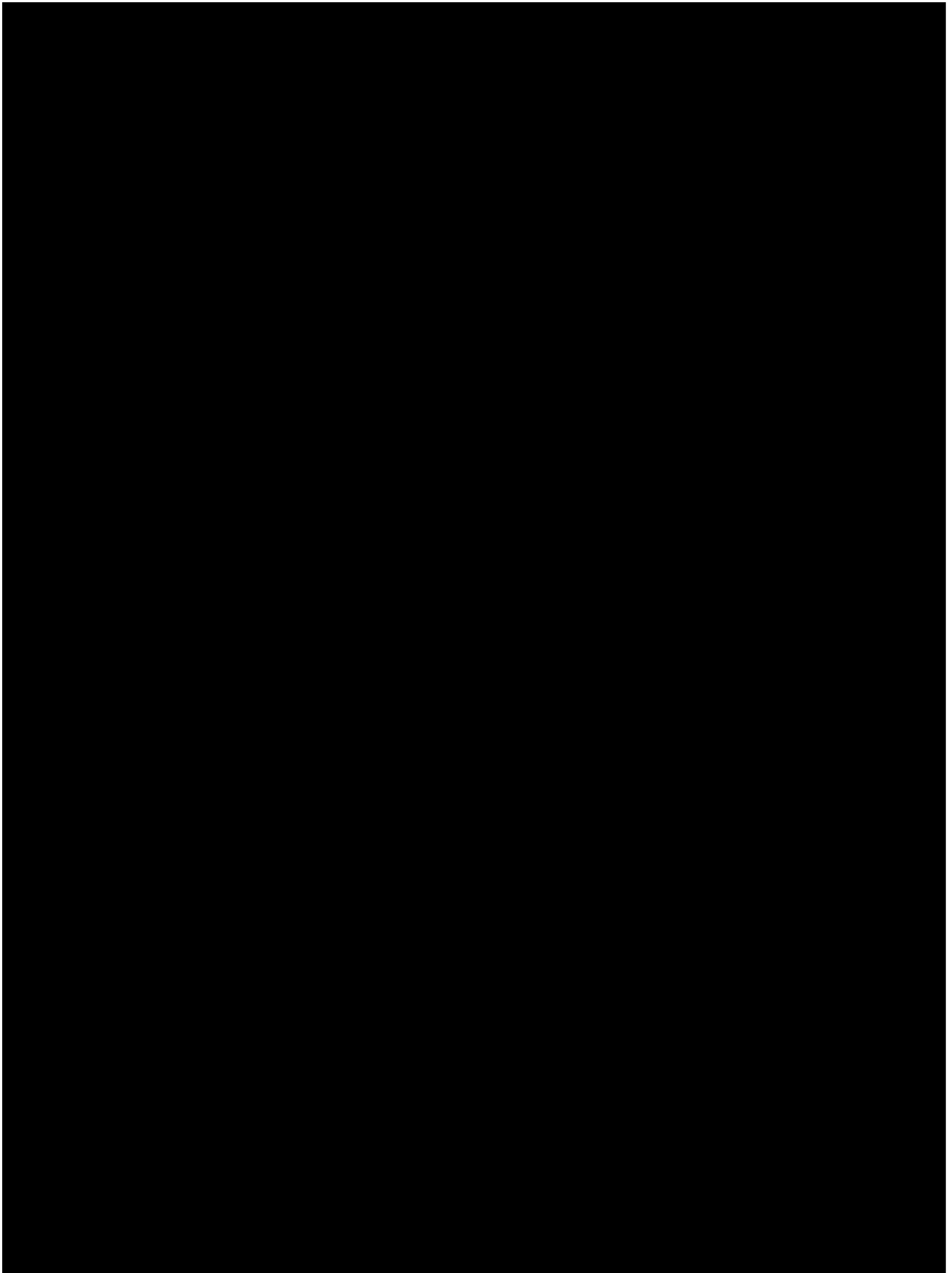
<https://www.puc.texas.gov/agency/rulesnlaws/subrules/electric/Electric.aspx>

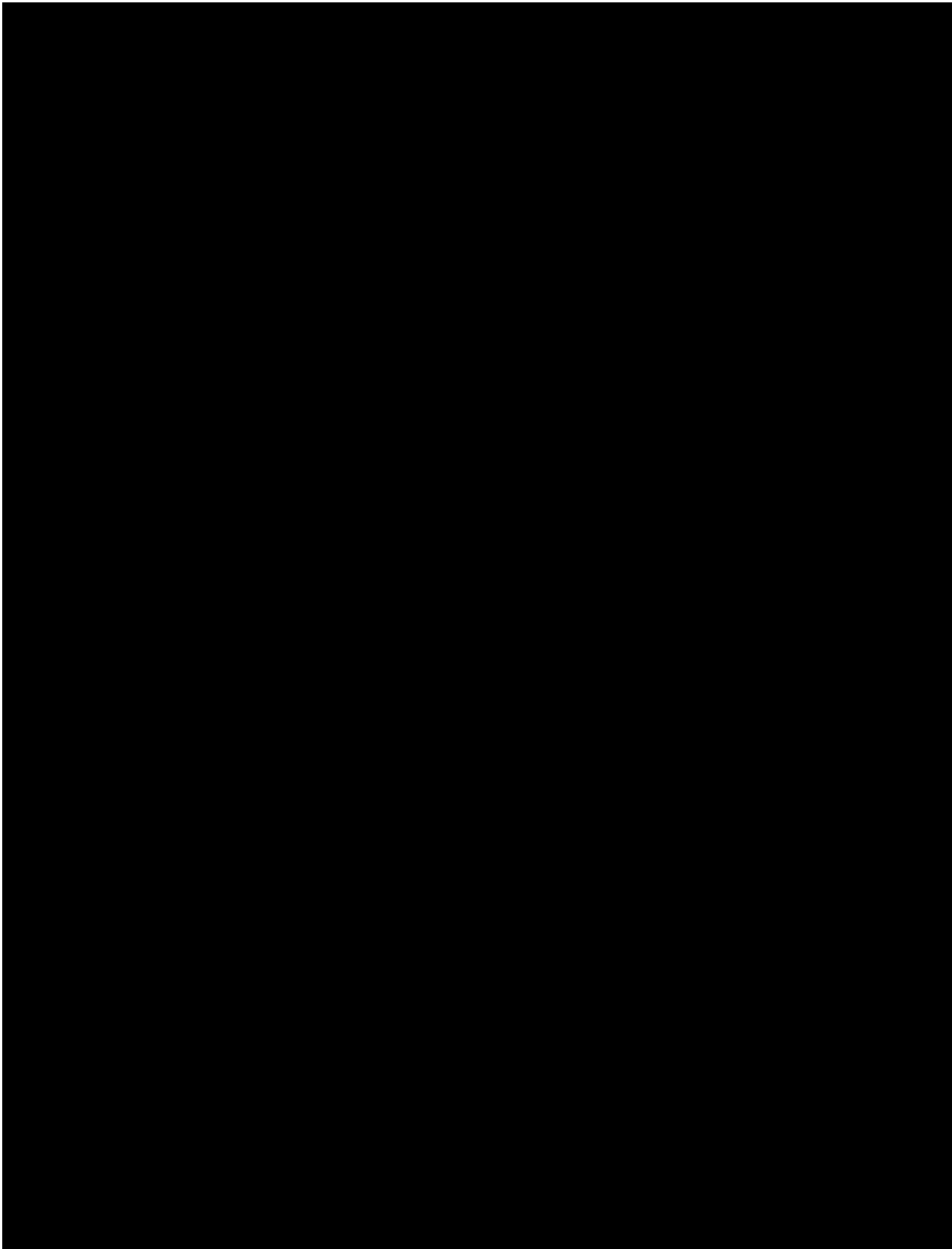
- **Subchapter C, §25.53 - Electric Service Emergency Operations Plans**

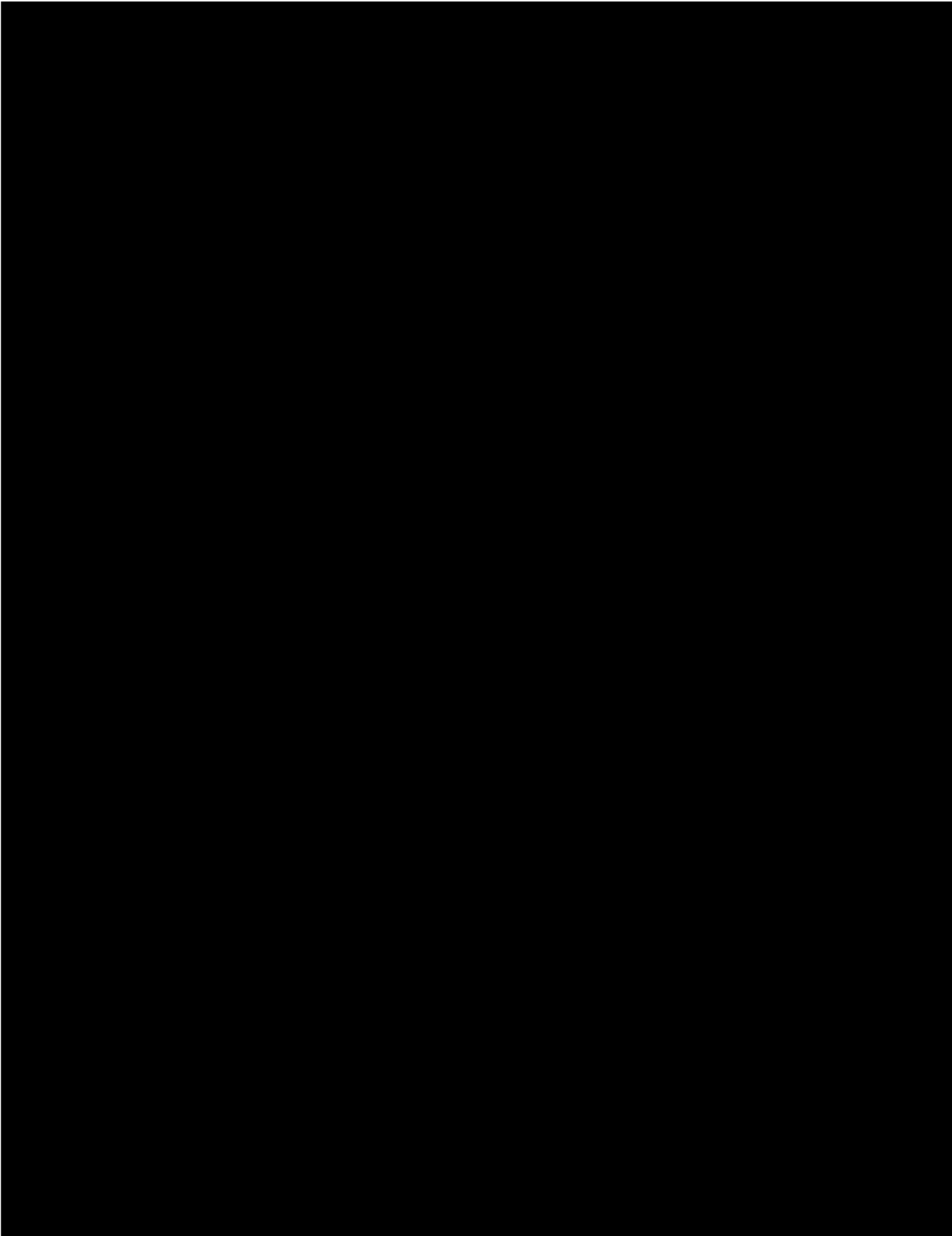
12.0 SECTION 25.53 DEFINITIONS

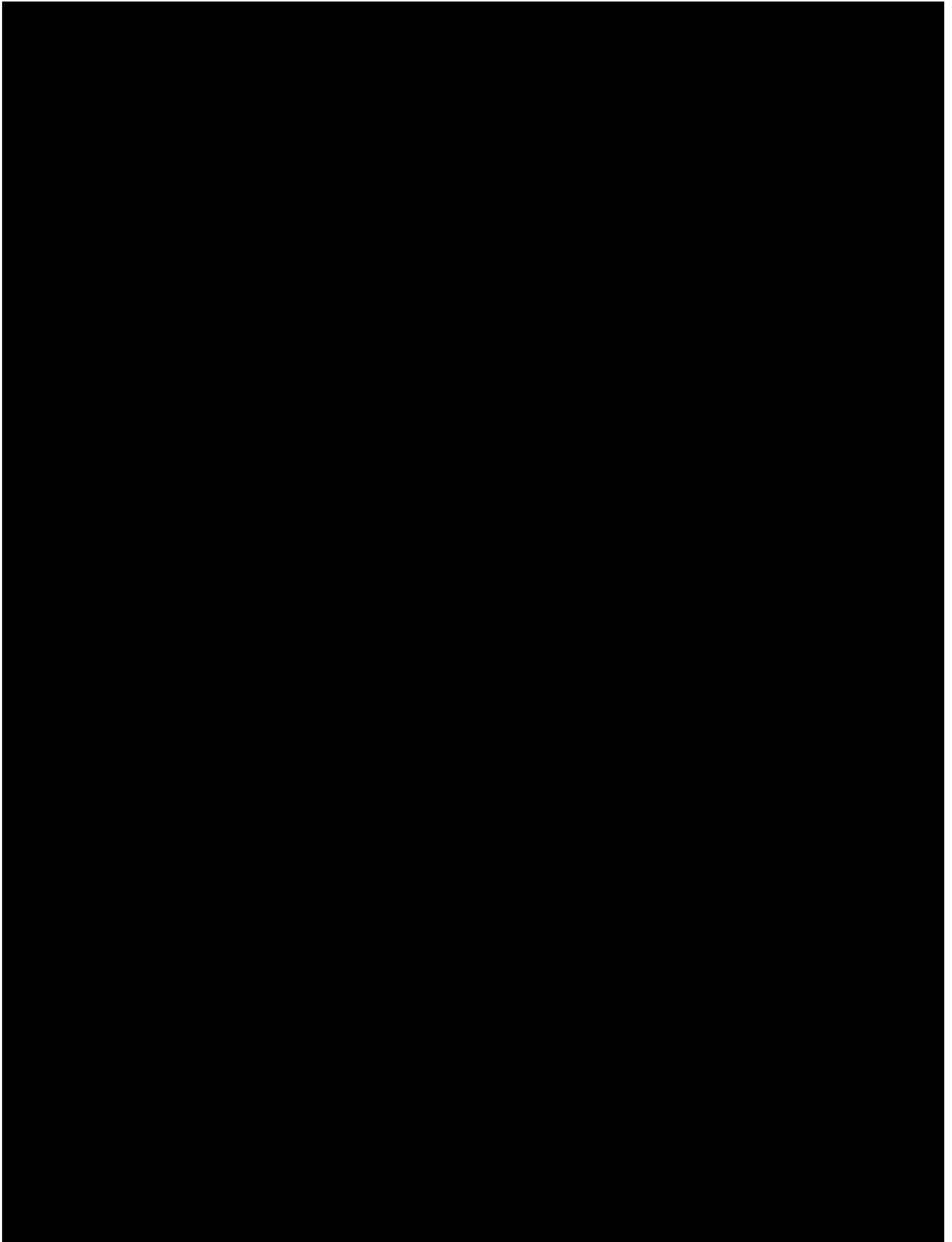
Term	Definition
Annex	A section of an emergency operations plan that addresses how an entity plans to respond in an emergency involving a specified type of hazard or threat.
Drill	An operations-based exercise that is a coordinated, supervised activity employed to test an entity's EOP or a portion of an entity's EOP. A drill may be used to develop or test new policies or procedures or to practice and maintain current skills.
Emergency	A situation in which the known, potential consequences of a hazard or threat are sufficiently imminent and severe that an entity should take prompt action to prepare for and reduce the impact of harm that may result from the hazard or threat. The term includes an emergency declared by local, state, or federal government, or ERCOT or another reliability coordinator designated by the North American Electric Reliability Corporation and that is applicable to the entity.
Entity	An electric utility, transmission and distribution utility, PGC, municipally owned utility, electric cooperative, REP, or ERCOT.
Hazard	A natural, technological, or human-caused condition that is potentially dangerous or harmful to life, information, operations, the environment, or property, including a condition that is potentially harmful to the continuity of electric service.
Threat	The intention and capability of an individual or organization to harm life, information, operations, the environment, or property, including harm to the continuity of electric service.

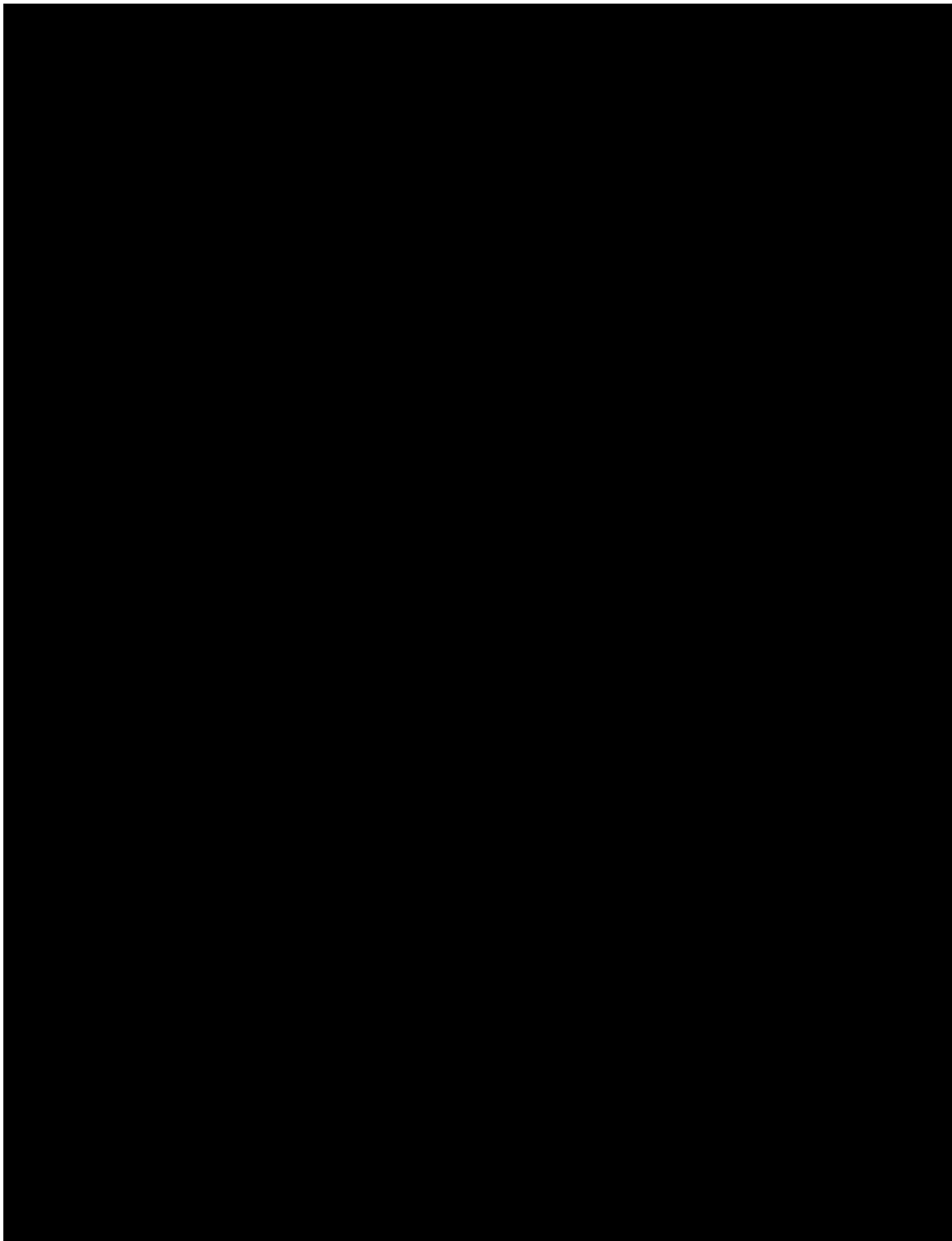




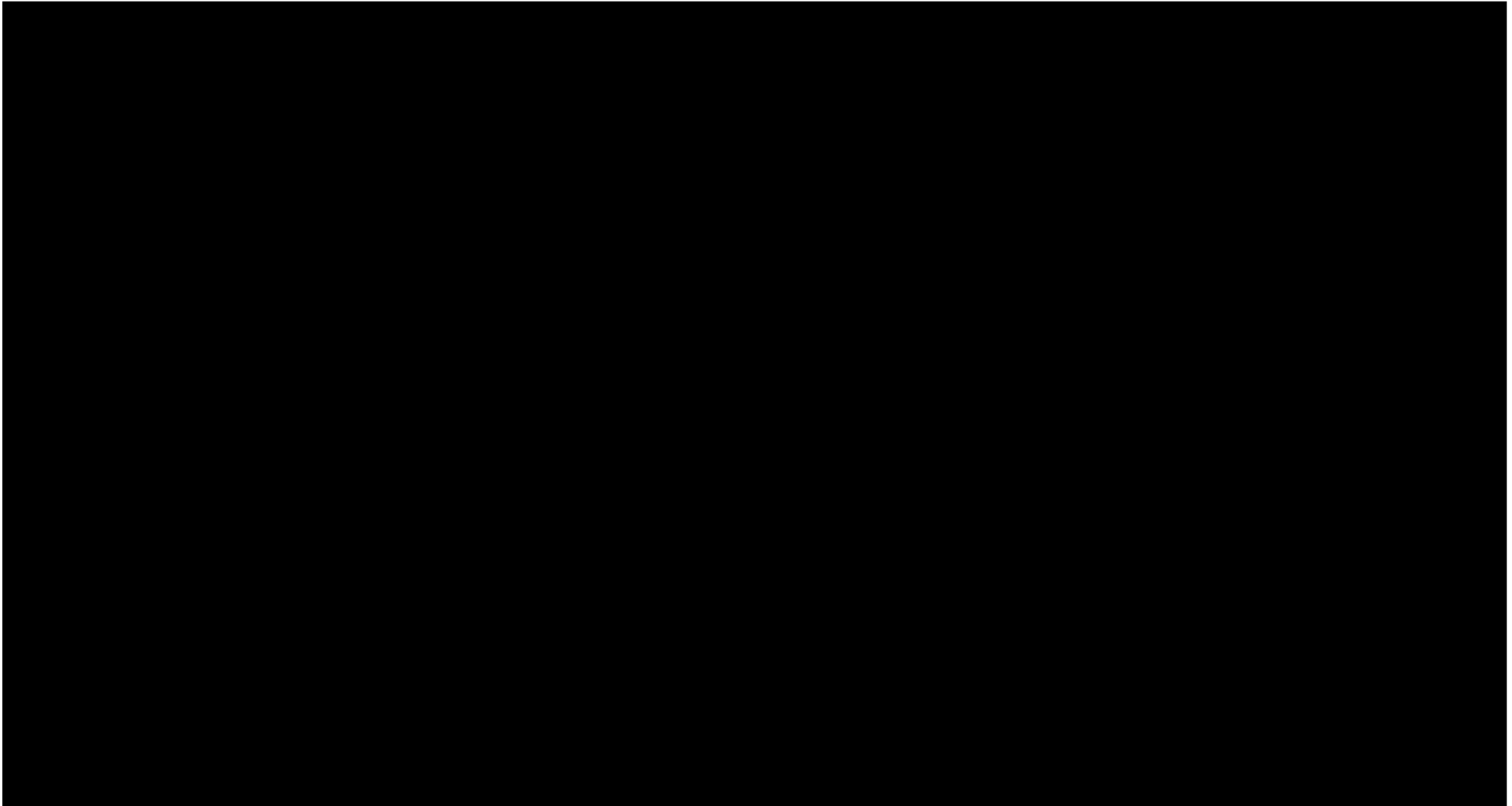


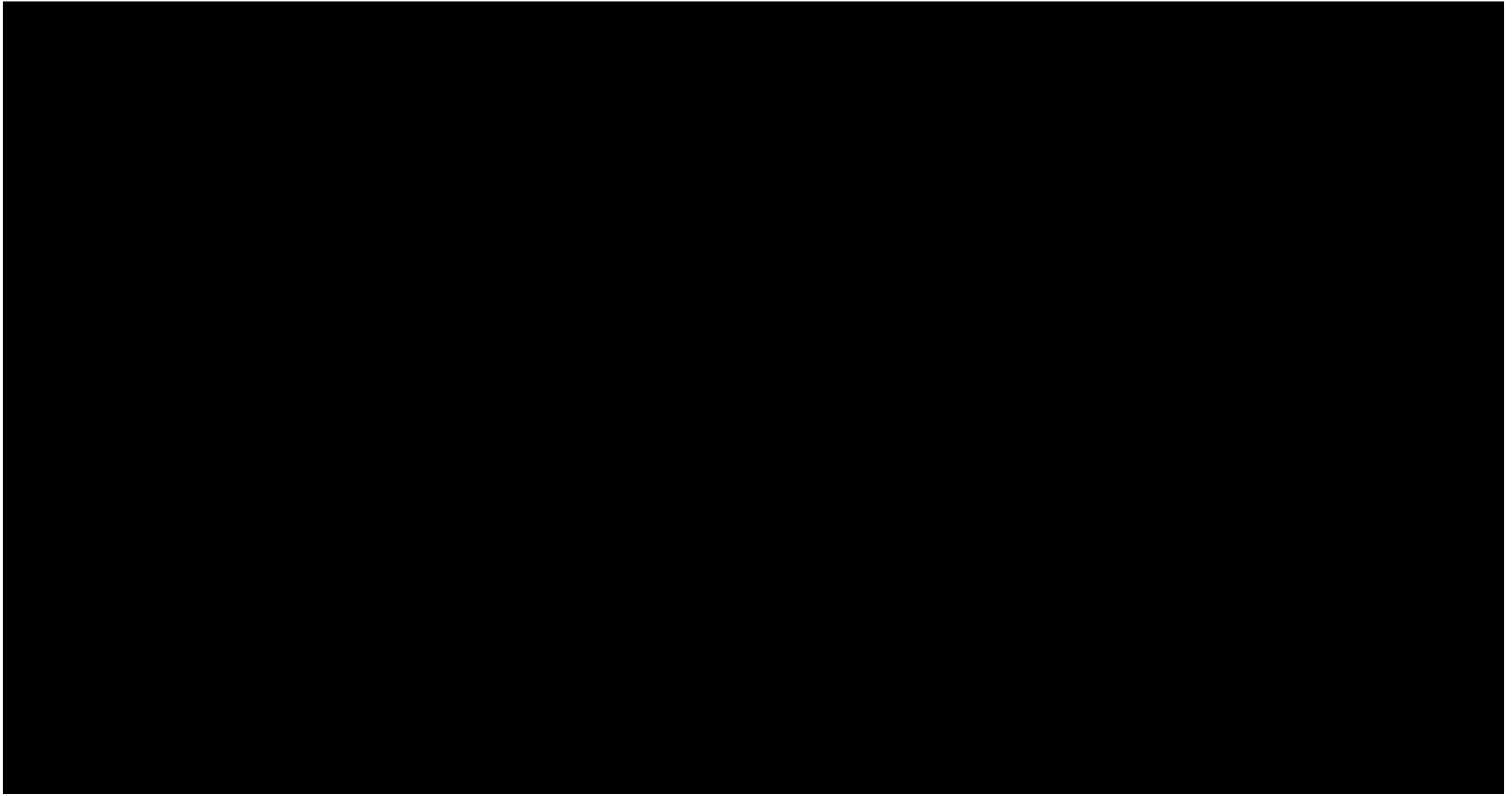












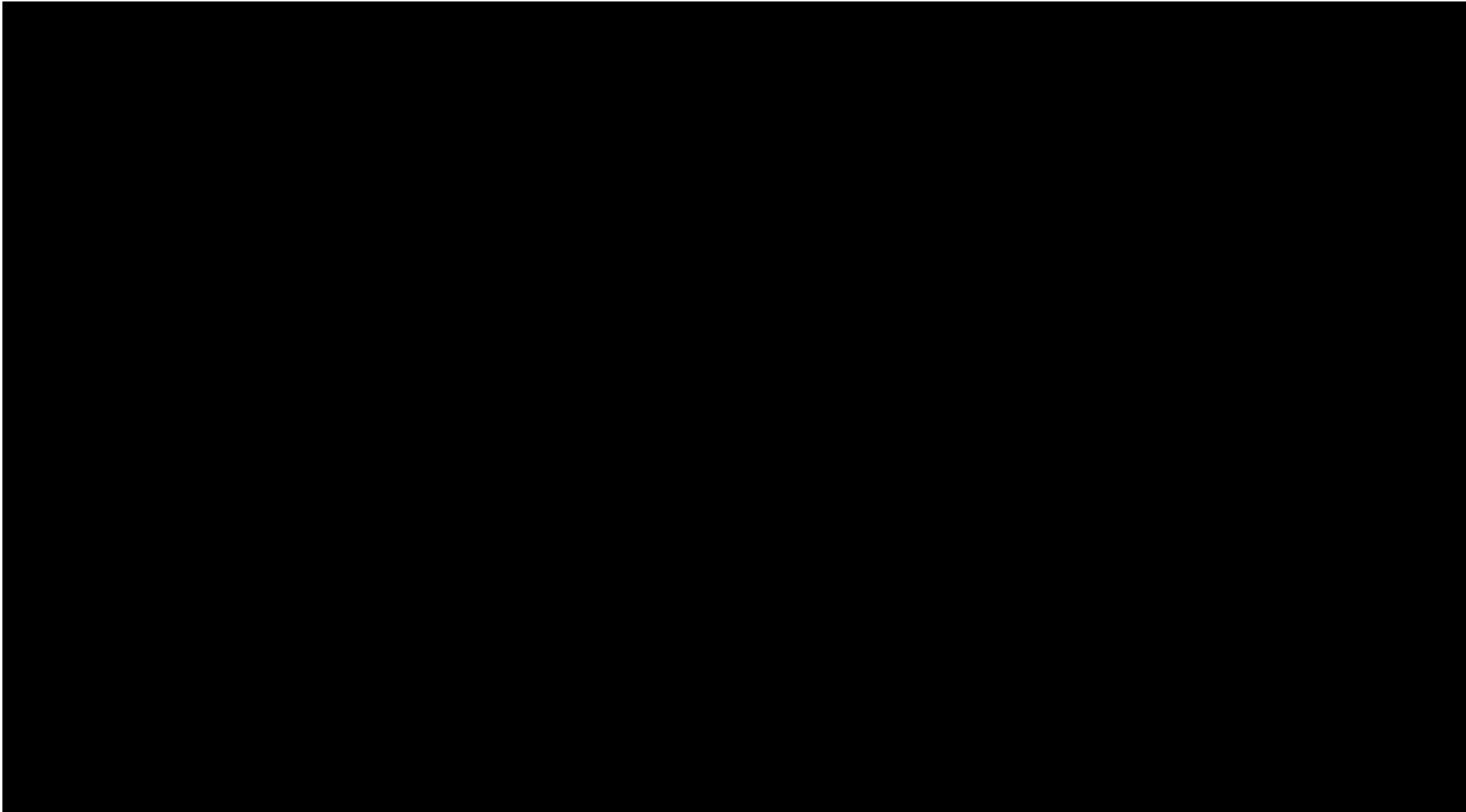


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1.0 APPROVAL AND IMPLEMENTATION SECTION

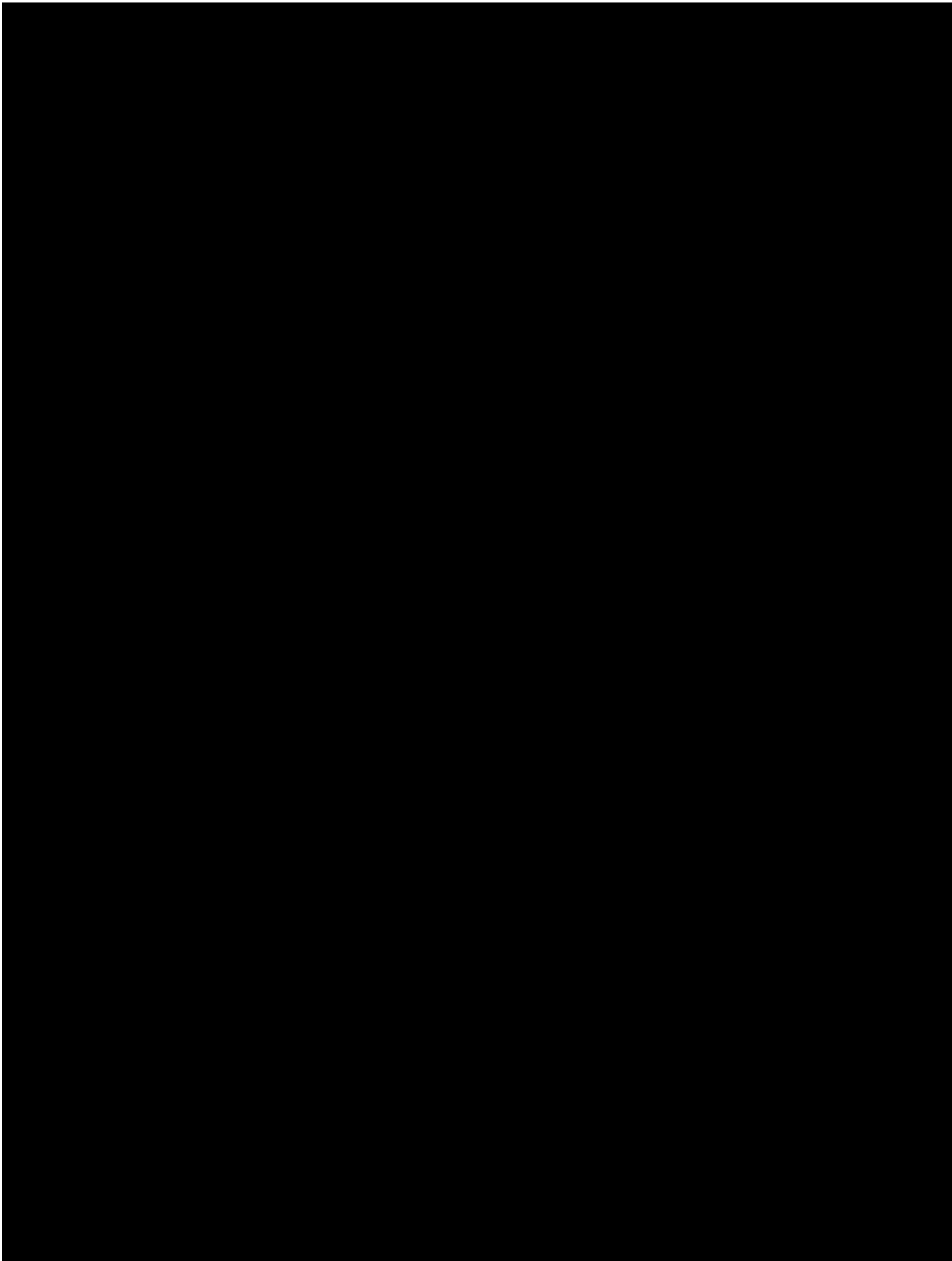
A. Introduction and Applicability

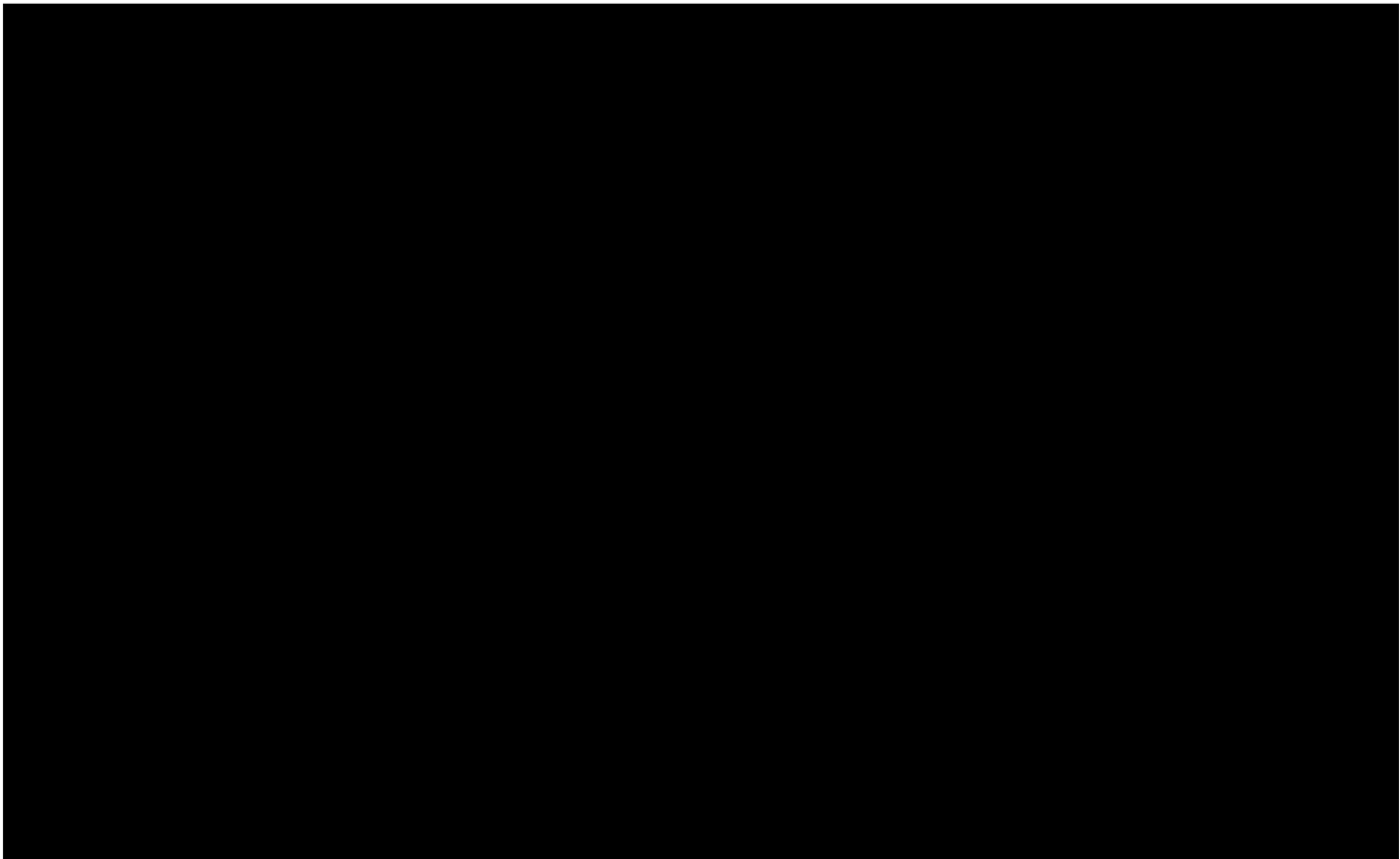
1.1 Introduction

This *Cold Weather Annex* provides guidance and direction for Rayos specific to cold weather operations, planning, and emergency response and includes plans for responding to a cold weather emergency and checklists for Rayos to use during a cold weather emergency that includes lessons learned from past weather emergencies to ensure that necessary supplies and personnel are available through the weather emergency.

Within this annex **and all other EOP documents**, the use of “EOP” refers to the entire suite of documents that address the PUCT requirements, which includes relevant Annexes, as listed in the Resources and Related References section.

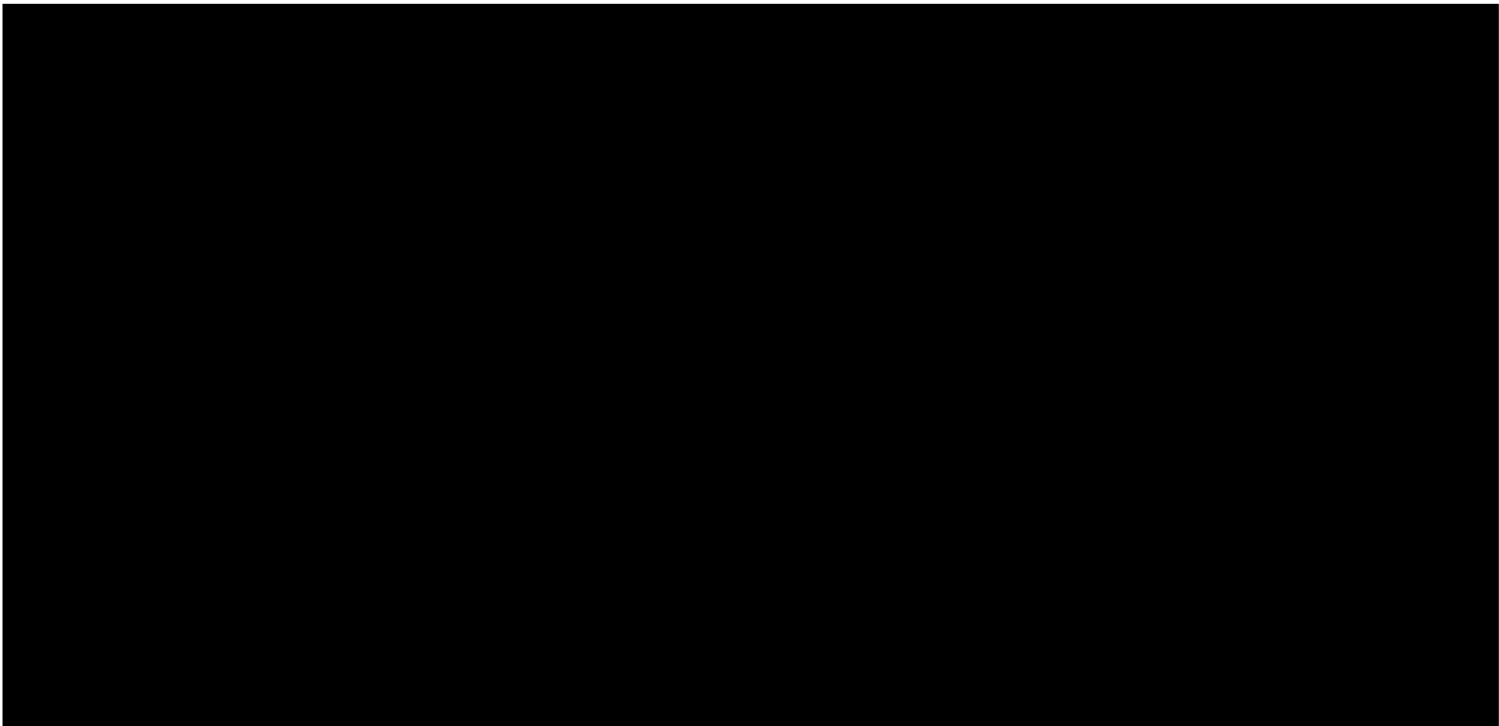
Any questions regarding the EOP should be directed to the Compliance Manager.

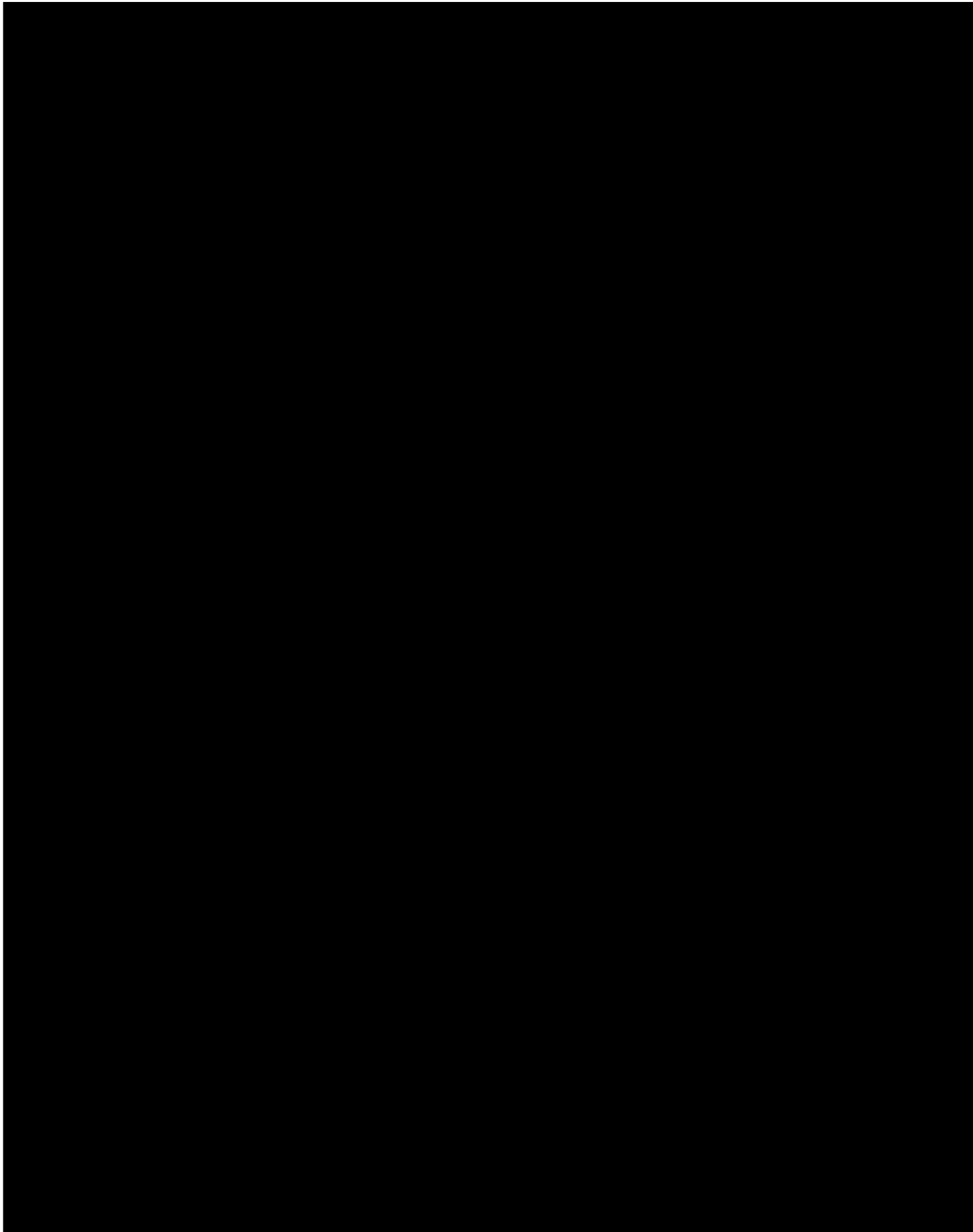


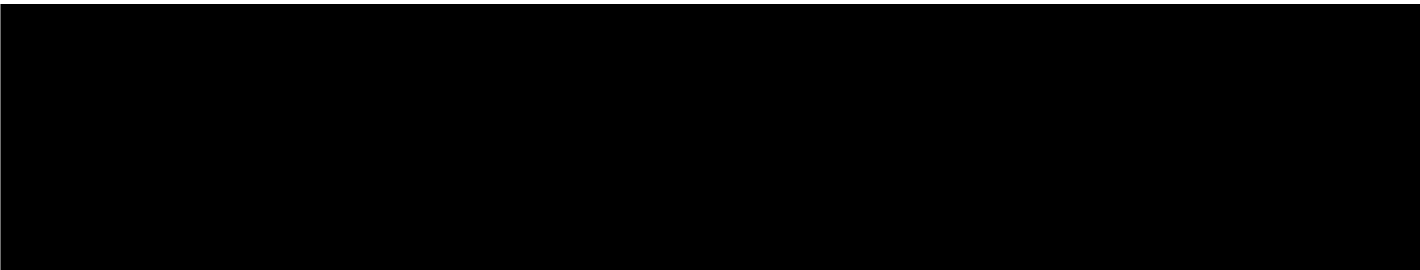
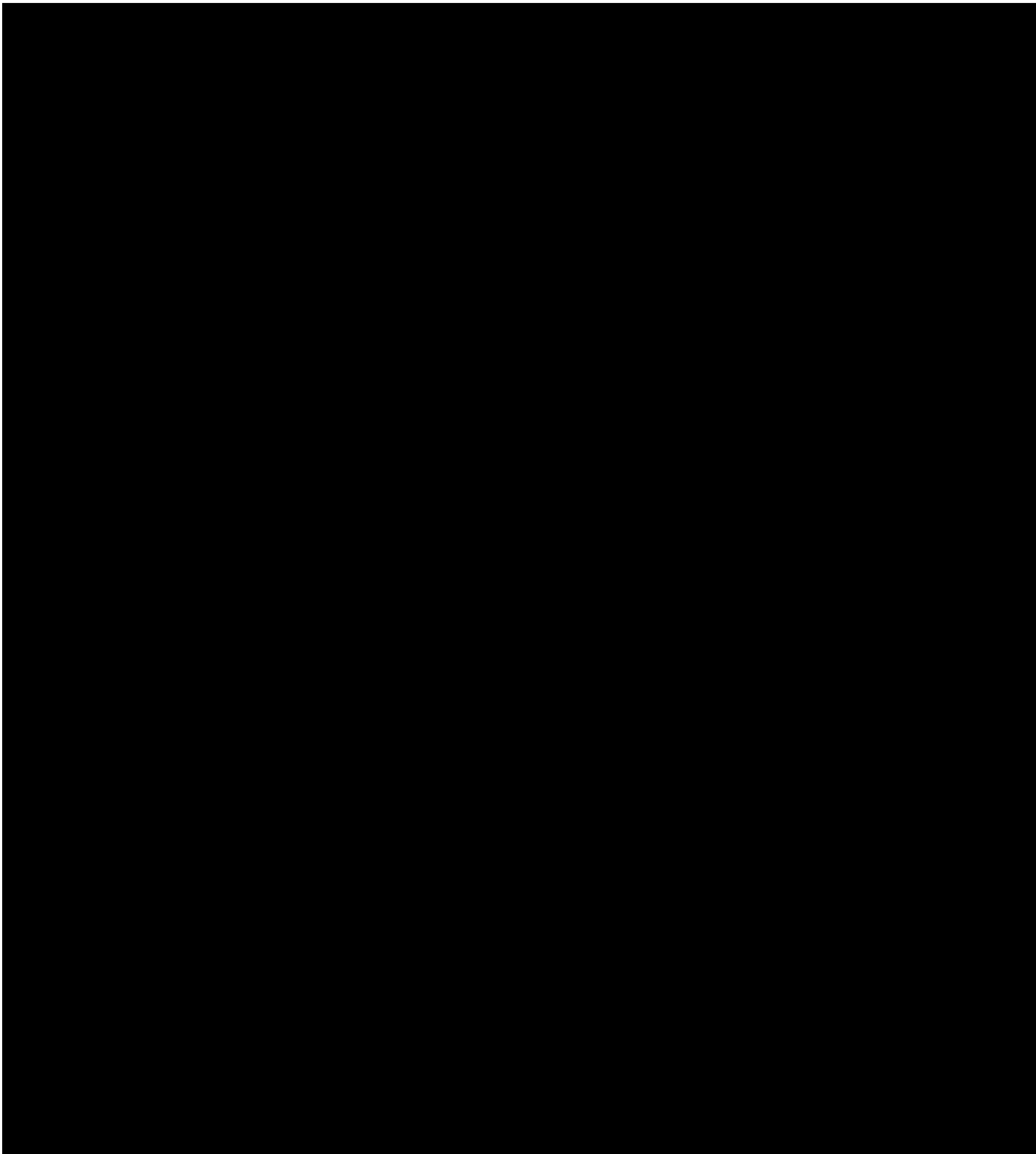


2.0 LOCAL CONDITIONS

For comparison, at the Valley International Airport Station located in Harlingen (~20 miles from La Feria), the recorded temperatures for winter 2021 (November through February) range from an average minimum temperature of 47.32°F (February 2022)¹ to an average maximum temperature of 80.39°F (December),² with a low of 30°F recorded in February 2022.







7.0 COLD-RELATED SAFETY INFORMATION

7.1 Personnel Safety

Personnel safety during extreme cold weather events is a priority. The information in this section is aimed at reducing or preventing Personnel weather-related risks.

Rayos Personnel will stay informed of potential severe weather events and utilize the information in this annex to respond. Job safety briefings will be conducted as needed during preparation for and in response to extreme cold weather events.

7.2 Frostbite

Frostbite is most common on the fingers, toes, nose, ears, cheeks, and chin. Because of skin numbness, you may not realize you have frostbite until someone else points it out.

7.2.1 Signs and symptoms of frostbite include:

- At first, cold skin and a prickling feeling
- Numbness
- Red, white, bluish-white, or grayish-yellow skin
- Hard or waxy-looking skin
- Clumsiness due to joint and muscle stiffness
- Blistering after rewarming, in severe cases

7.2.2 Seek medical attention if you experience:

- Signs and symptoms of superficial or deep frostbite

Rayos del Sol Solar Project, LLC – Cold Weather Annex, Version #1.0

- Increased pain, swelling, redness or discharge in the area that was frostbitten
- Fever
- New, unexplained symptoms.

7.3 Hypothermia

Seek immediate medical attention if you suspect hypothermia, a condition in which your body loses heat faster than it can be produced.

7.3.1 Signs of hypothermia include:

- Intense shivering
- Slurred speech
- Drowsiness and loss of coordination

7.4 Safety Procedures

7.4.1 During extreme cold weather events, facility Personnel should adhere to the following procedures.

7.4.1.1 Limit your time outdoors in cold, wet, or windy weather.

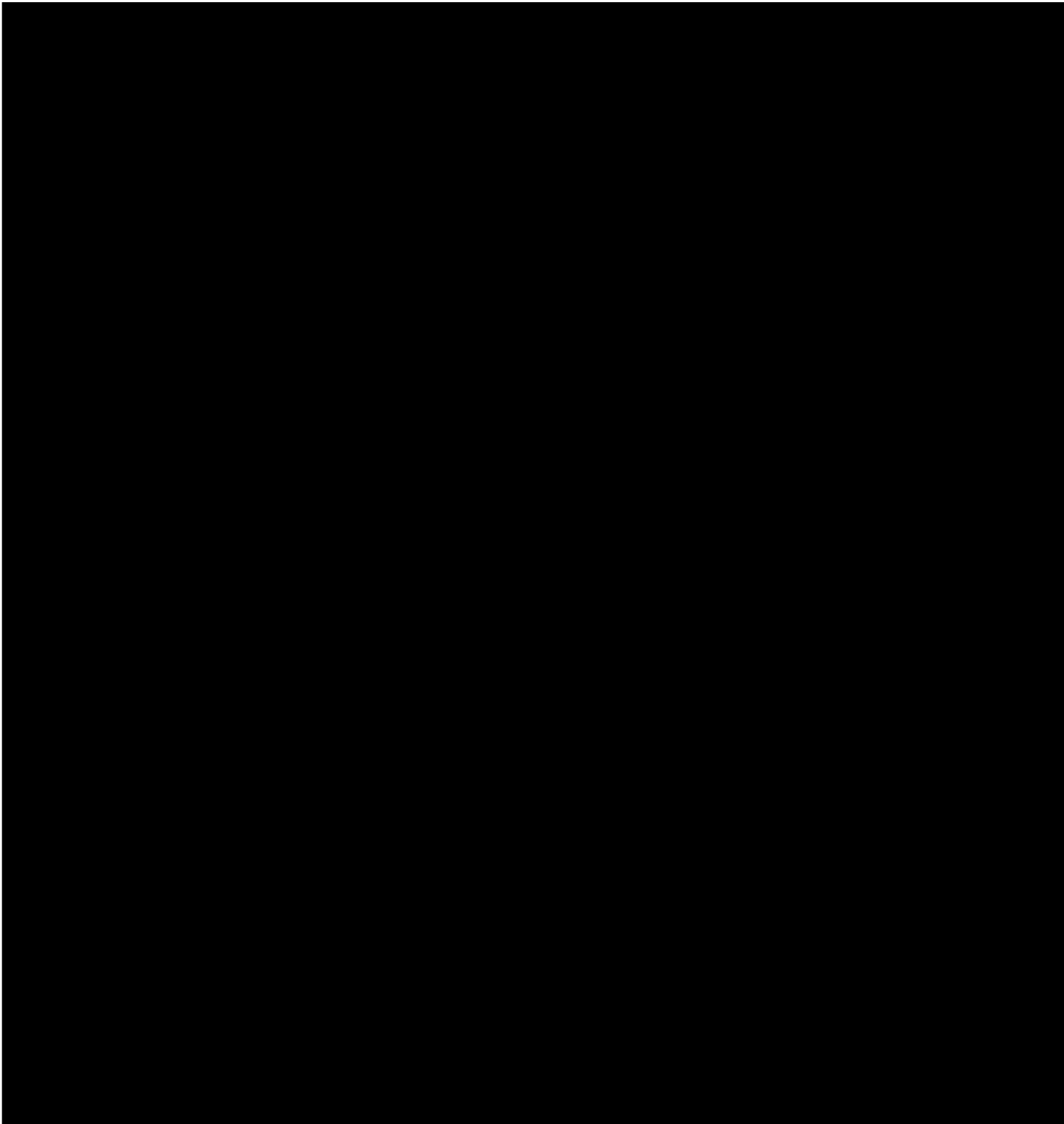
7.4.1.2 Dress in multiple layers of loose, warm clothing, along with using Personal Protective Equipment (PPE), as needed.

7.4.1.3 Change out of wet clothing as soon as possible.

7.4.1.4 Wear a hat or headband that fully covers your ears.

7.4.1.5 Wear socks and sock liners that fit well, wick moisture, and provide insulation.

7.4.1.6 Seek medical care immediately if you or a co-worker shows symptoms of cold weather-related illness.



10.0 ERCOT ANNUAL WINTER WEATHER DECLARATION SUBMITTAL

10.1 ERCOT Requirement for Annual Winter Weatherization Declaration Submittal

10.1.1 Rayos must submit a declaration between **November 1 and December 1** that it has completed or will complete all weather preparations required by this annex

Rayos del Sol Solar Project, LLC – Cold Weather Annex, Version #1.0

for equipment critical to the reliable operation of the Generation Resource during the winter time period (December through February).

10.1.1.1 If the work on the equipment that is critical to the reliable operation of the Generation Resource is not complete at the time of filing the declaration, the Resource Entity shall provide a list and schedule of remaining work to be completed. The declaration shall be executed by an officer or executive with authority to bind the Resource Entity.

10.1.2 Rayos will follow all other requirements in ERCOT Protocols 3.21(3) concerning the submission of the declaration, as applicable.

11.0 RESOURCES AND RELATED DOCUMENTS

Rayos Emergency Operations Plan

Rayos Hurricane Annex

Rayos Hot Weather Annex

Rayos Cyber and Physical Security Incident Annex

Rayos Pandemic and Epidemic Annex

ERCOT

Current Protocols - Nodal: <http://www.ercot.com/mktrules/nprotocols/current>

- Section 3: Management Activities for the ERCOT System
- Section 22 Attachment O: Declaration of Completion of Generation Resource Winter Weatherization Preparations

PUCT

Electric Substantive Rules: Chapter 25 Rules webpage:

<https://www.puc.texas.gov/agency/rulesnlaws/subrules/electric/Electric.aspx>

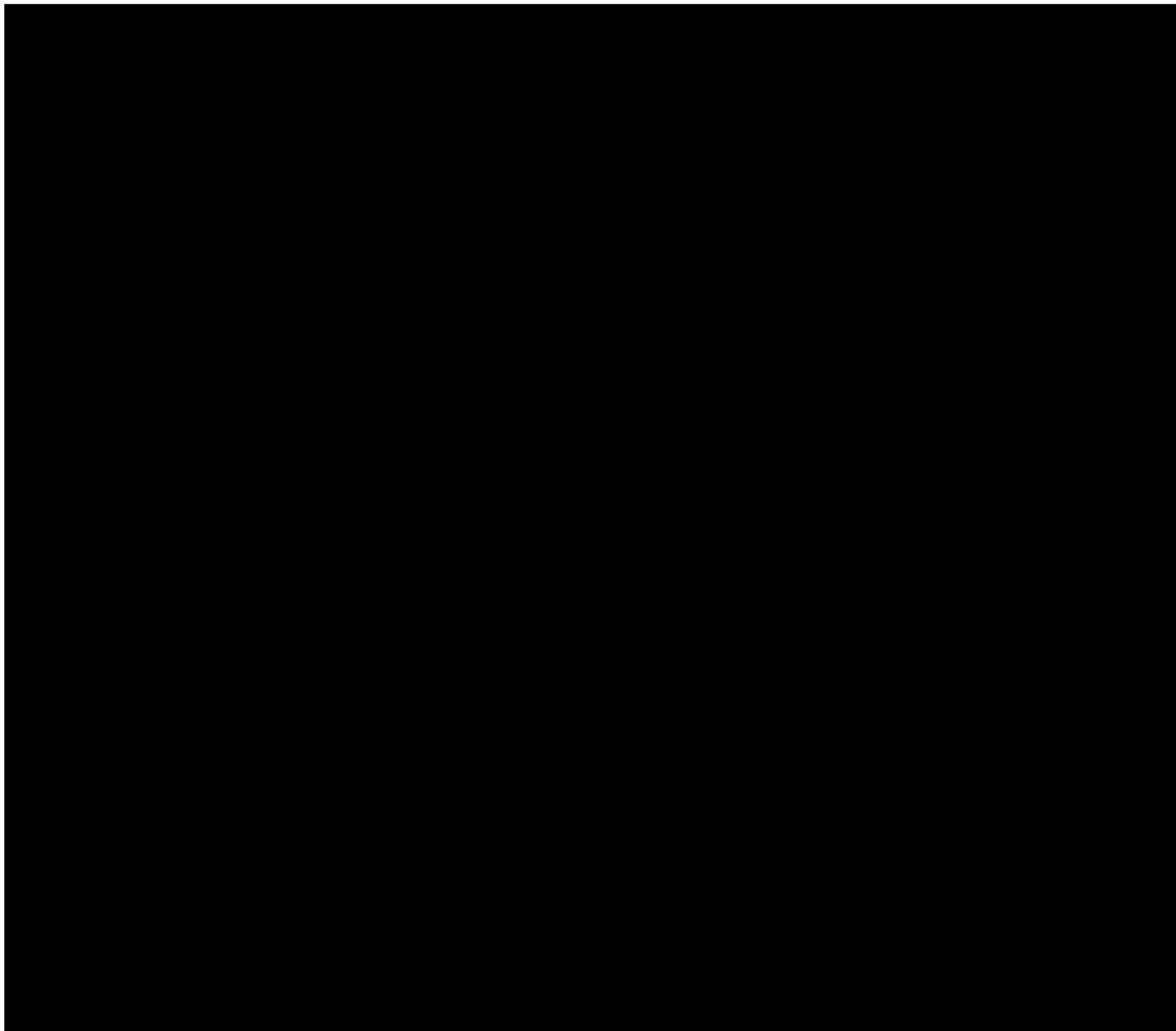
- Subchapter C, §25.53 - Electric Service Emergency Operations Plans

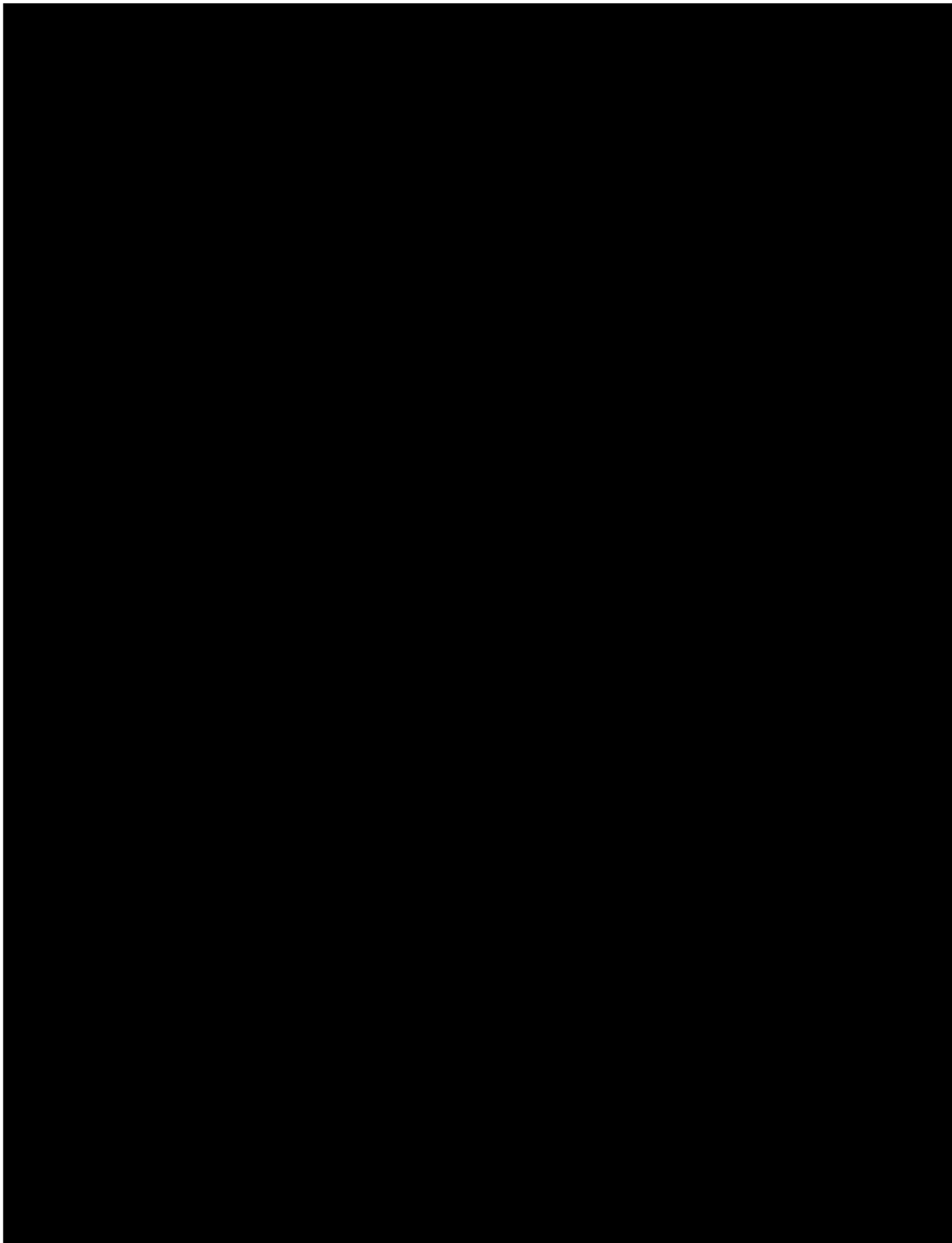
12.0 SECTION 25.53 DEFINITIONS

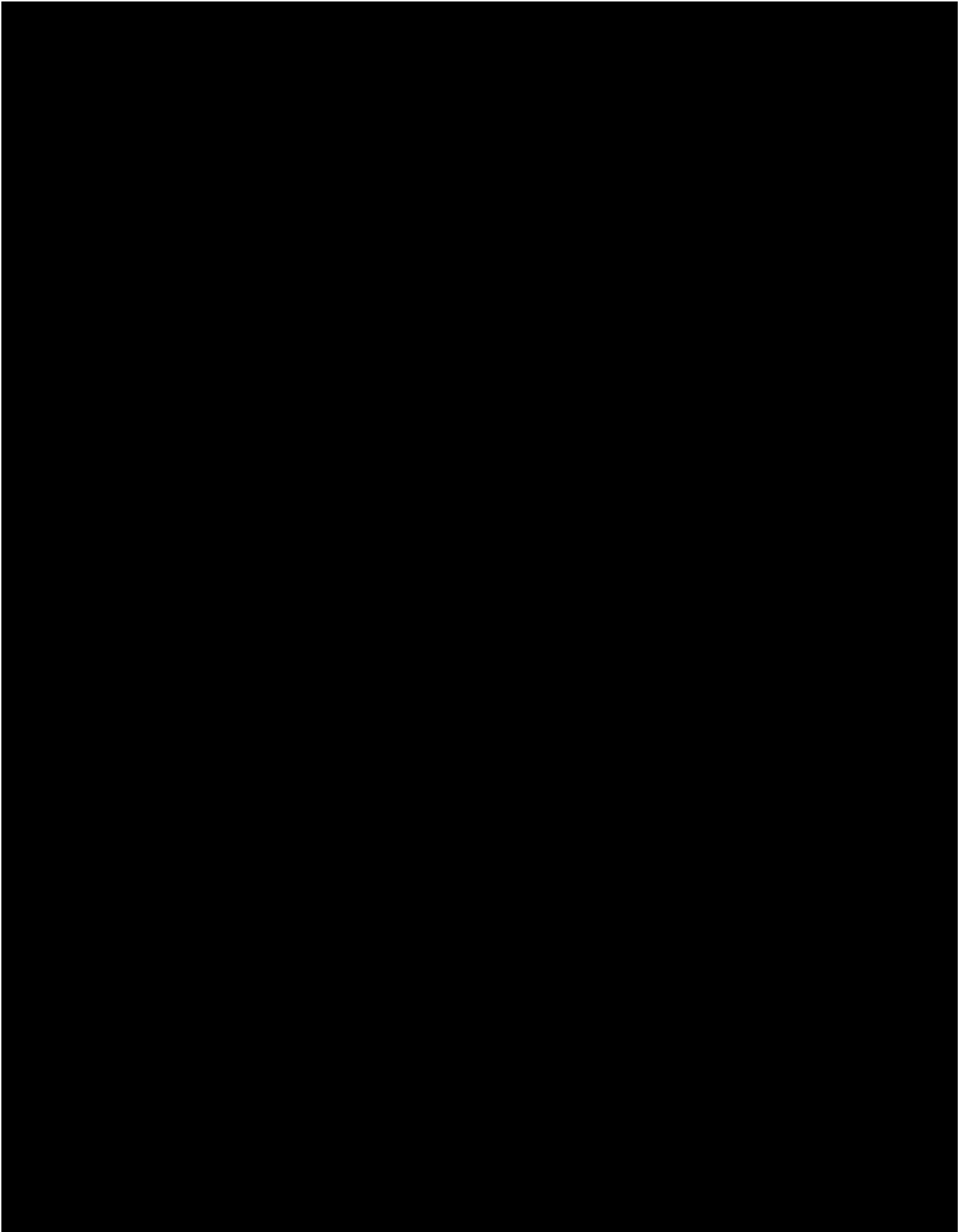
Term	Definition
Annex	A section of an emergency operations plan that addresses how an entity plans to respond in an emergency involving a specified type of hazard or threat.

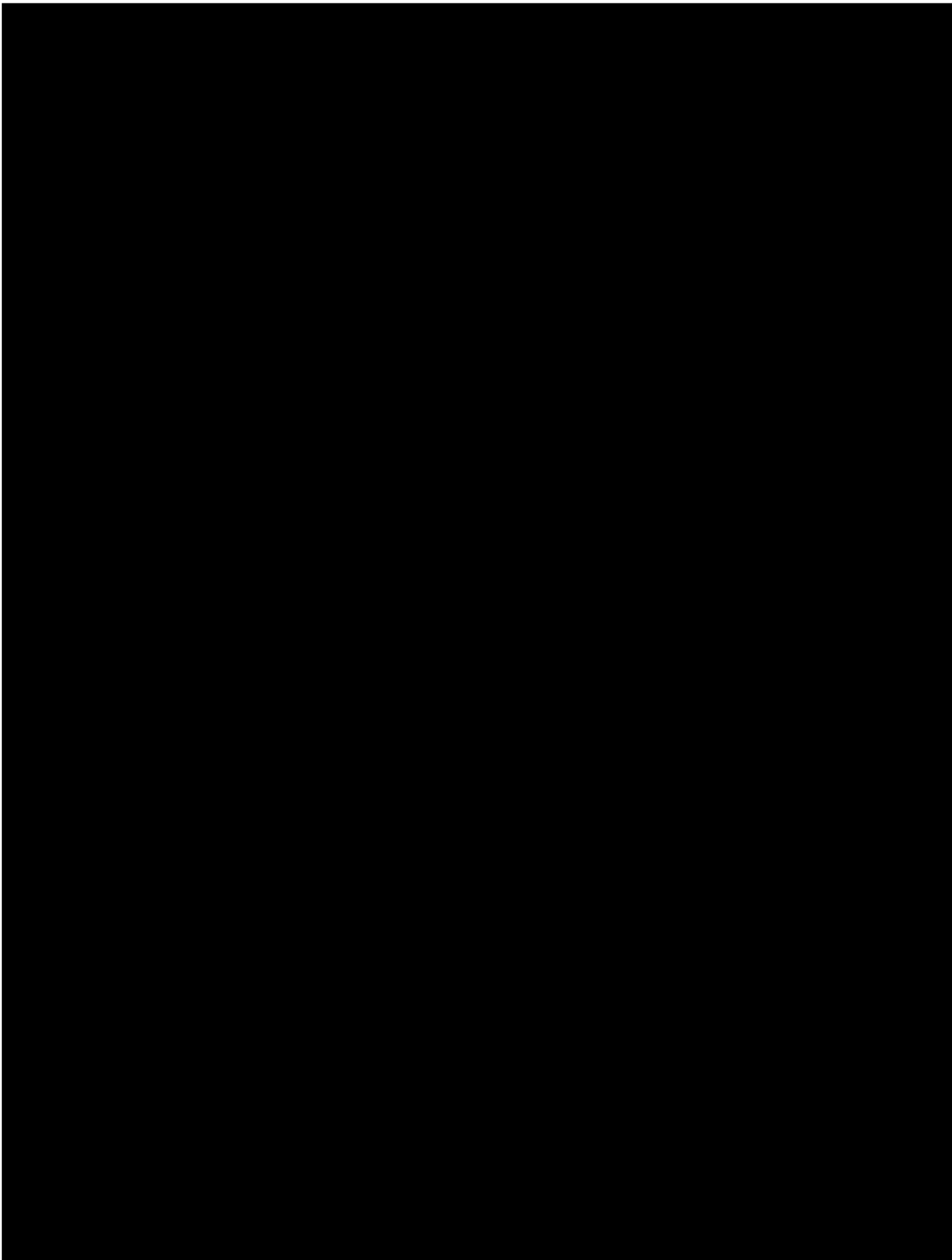
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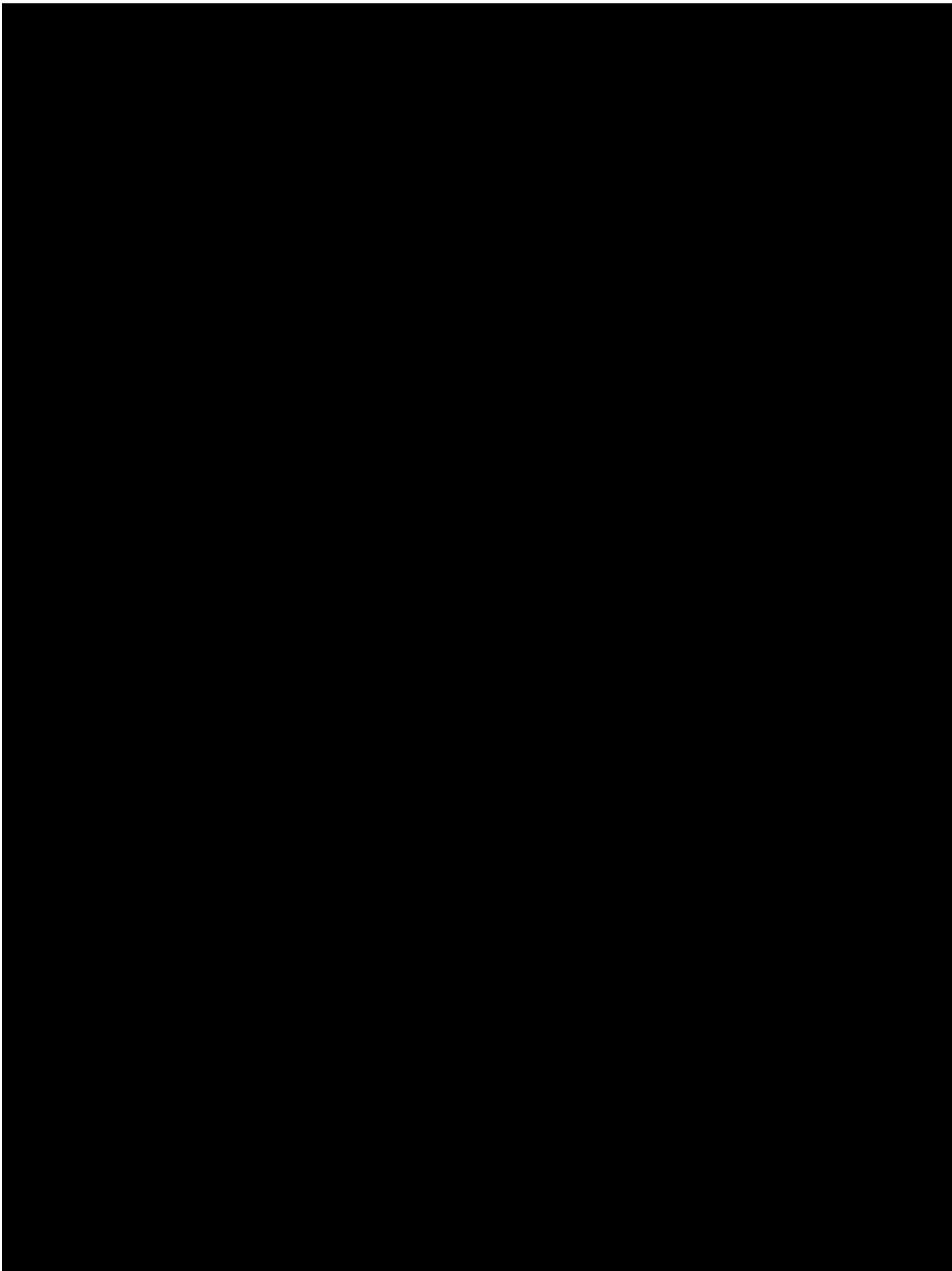
Term	Definition
Drill	An operations-based exercise that is a coordinated, supervised activity employed to test an entity’s EOP or a portion of an entity’s EOP . A drill may be used to develop or test new policies or procedures or to practice and maintain current skills.
Emergency	A situation in which the known, potential consequences of a hazard or threat are sufficiently imminent and severe that an entity should take prompt action to prepare for and reduce the impact of harm that may result from the hazard or threat. The term includes an emergency declared by local, state, or federal government, or ERCOT or another reliability coordinator designated by the North American Electric Reliability Corporation and that is applicable to the entity.
Entity	An electric utility, transmission and distribution utility, PGC, municipally owned utility, electric cooperative, REP, or ERCOT.
Hazard	A natural, technological, or human-caused condition that is potentially dangerous or harmful to life, information, operations, the environment, or property, including a condition that is potentially harmful to the continuity of electric service.
Threat	The intention and capability of an individual or organization to harm life, information, operations, the environment, or property, including harm to the continuity of electric service.

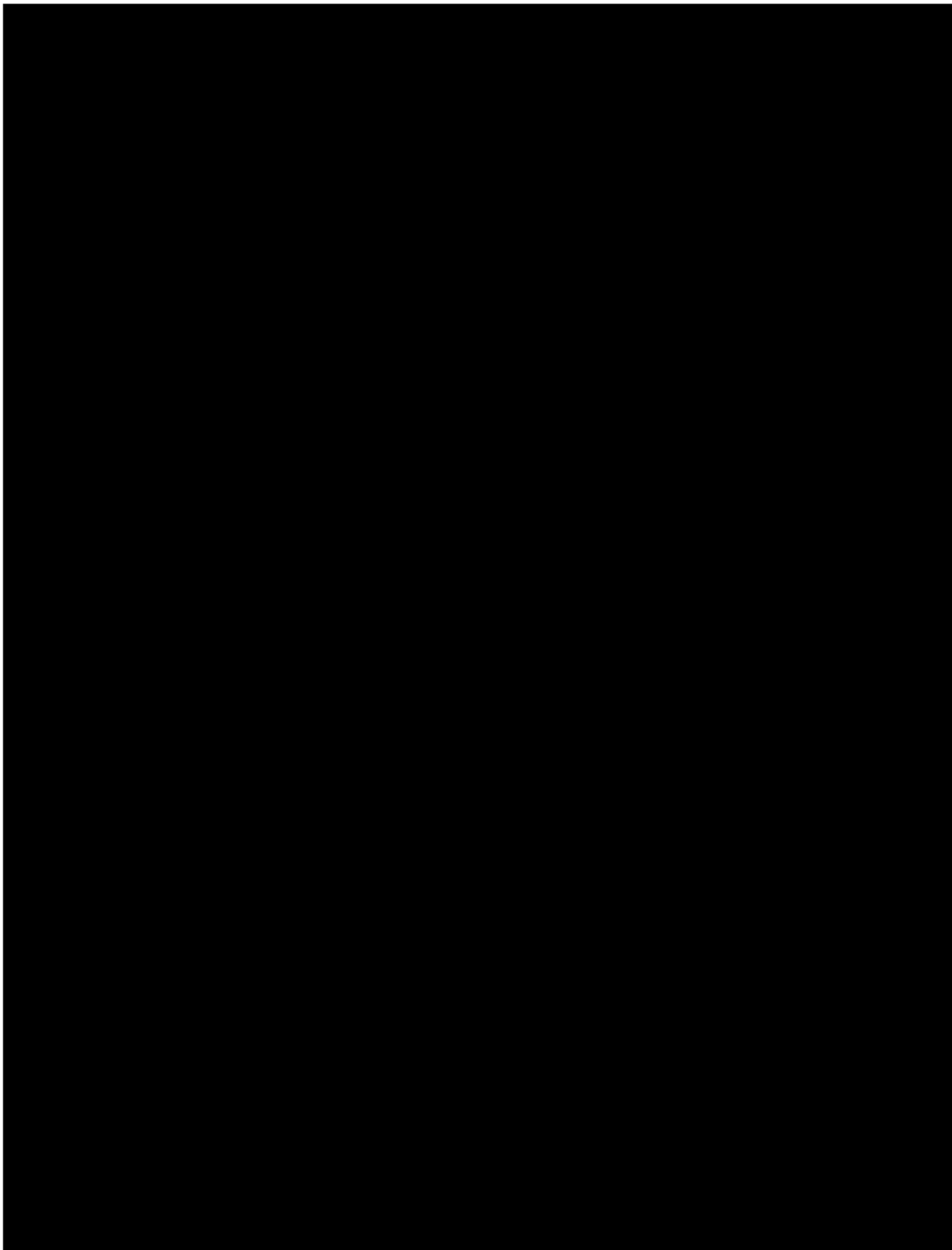


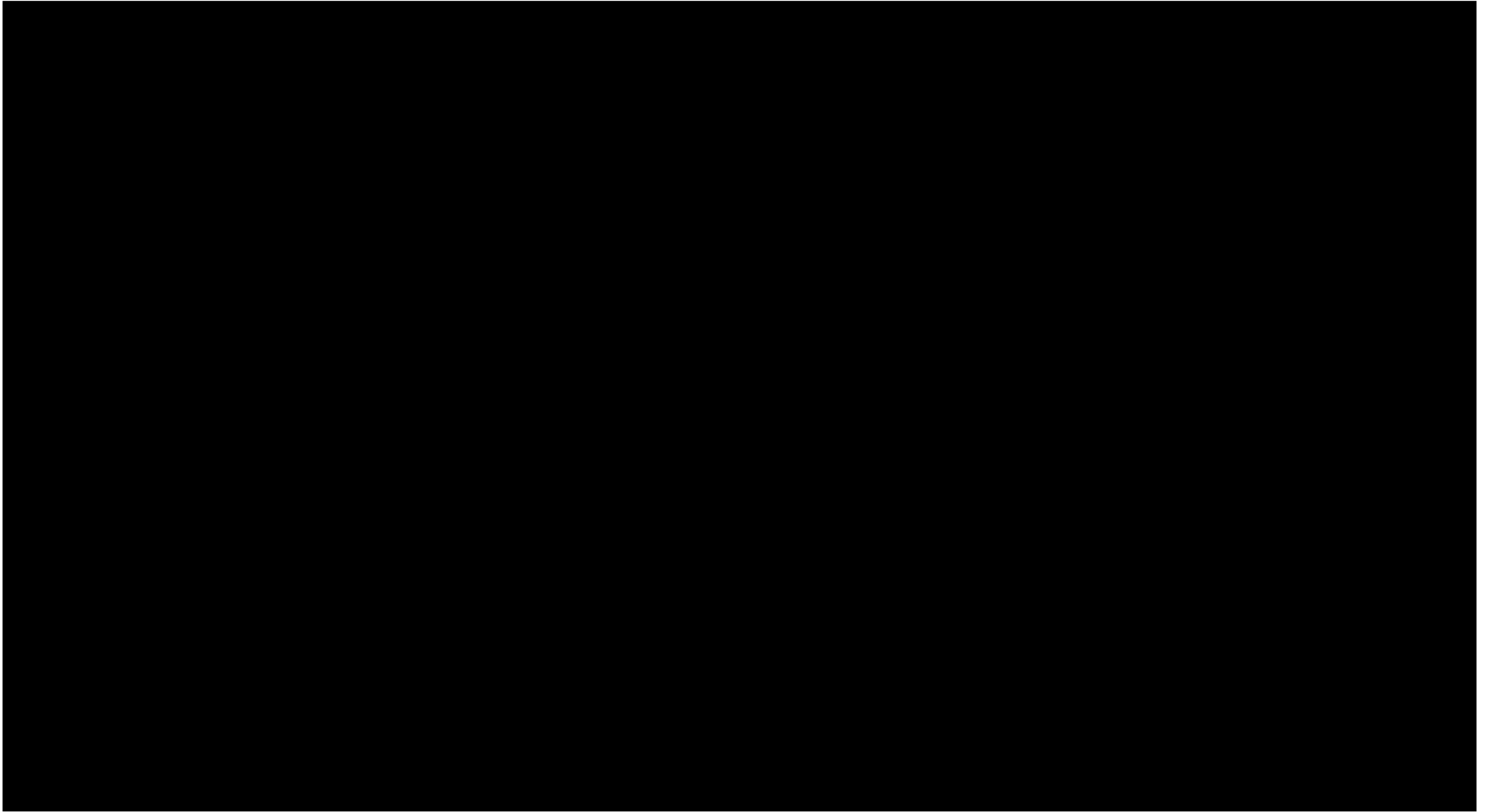


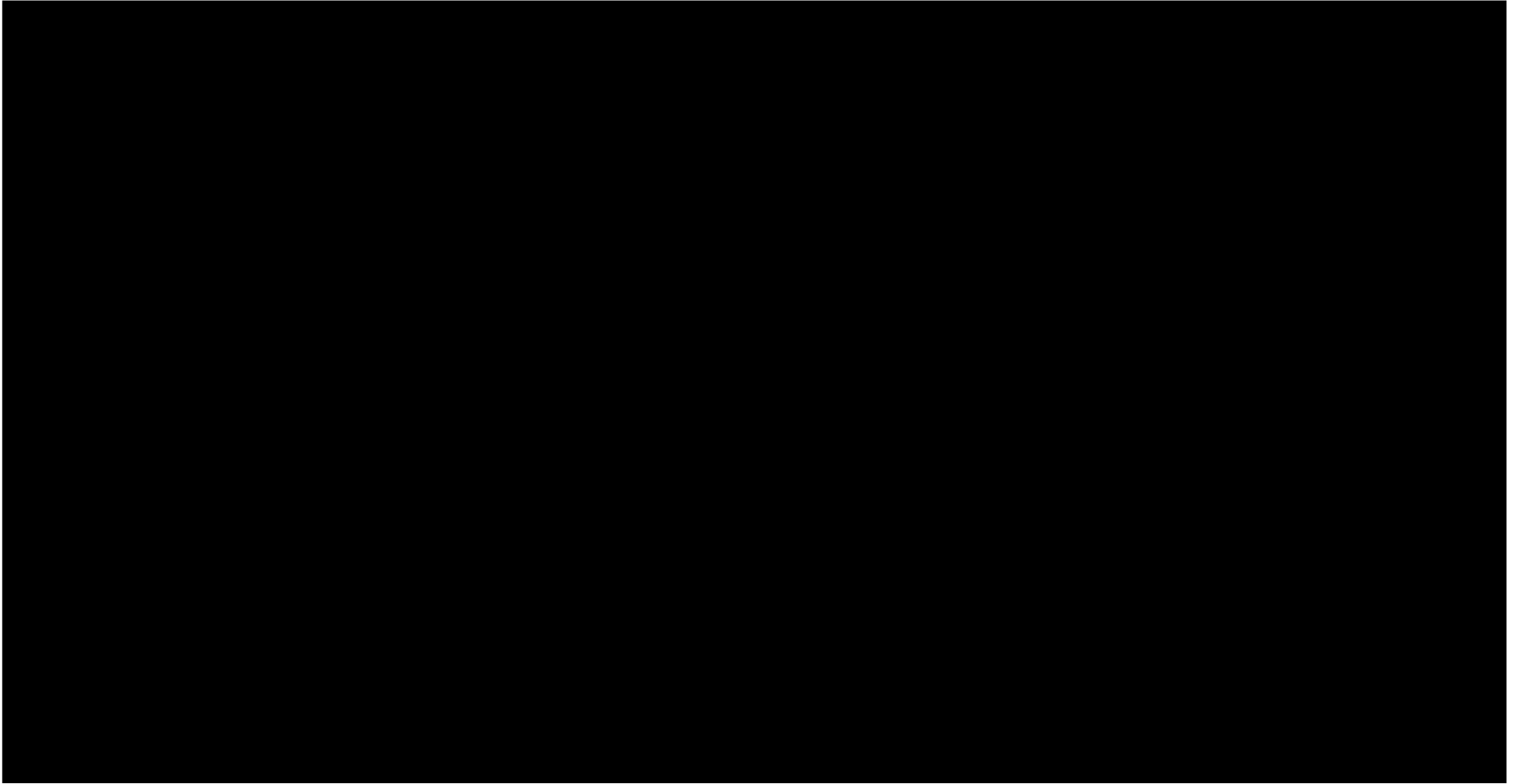


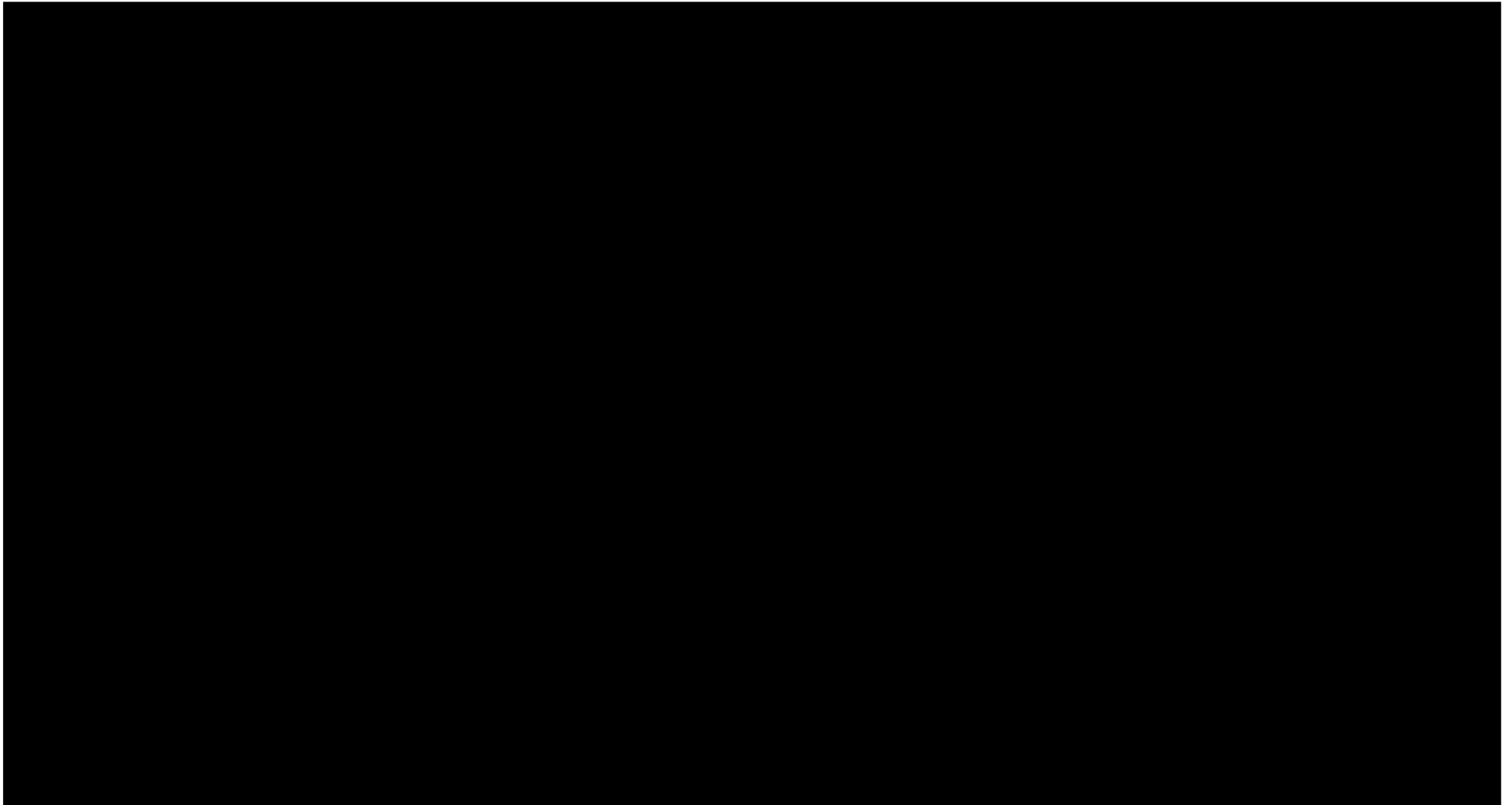












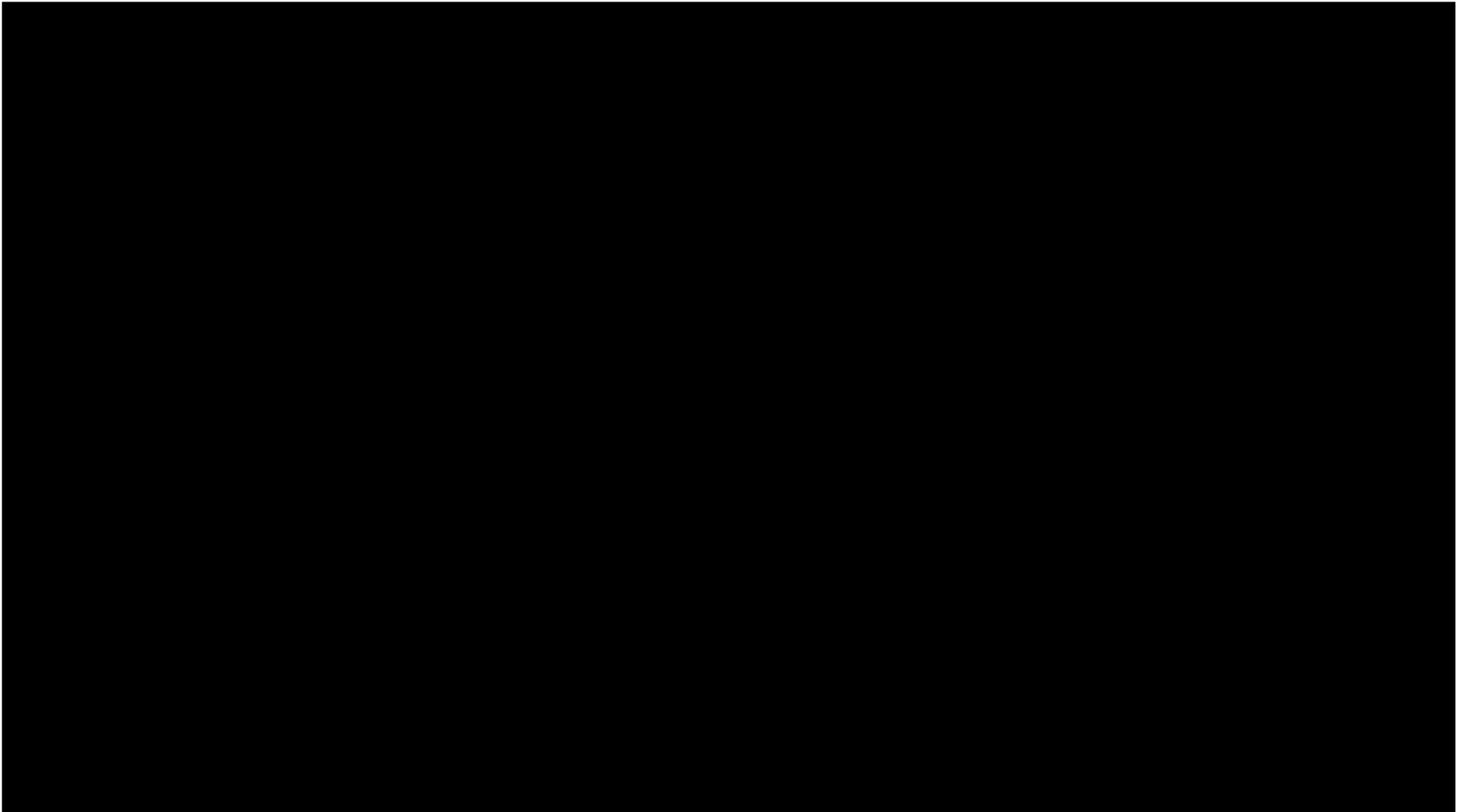


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1.0 APPROVAL AND IMPLEMENTATION SECTION

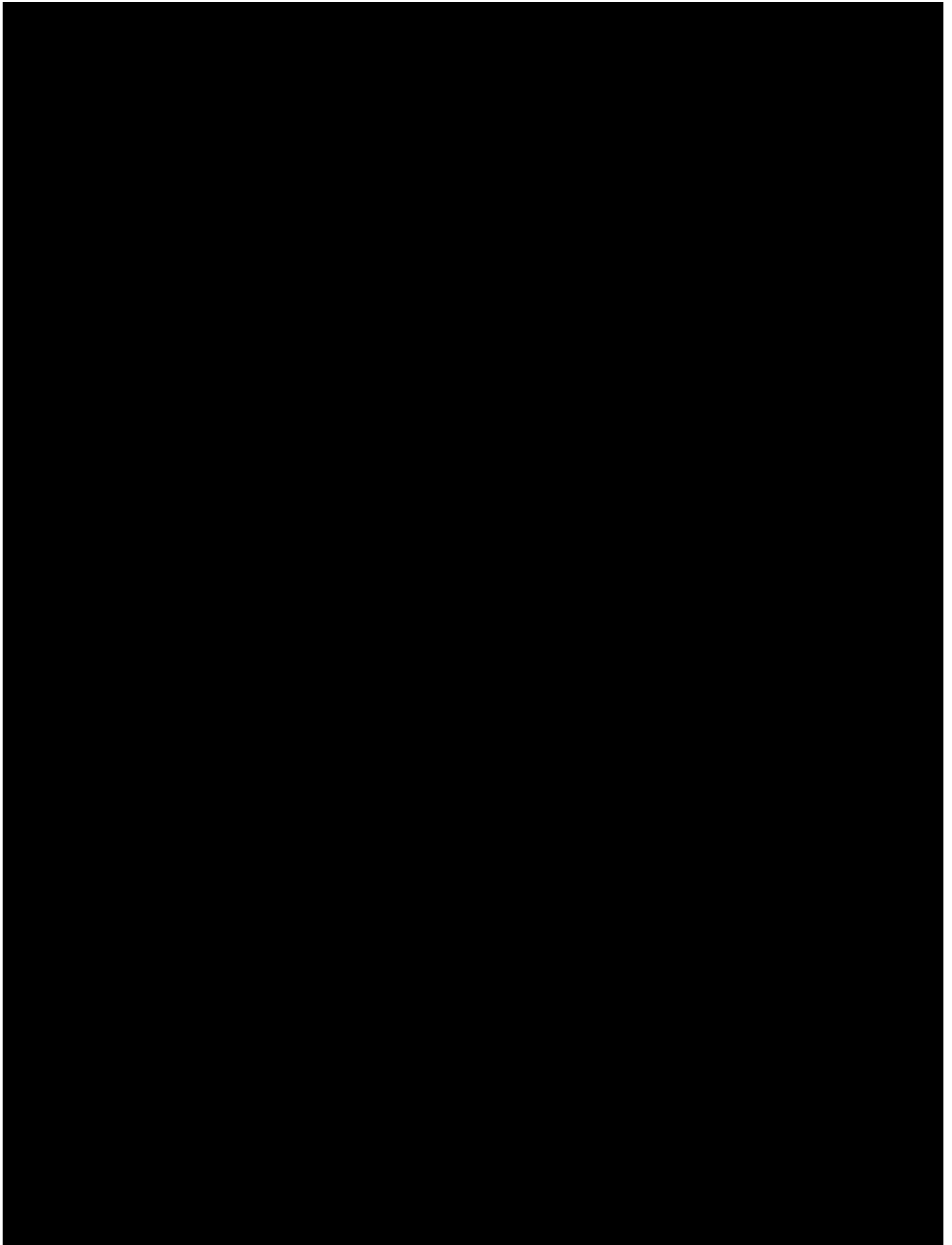
Introduction and Applicability

1.1 Introduction

This *Hurricane Annex* provides guidance and direction for Rayos specific to the preparation for hurricane and tropical storm events, and post storm return to normal operations (as required) response. This annex shall be used in conjunction with the *Hot Weather Annex* and the *Cold Weather Annex*.

Within this annex and all other EOP documents, the use of “EOP” refers to the entire suite of documents that address the PUCT requirements, which includes relevant annexes, as listed in the Resources and Related References section.

Any questions regarding the EOP should be directed to the Compliance Manager.



2.0 LOCAL CONDITIONS

2.1 Local Conditions

The City of La Feria is located in western Cameron County, at the intersection of U.S. Highway 83 and Far Road 506. It is 24-miles northwest of Brownsville, and is part of the Brownsville-Harlingen-Raymondville and the Matamoros-Brownsville metropolitan areas. Cameron County is the southernmost county in the state of Texas. To the east, the county borders the Gulf of Mexico; Willacy County is located to the north, while Hidalgo County is located to the west; the Matamoros Municipality, Tamaulipas, Mexico borders the county to the south.¹ The City of La Feria *Hazard Mitigation Plan* (HMAP) includes a hazard risk ranking, which lists the risk from hurricane as **frequency: likely; potential severity: substantial; and ranking: high**. The Rayos facility is located squarely within hurricane risk area to experience Category 4 and 5 hurricanes.

[continued on next page]

¹ City of La Feria *Hazard Mitigation Plan*, Background, Page 9

Table from: City of La Feria Hazard Mitigation Plan

SECTION 4: RISK OVERVIEW

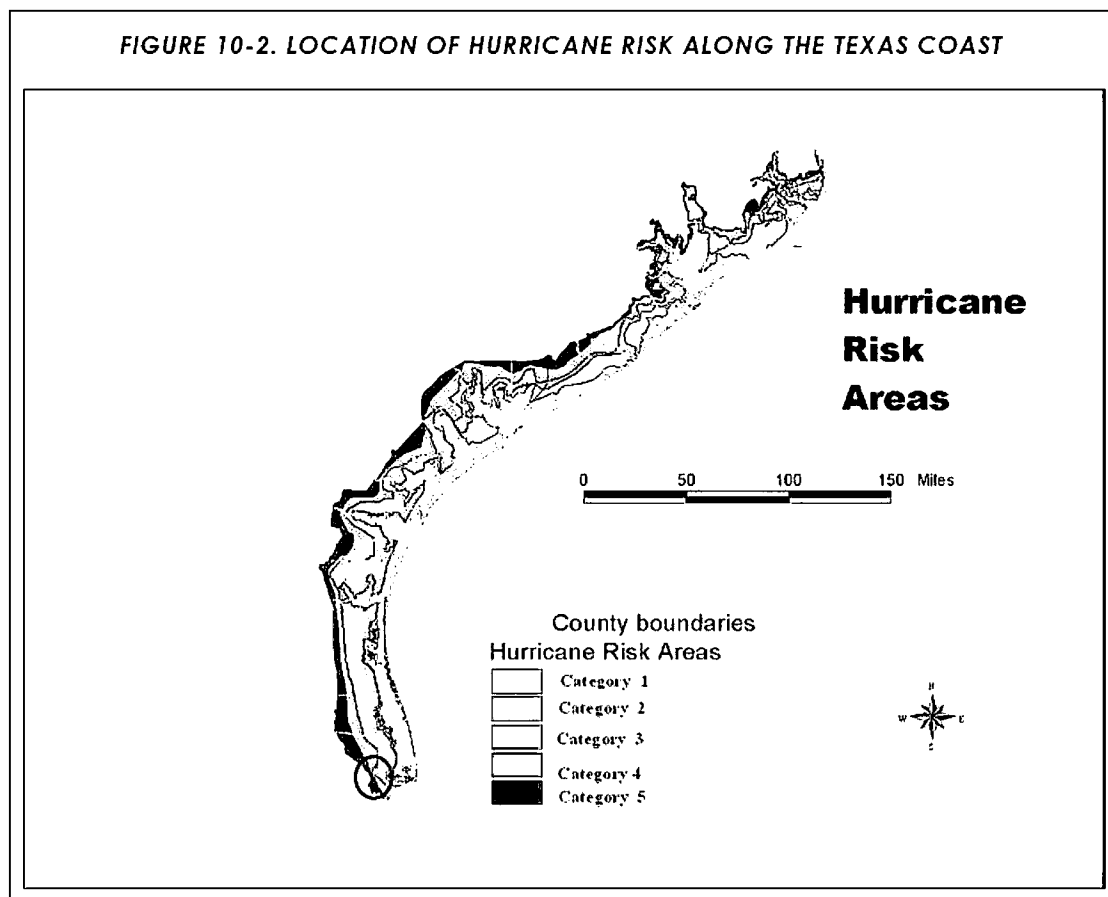
HAZARD RANKING

Table 4-5 portrays the results of the planning area's self-assessment for hazard ranking, based on the preliminary results of the risk assessment presented at the Risk Assessment Workshop. This table also takes into account local knowledge regarding frequency of occurrence and the potential impact of each hazard.

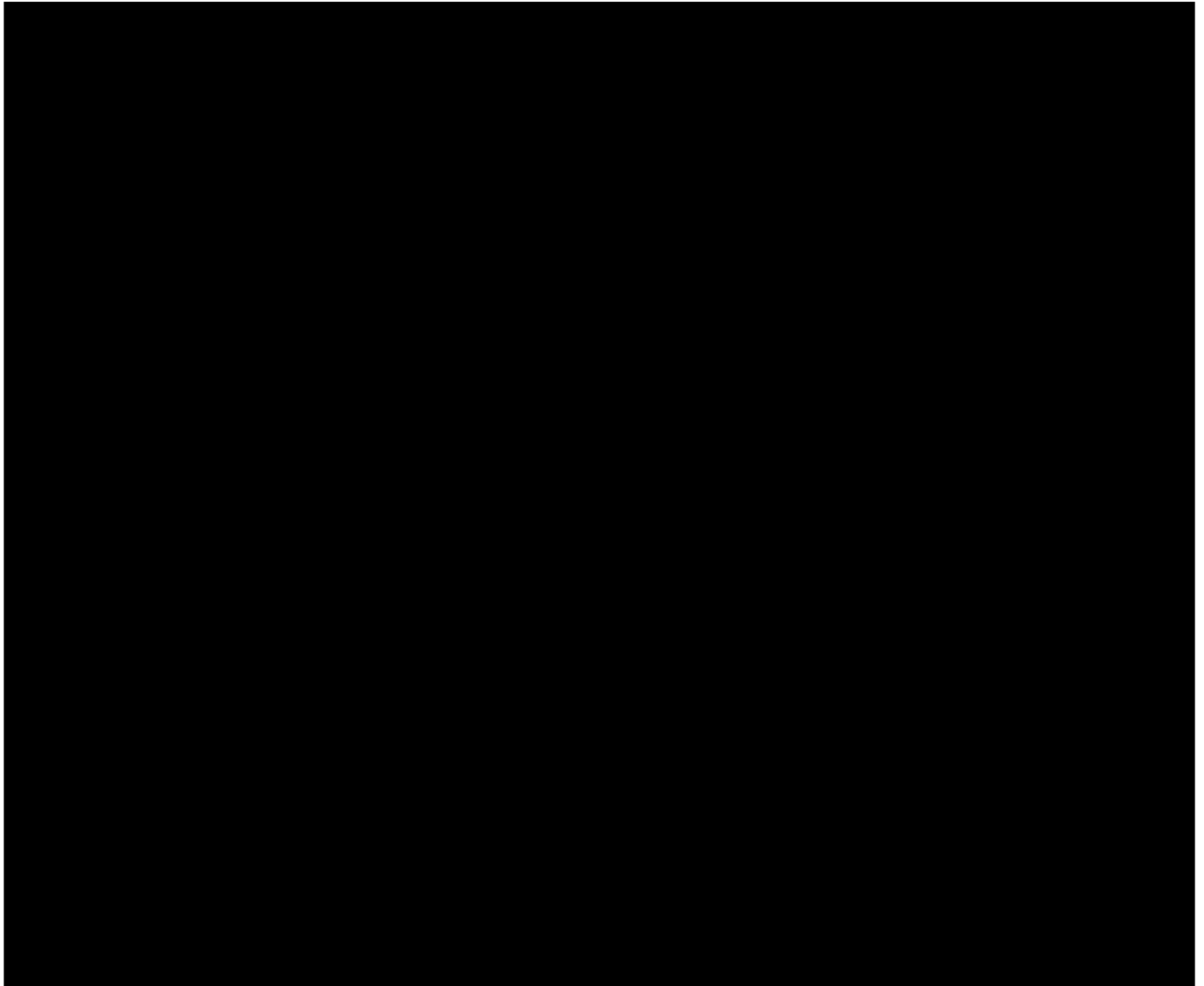
TABLE 4-5. HAZARD RISK RANKING

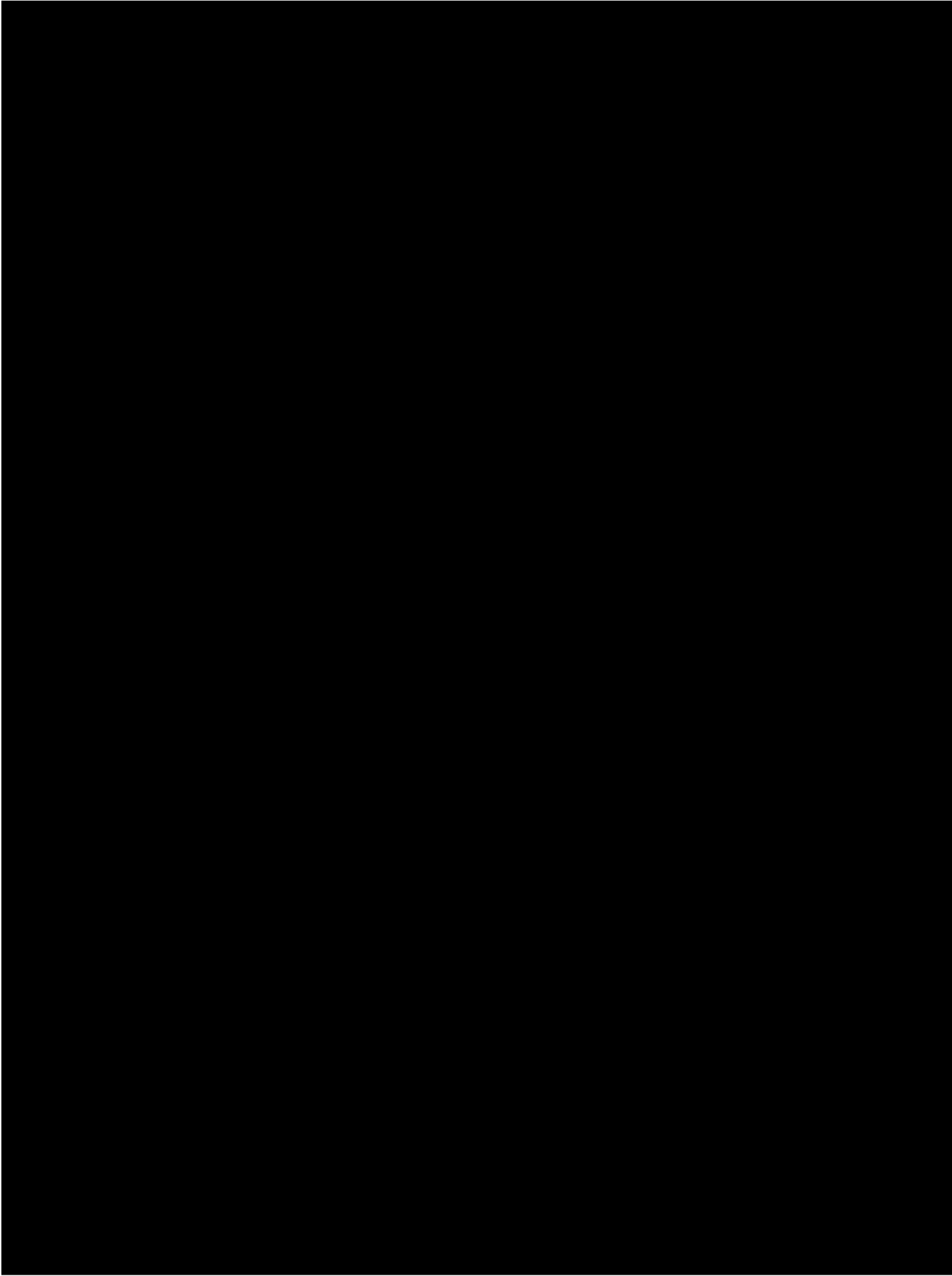
HAZARD	FREQUENCY OF OCCURENCE	POTENTIAL SEVERITY	RANKING
Drought	Highly Likely	Limited	High
Extreme Heat	Likely	Minor	High
Extreme Wind	Highly Likely	Limited	High
Flood	Highly Likely	Limited	High
Hurricane	Likely	Substantial	High
Lightning	Occasional	Limited	High
Winter Storm	Highly Likely	Minor	High
Hail	Unlikely	Limited	Moderate
Tornado	Unlikely	Limited	Moderate
Wildfire	Highly Likely	Limited	Moderate
Hazardous Materials	Likely	Limited	Moderate
Infectious Disease	Unlikely	Substantial	Moderate
Dam Failure/ Levee Break	Unlikely	Substantial	Low
Pipeline Failure	Highly Likely	Limited	Low
Terrorism	Unlikely	Major	Low

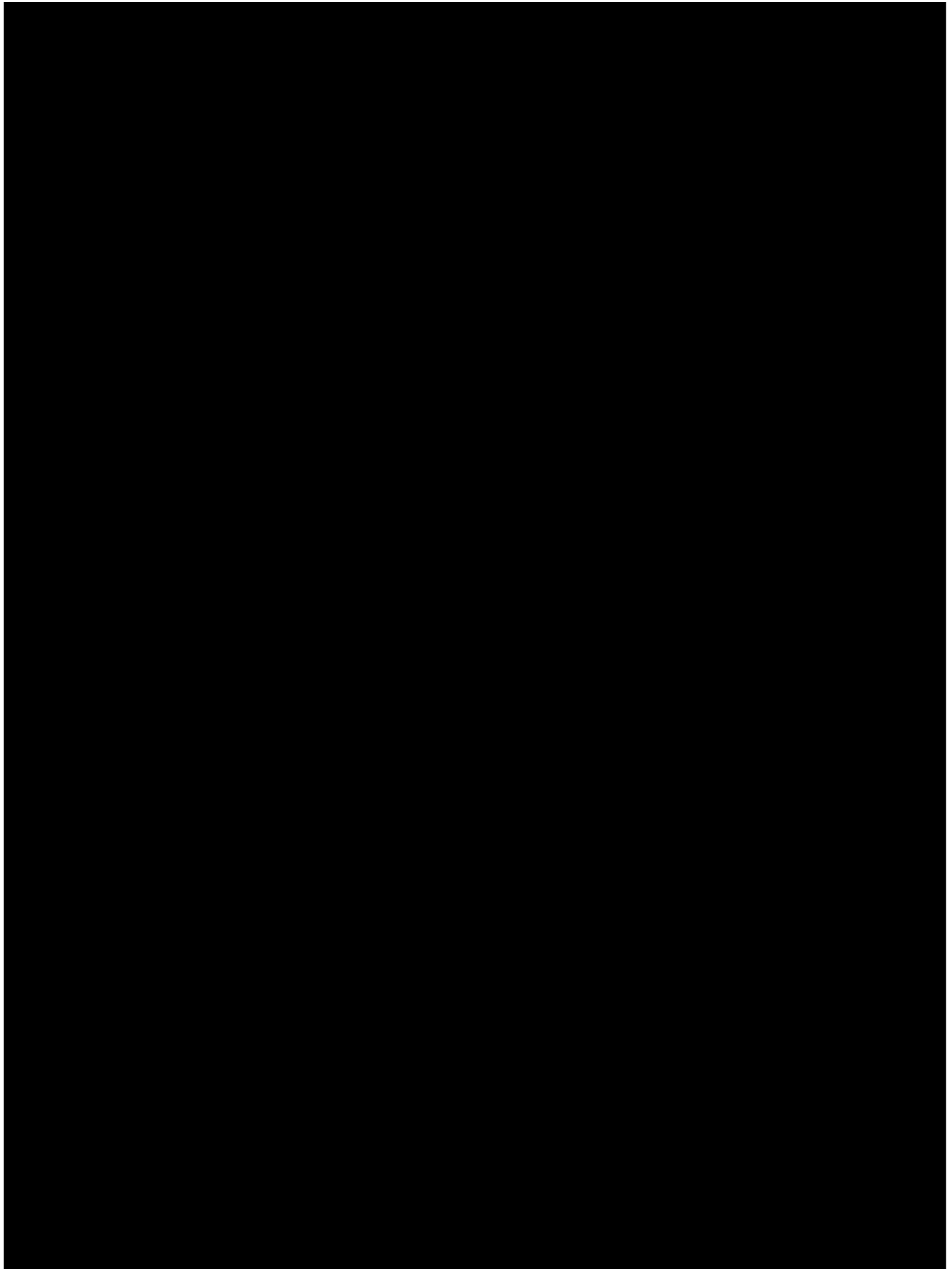
Figure from: City of La Feria Hazard Mitigation Plan

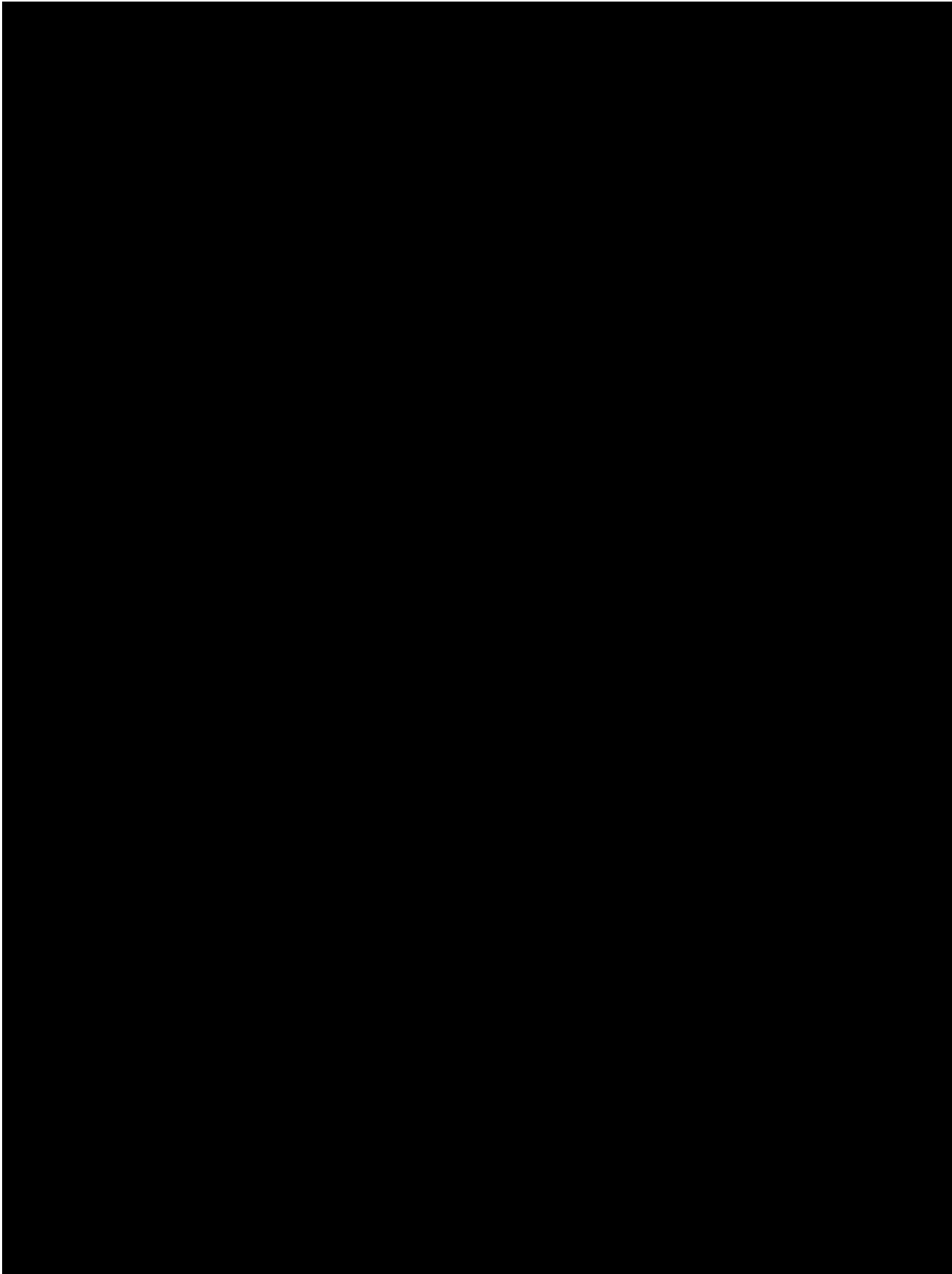


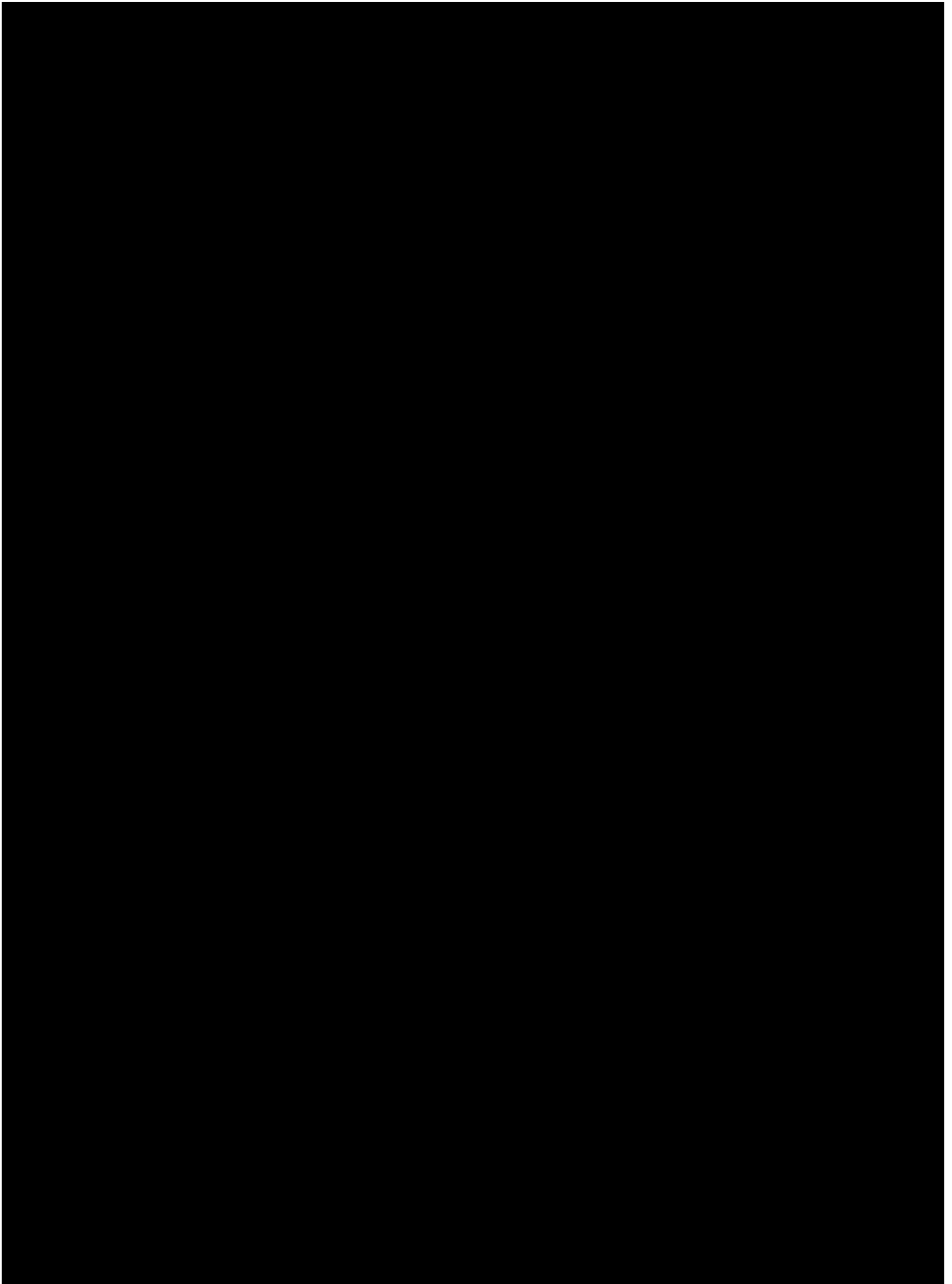
Rayos del Sol Solar Project, LLC – Hurricane Annex, Version #1.0

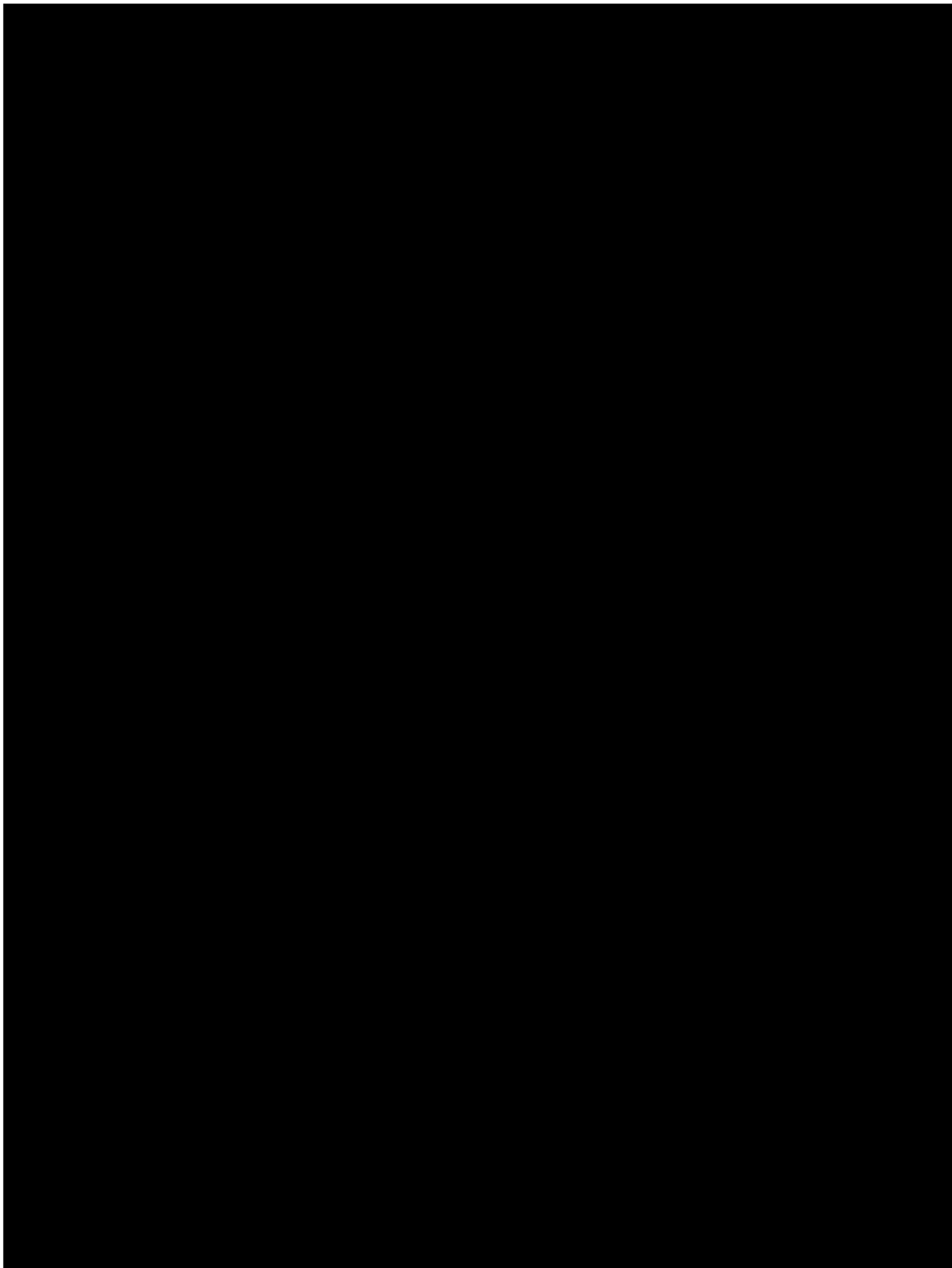


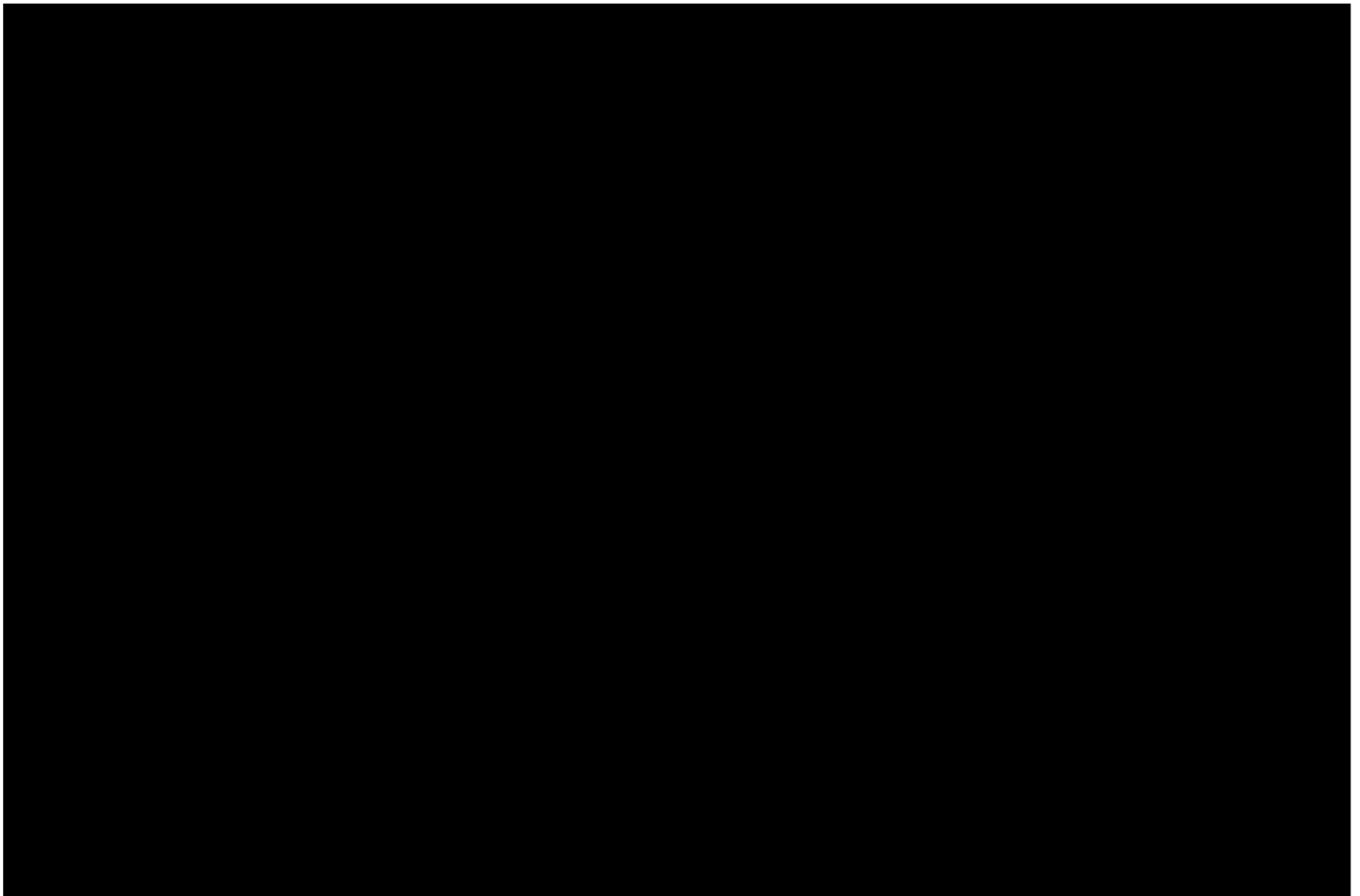












9.0 RESOURCES AND RELATED DOCUMENTS

Rayos Emergency Operations Plan

Rayos Cold Weather Annex

Rayos Hot Weather Annex

Rayos Cyber and Physical Security Incident Annex

Rayos Pandemic and Epidemic Annex

City of La Feria Hazard Mitigation Plan: <https://www.cityoflaferia.com/2016/12/20/city-of-la-feria-hazard-mitigation-plan/>

ERCOT

Current Protocols - Nodal: <http://www.ercot.com/mktrules/nprotocols/current>

- **Section 3: Management Activities for the ERCOT System**

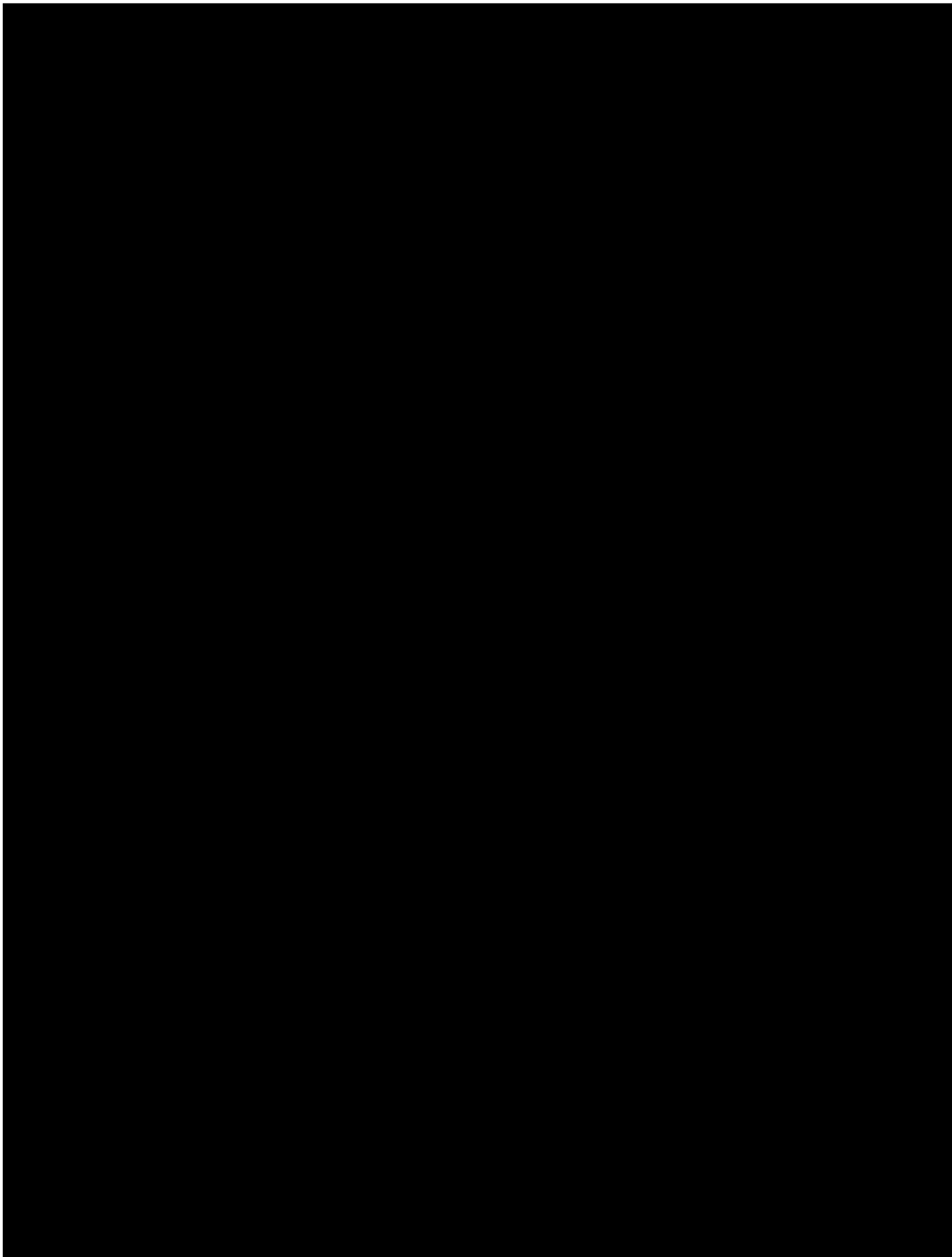
PUCT

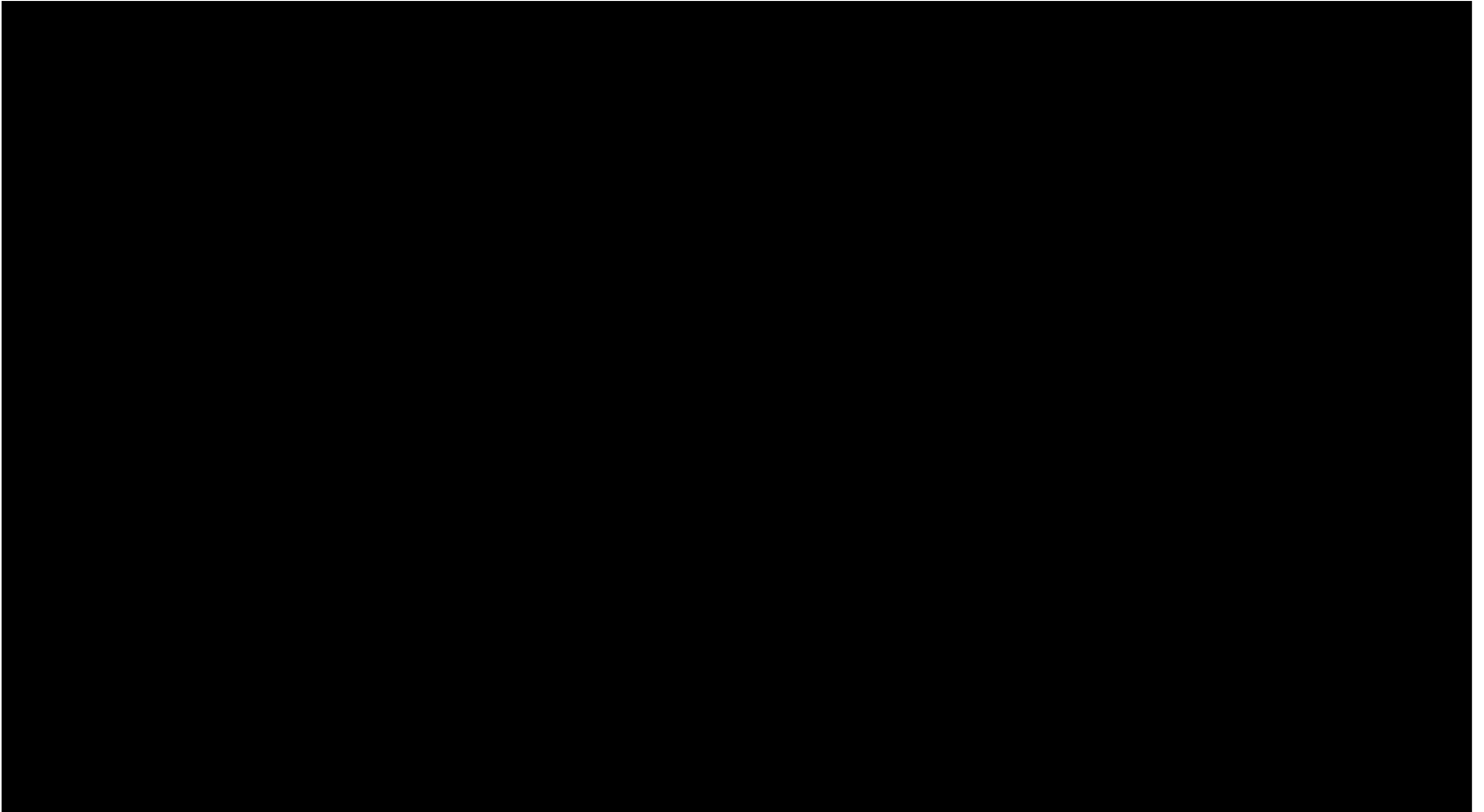
Electric Substantive Rules: Chapter 25 Rules webpage:
<https://www.puc.texas.gov/agency/rulesnlaws/subrules/electric/Electric.aspx>

- Subchapter C, §25.53 - Electric Service Emergency Operations Plans

10.0 SECTION 25.53 DEFINITIONS

Term	Definition
Annex	A section of an emergency operations plan that addresses how an entity plans to respond in an emergency involving a specified type of hazard or threat.
Drill	An operations-based exercise that is a coordinated, supervised activity employed to test an entity's EOP or a portion of an entity's EOP. A drill may be used to develop or test new policies or procedures or to practice and maintain current skills.
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Entity	An electric utility, transmission and distribution utility, PGC, municipally owned utility, electric cooperative, REP, or ERCOT.
Hazard	A natural, technological, or human-caused condition that is potentially dangerous or harmful to life, information, operations, the environment, or property, including a condition that is potentially harmful to the continuity of electric service.
Threat	The intention and capability of an individual or organization to harm life, information, operations, the environment, or property, including harm to the continuity of electric service.





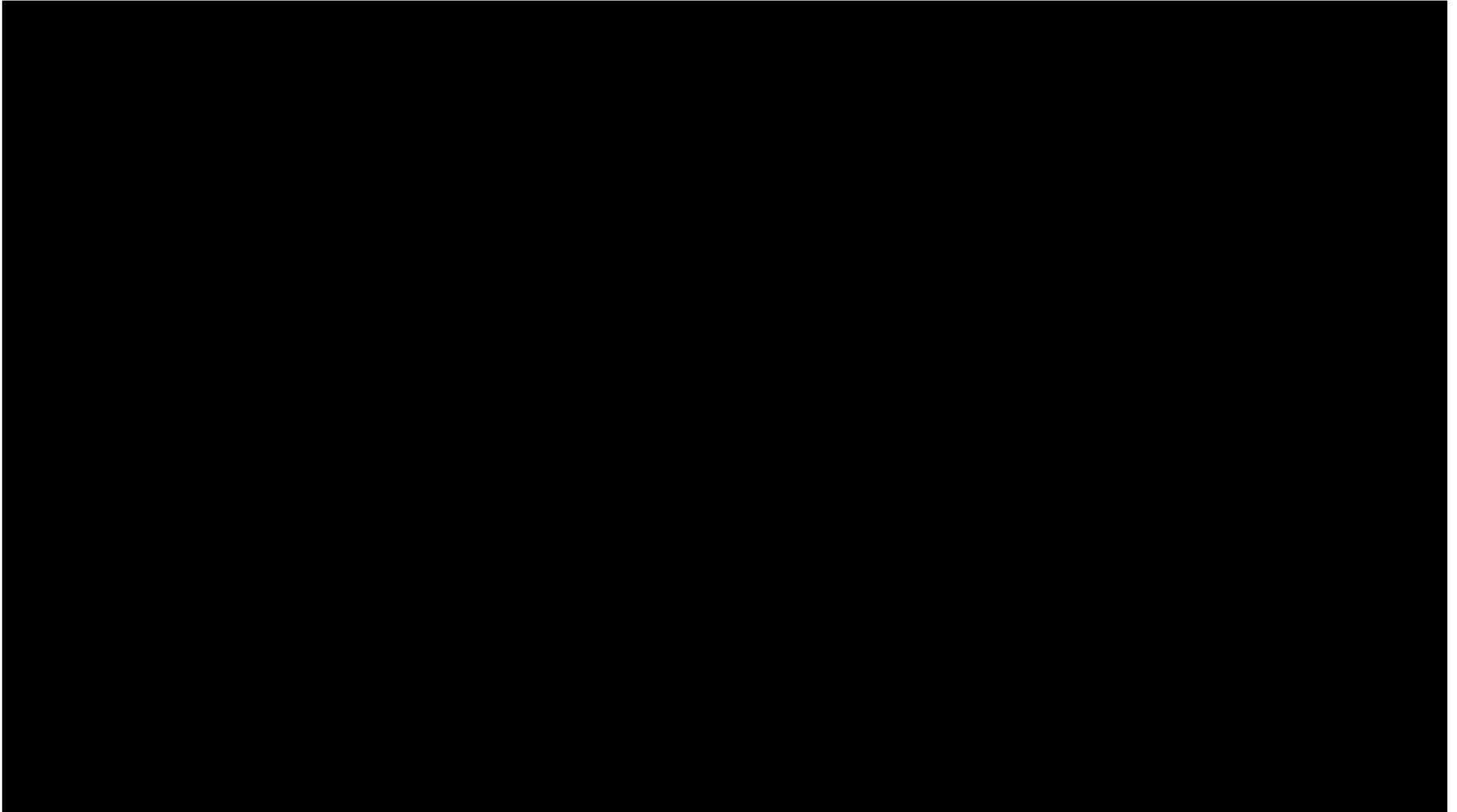


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Rayos del Sol Solar Project, LLC – Cyber and Physical Security Incident Annex, Version #1.0

1.0 APPROVAL AND IMPLEMENTATION SECTION

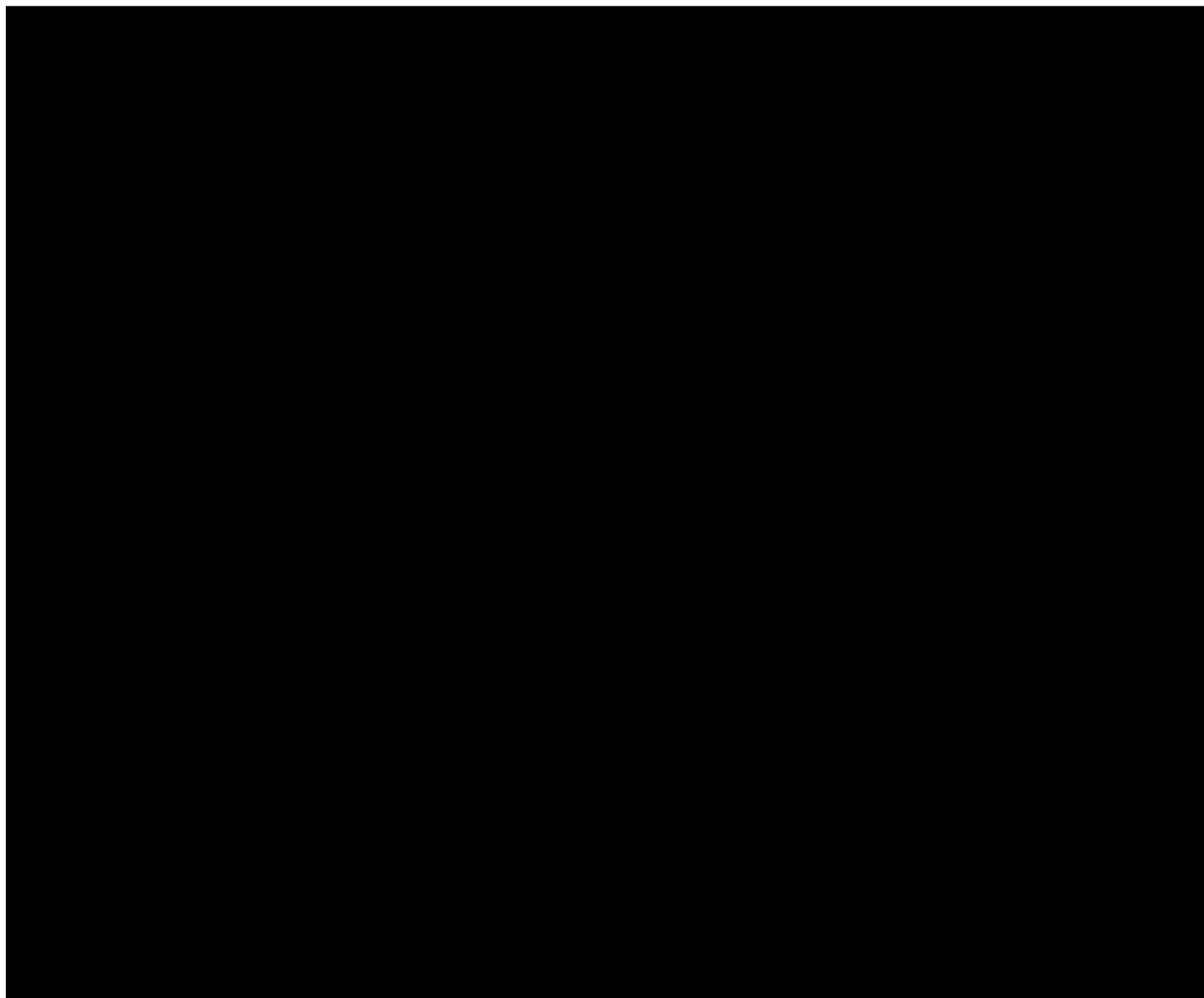
A. Introduction and Applicability

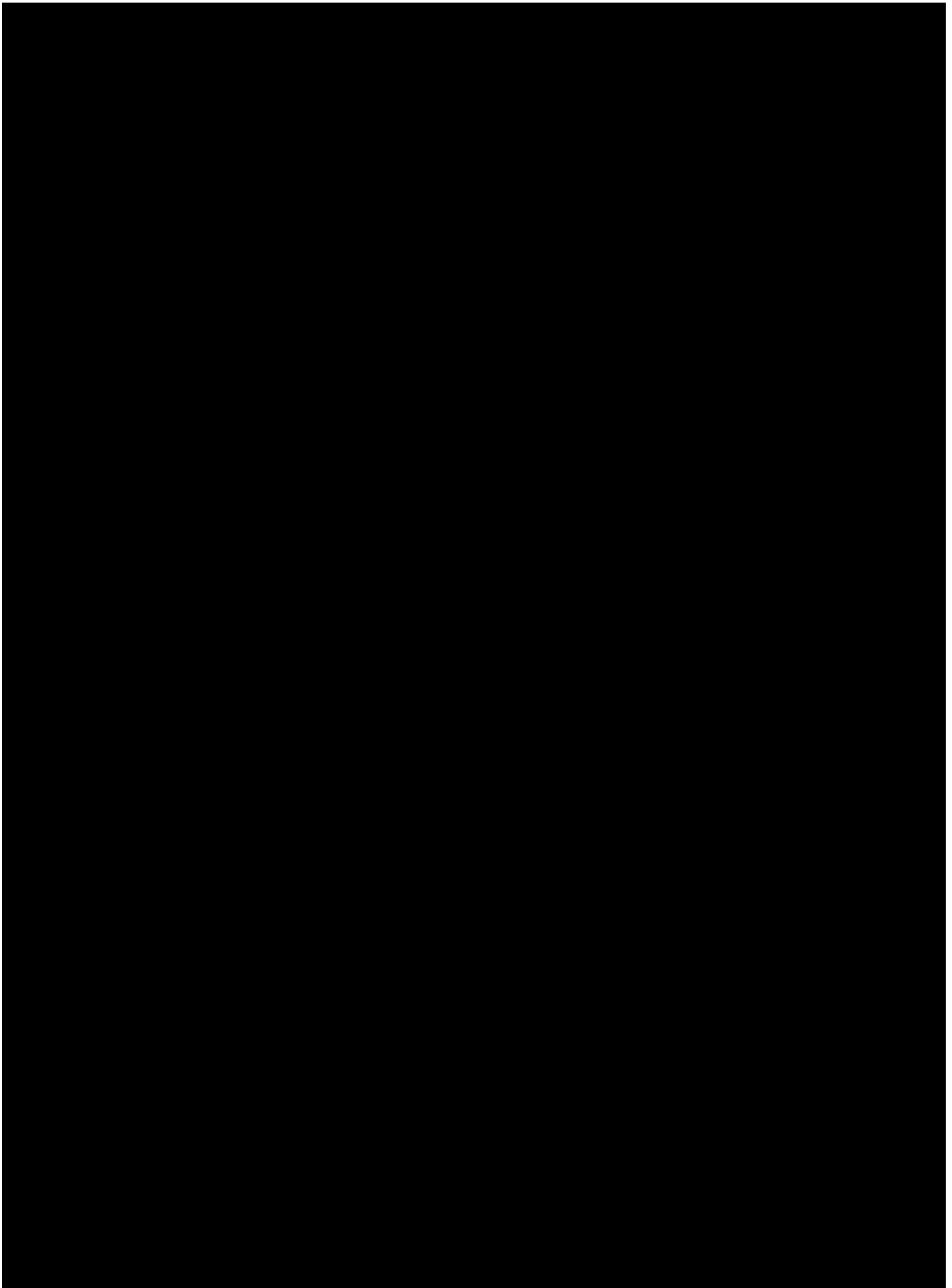
1.1 Introduction

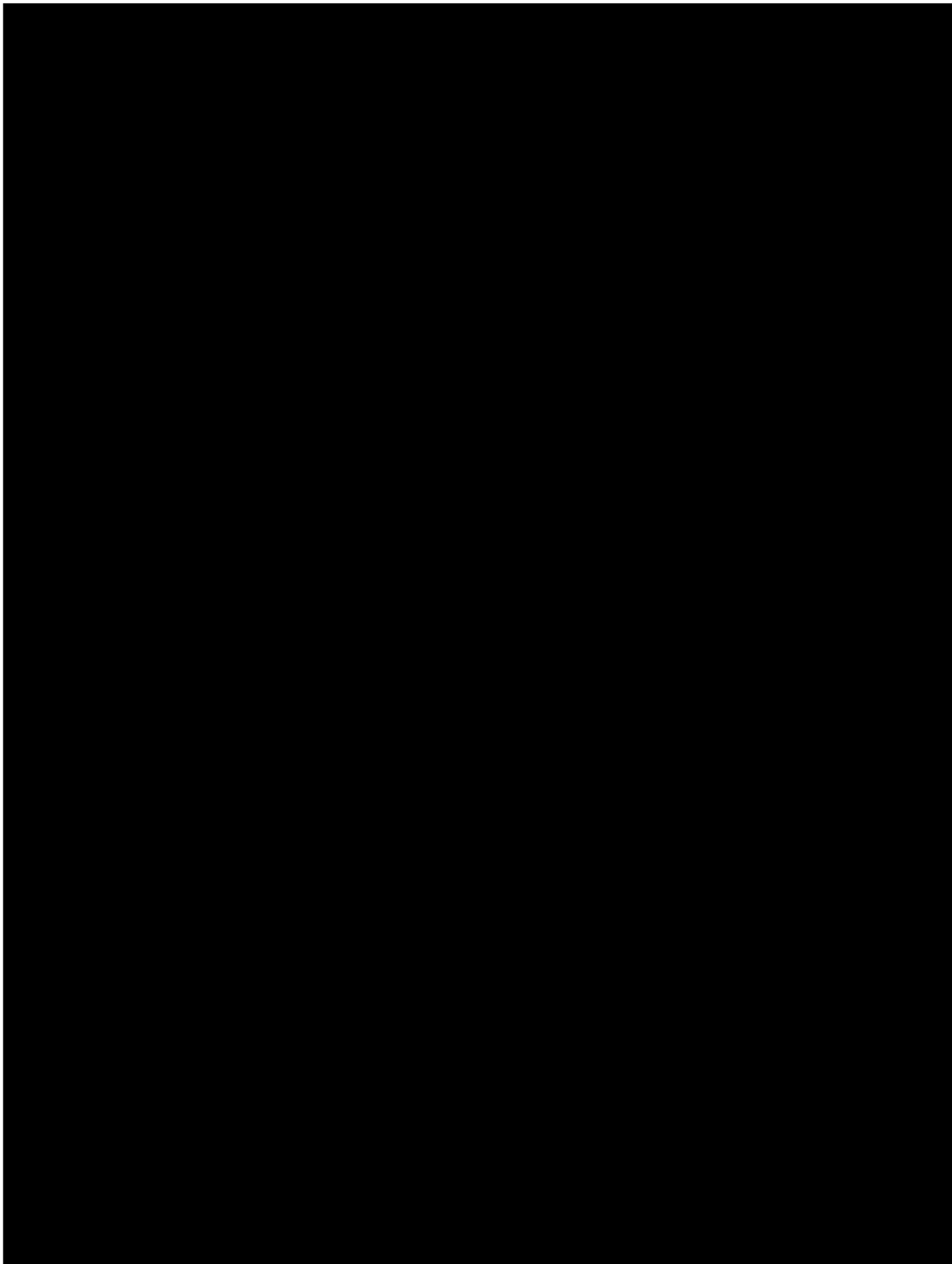
This *Cyber and Physical Security Incident Annex* describes the policies and processes for Rayos specific to cyber security and physical security incidents and provides information on identification and escalation of potential or actual cyber or physical security incidents.

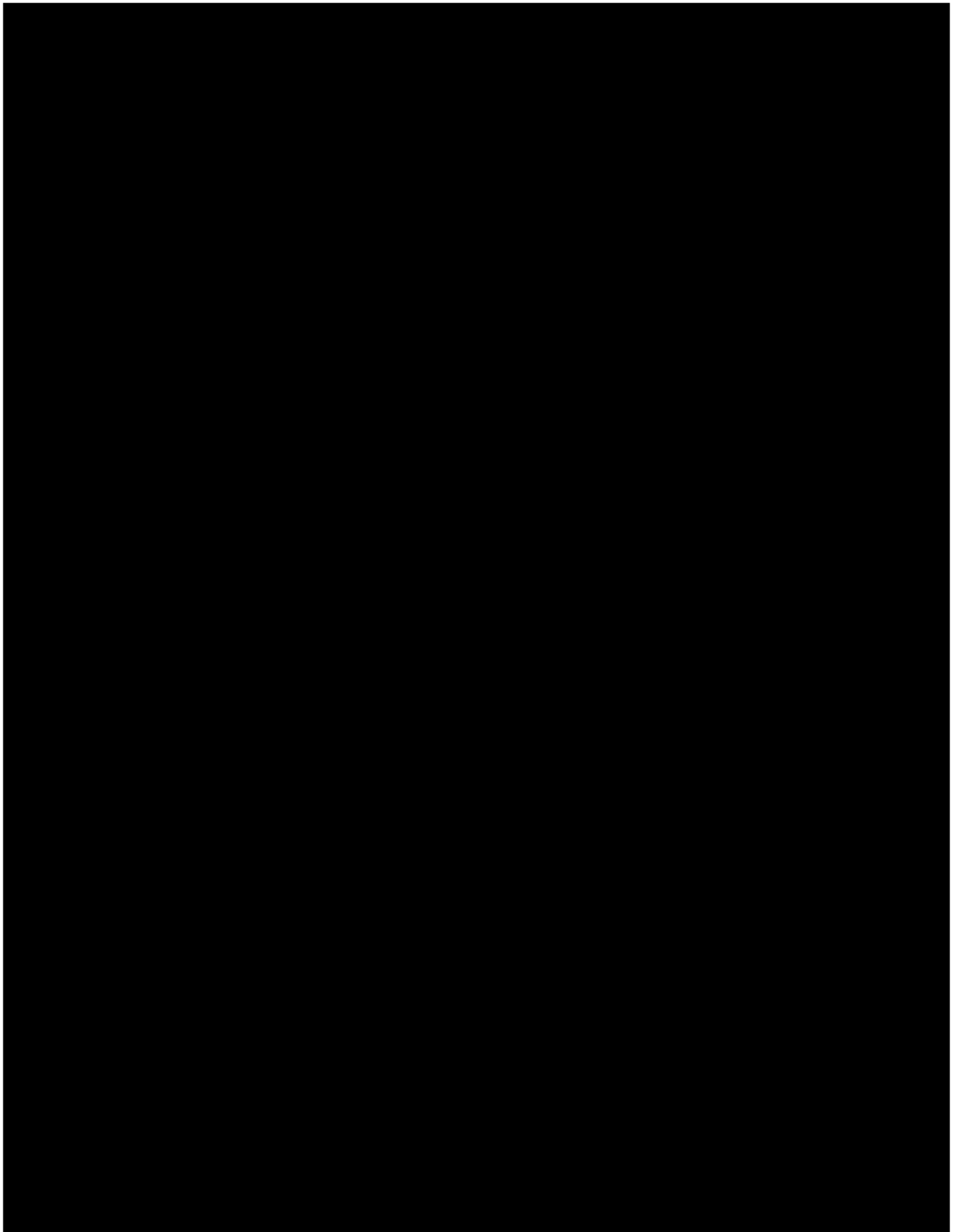
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4.0 RESOURCES AND RELATED DOCUMENTS

Rayos Emergency Operations Plan

Rayos Pandemic and Epidemic Annex

Rayos Hot Weather Annex

Rayos Cold Weather Annex

Department of Energy (DOE)

Office of Cybersecurity, Energy Security & Emergency Response web page:

<https://www.oe.netl.doe.gov/oe417.aspx>

- DOE-417 Online Submissions and DOE-417 Form and Instructions are located on this web page.
- The Online Submissions link allows a user to include NERC System Awareness and the E-ISAC on the submittal; if the user has a login account, they can include additional recipients as well as retrieve and update past forms.

NERC

<https://www.nerc.com/pa/rrm/bpsa/Pages/default.aspx>

Rayos del Sol Solar Project, LLC – Cyber and Physical Security Incident Annex, Version #1.0**ERCOT**

Current Protocols - Nodal: <https://www.ercot.com/mktrules/nprotocols/current>

- Section 16: Registration and Qualification of Market Participants
- Section 23 Form E, Notice of Change of Information:
- Section 23 Form O, Notice of Cybersecurity Incident

Current Nodal Operating Guides: <https://www.ercot.com/mktrules/guides/noperating/current>

- Section 3: ERCOT and Market Participant Responsibilities

Texas RE

Texas RE Event Analysis webpage: <https://www.texasre.org/reliabilityservices>

- See “Event Contact Information” section under Event Analysis

PUCT

Electric Substantive Rules: Chapter 25 Rules webpage:

<https://www.puc.texas.gov/agency/rulesnlaws/subrules/electric/Electric.aspx>

- Subchapter C, §25.53 - Electric Service Emergency Operations Plans

Emergency Contact Update Form (posted under Emergency Management section):

<https://www.puc.texas.gov/industry/electric/forms/>

5.0 SECTION 25.53 DEFINITIONS

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Rayos del Sol Solar Project, LLC – Cyber and Physical Security Incident Annex, Version #1.0

Term	Definition
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Threat	The intention and capability of an individual or organization to harm life, information, operations, the environment, or property, including harm to the continuity of electric service.

