



<u>Subject/Title</u> TELEPERM XS Simulation tools - translation of selected chapters from requirements and design specification documents from the initial development	Ref. (Department/Year/Language/Serial No.)		Rev.
	NLTC-G/2009/en/0069		A
	Place	Date	
	Erlangen	2009-11-30	
Prepared by	Department	Tel.	Signature
Dorothea Dammer	NLTC-G	92494	
Reviewed by			
Dr. Christian Hessler		NLTC-G	92546

Project  
TELEPERM XS

Handling Instructions

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Export Classification (Reports with techn. content)

AL: N ECCN: N

Dr. Christian Hessler

Dr. Steffen Richter

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Proj.-Code	UA	DCC	Contents Code	Doc. Ident. No.
ZXS010	BK	E DD		0620268491

Summary

Pages of Text: 3 Appendices \_\_\_\_\_ Pages total: \_\_\_\_\_

This report contains the translation of selected chapters from the following work reports :

- **Requirements specification: SIMM**  
(original title: Lastenheft SIMM (KWU NLL4/98/068))
- **TXS design specification, version 01.21: Generator CATS-SDE for the TXS simulation environment**  
(original title: TXS-Pflichtenheft, Version 01.21: Generator CATS-SDE für die TXS-Simulationsumgebung (KWU NLLZ ST/99/023b))
- **General requirements specification: TXS simulator**  
(original title: Rahmenlastenheft: TXS-Simulator (KWU NLL4/98/042))

These reports were prepared for the "TXS simulation" project, i.e. the initial development of the TXS simulation tools.

Distribution

TXS distribution list 1 (f.i.o)  
NRC via AREVA NP Inc.  
(Mr. Burzynski, SDCI & QUALITY)

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**List of revisions**

Rev.	Date	Scope of revision	Section/Page
A	2009-11-30	First issue	

Handling: RESTRICTED

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# SIEMENS

## Work report (translation of selected chapters)

Ref. (Department/Year/Serial No.)

KWU NLL4/98/068

Title/Subject

Requirements specification:  
SIMM

Project

TXS simulation

Handling

Intern

Author(s)

Sebillé

Reuner

Place

Erlangen

Department

NLL4

ATD EWA1

Date

18.05.98

Tel.

85098

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Signature

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Sales & Marketing Dept. (Not  
Required for Approval Documents)

Proj.-Code	UA	Contents Code	Doc. Ident. No.
ZXS010	BN	1800 4000	1000889947

Summary \*)

Pages of  
Text

6

Appen-  
dices

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This requirement specification describes the requirements for the development of the SIMM program for integration of the TXS I&C into the SDE simulator control system. The SIMM program is to be written in the C programming language.

\*) In Technical Reports add key words (max. 12) at the end of summary; Minutes of Meeting to start with place, date and participants

Distribution (add "f.i.o.", if only Summary is distributed for information):

NLL4 Mr.Reischl  
NLL3 Dr.Zienert  
NLL4 Mr.Wittig  
NLL4 Dr.Hüsken  
SimPower Mr.Keller

Index	Vers.	Date	Page(s)	Author(s) Initials	Initials for Release

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**Versions:**

Version	Date	Remarks
V 1.0	18.05.98	Preparation of the requirements specification

**Review:**

All written and oral contributions to this report were discussed. The review results were approved by the participants in the review and integrated into this report.

The reviewers listed below confirm this by their signature:

Name	Department	Telephone	Date	Signature
Hr.Wittig	NLL4			
Dr.Zienert	NLL3			

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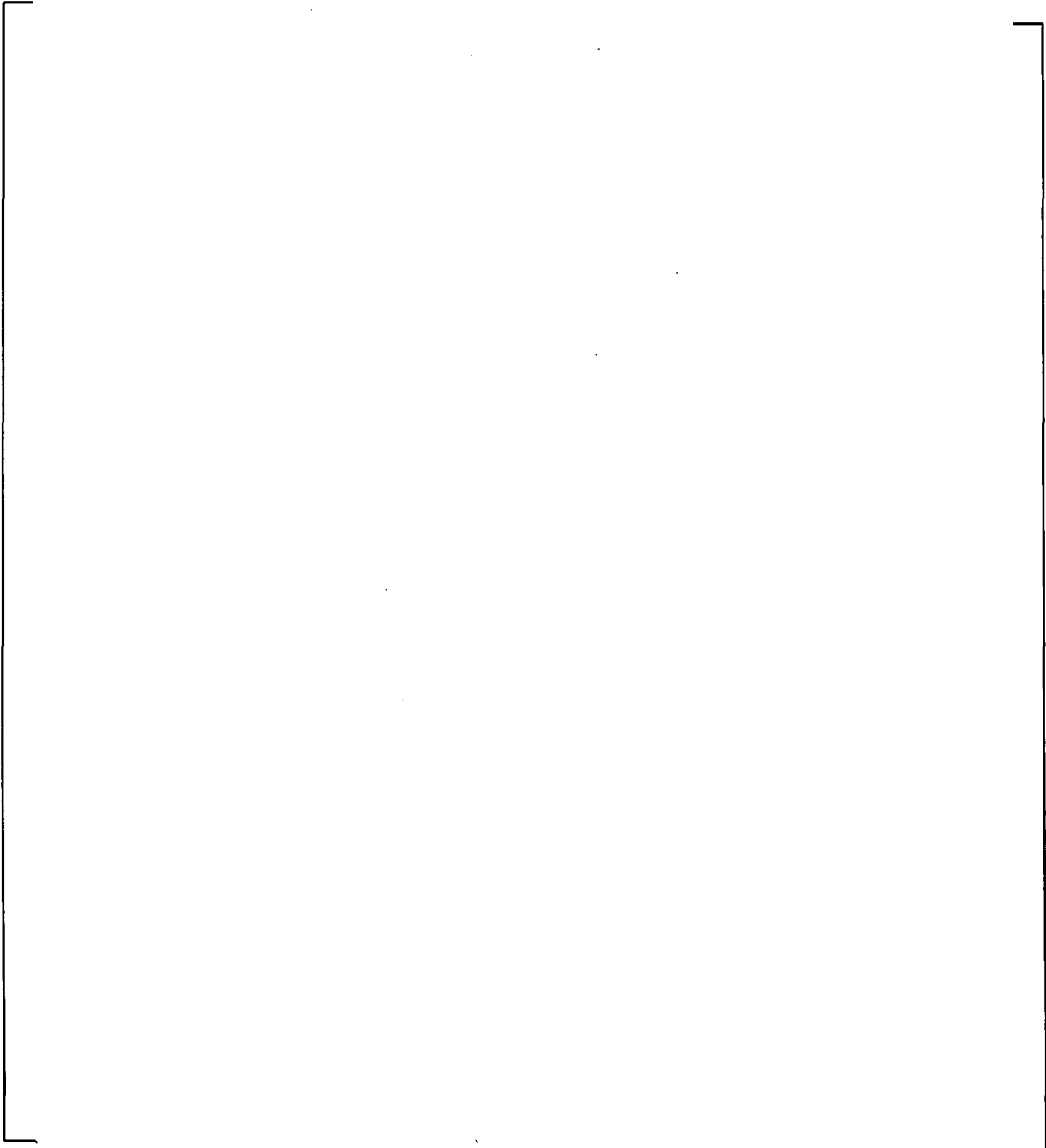
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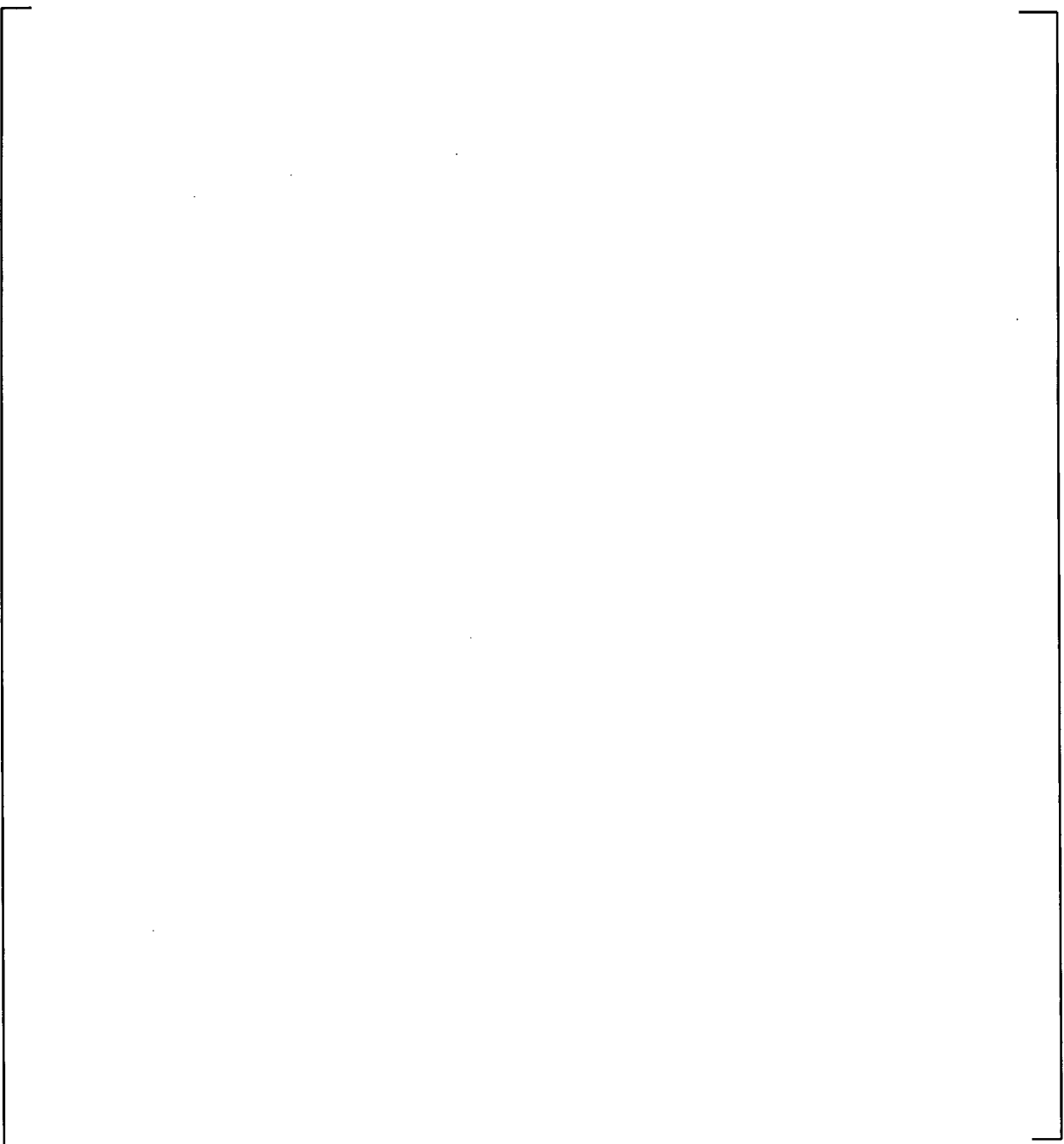
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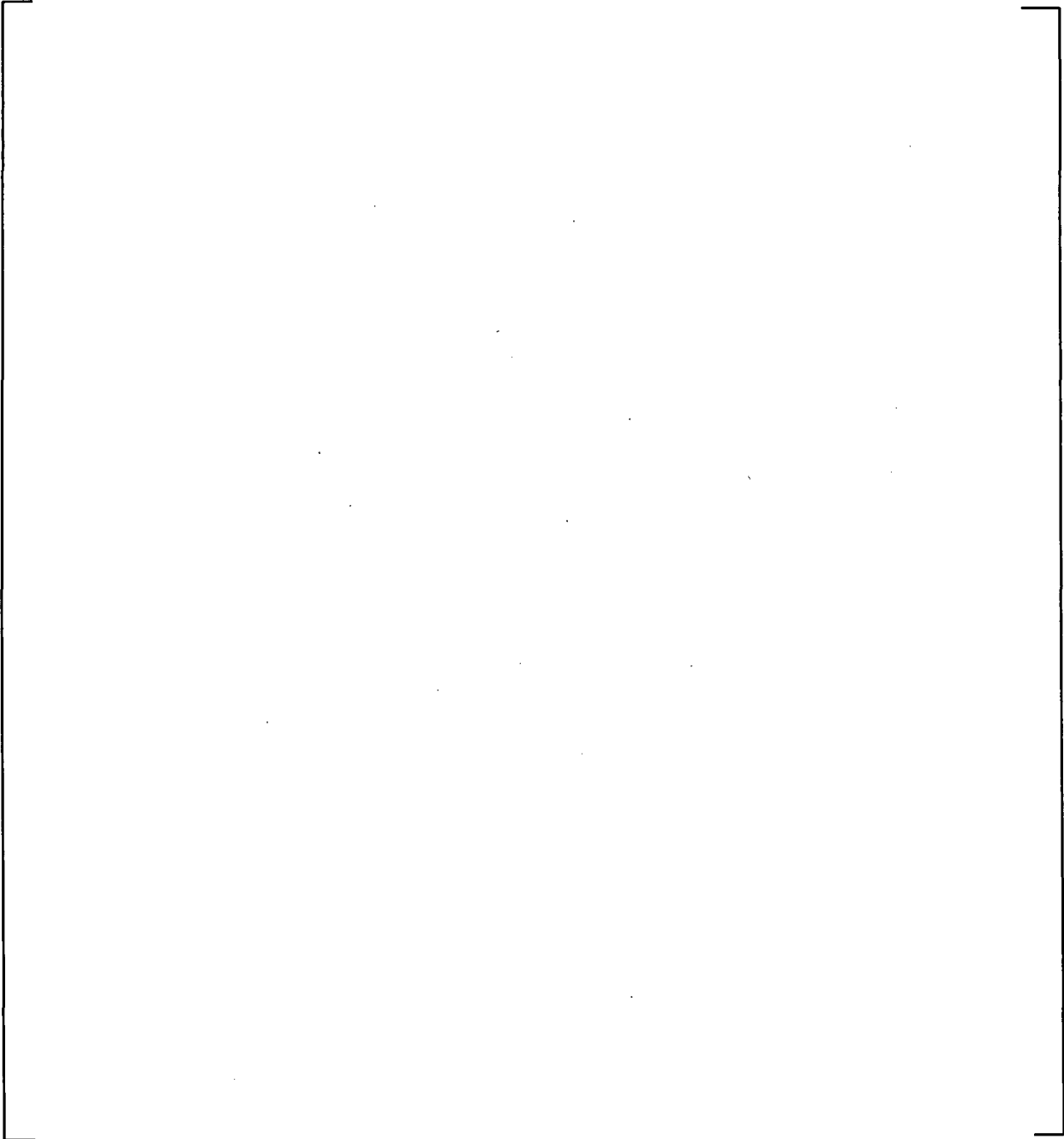
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## Work report (translation of selected chapters)

Ref. (Department/Year/Serial No.)

KWU NLLZ ST/99/023b

Title/Subject

TXS design specification,  
version 01.21:  
Generator CATS-SDE for the TXS  
simulation environment

Author(s)

Reuner

Place	Date
Erlangen	2000-04-18
Department	Tel.
	Signature

ATD TD EWA 1 2420

Project

TXS simulation

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Proj.-Code	UA	Contents Code	Doc. Ident. No.
ZXS010	BN	1800 4000	1000933480

Summary \*)

Pages of Text 27 Appendices -

This specification describes the implementation of the CATS-SDE program, which is intended for automatic integration of the TXS I&C into the SDE simulation control system. The program is written in the C programming language.

This specification describes version 1.2.1 of CATS-SDE. All changes between software versions 1.20 and 1.2.1 were worked in.

\*) In Technical Reports add key words (max. 12) at the end of summary; Minutes of Meeting to start with place, date and participants

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1 x Product folder	0 a		1999-03-31 2000-01-25 2000-04-18	See page 2 See page 2	Reu Reu	

NLLZ ST Dr. Waedt f.i.o  
NLLZ ST Hr. Wittig f.i.o.  
NLL4 Hr. Seville f.i.o  
NLL3 Dr. Zienert f.i.o

TXS-Verteilerkreis 1 f.i.o  
TXS-Verteilerkreis 5 f.i.o

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**Versions:**

Version	Date	Remarks
V 1.00	1998-07-09	Draft the design specification
V 1.00	1999-03-31	Preparation of the design specification
V 1.20	2000-01-25	Design specification updated to current status: – Initialization model – SVEx model – Setup file – I/O malfunctions / models – Interface model – External models
V 1.21	2000-04-18	Design specification updated to current status – Modification of the simulator-specific runtime environment

**Review of version 1.00:**

All written and oral contributions to this report were discussed. The review results were approved by the participants in the review and integrated into this report.

The following modification were introduced into this document and the respective program sources with respect to the review results:

- The program name SIMM was replaced by CATS-SDE. This affects all program modules, user messages and this document.
- The environment variables were reduced and renamed to SIVAT\_HOME and SIVAT\_LANGUAGE.
- SPACE tool "dropdgs.sh" is no longer called.
- The call parameters for CATS-SDE were adapted to the standard UNIX (see section 2.2.1.4.1)

The reviewers listed below confirm this by their signature:

Name	Department	Telephone	Date	Signature
Mr. Wittig	NLLZ ST	85097	1999-05-27	signed
Dr. Waedt	NLLZ ST	84813	1999-05-28	signed
Mr. Sebille	NLL4	85098	1999-05-27	signed
Dr. Zienert	NLL3	OFF-3145	1999-04-16	signed

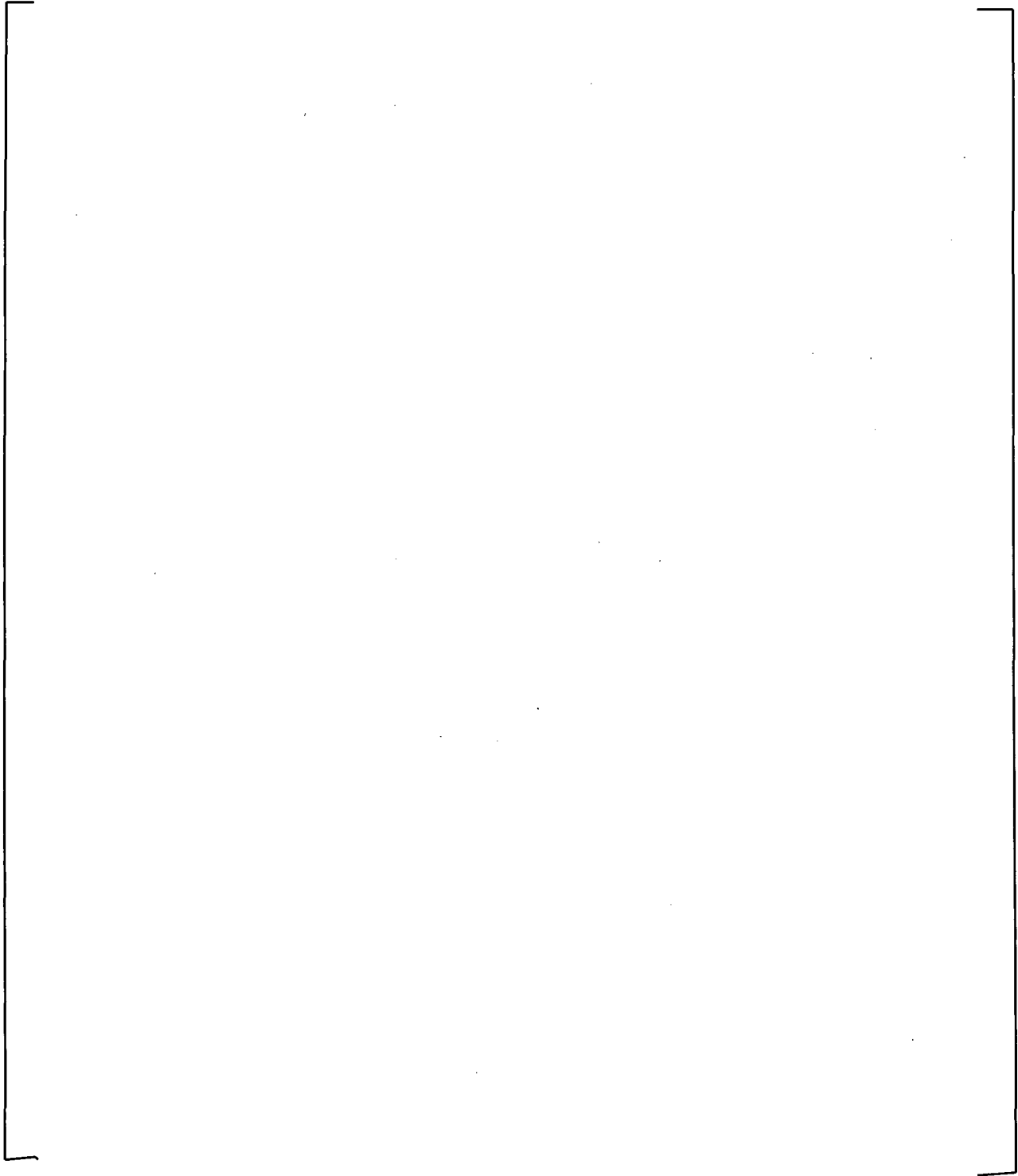
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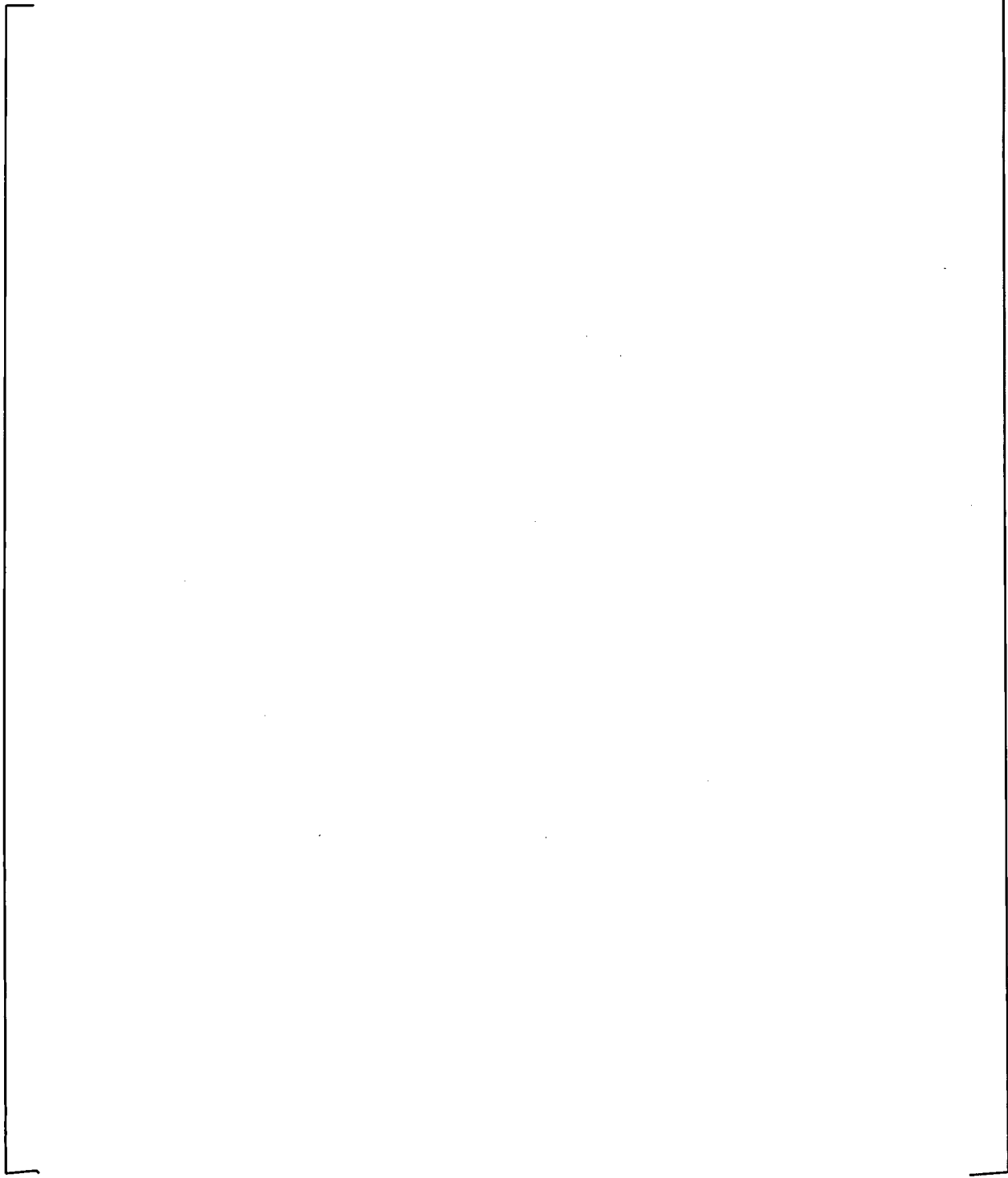
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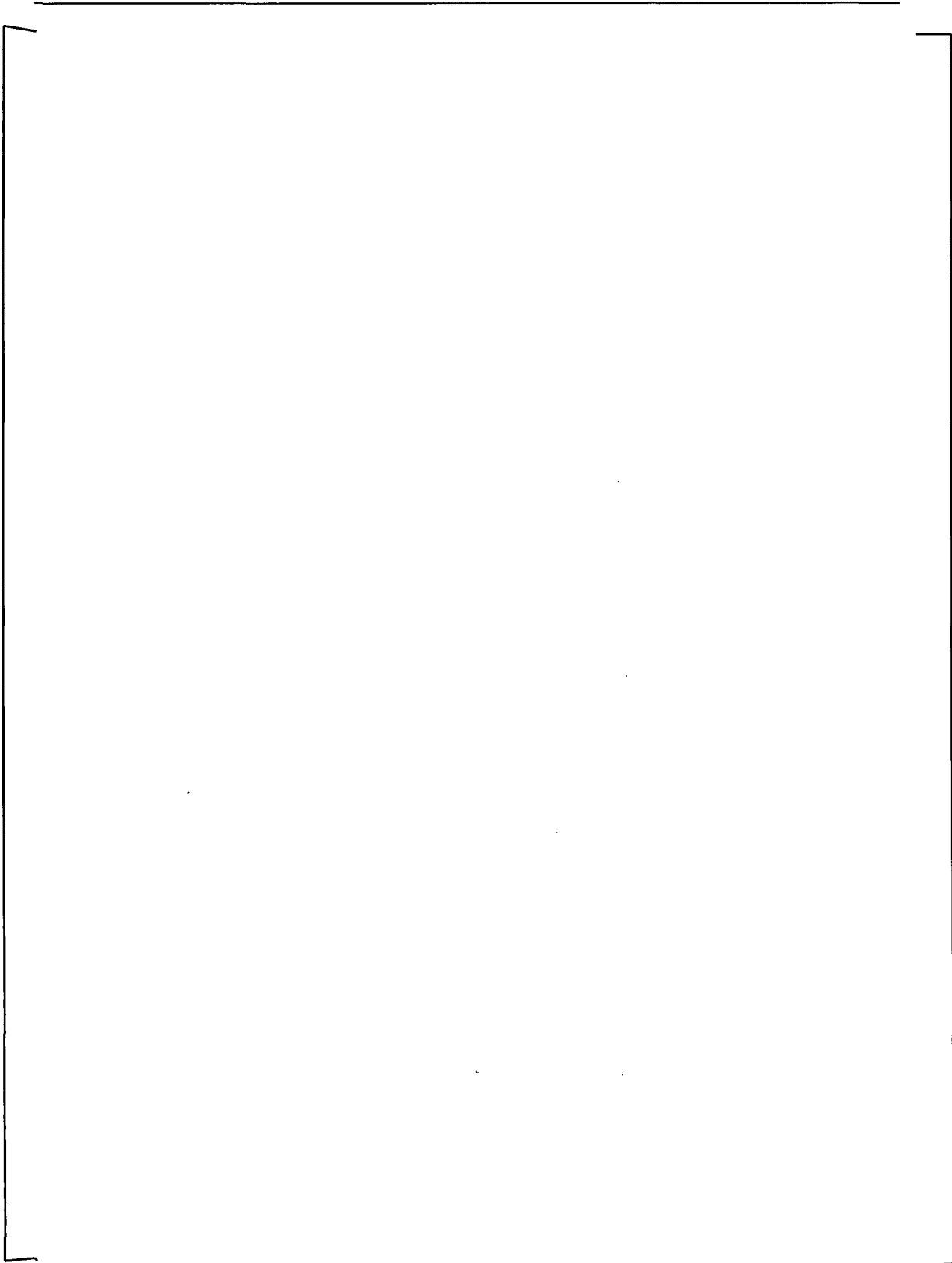
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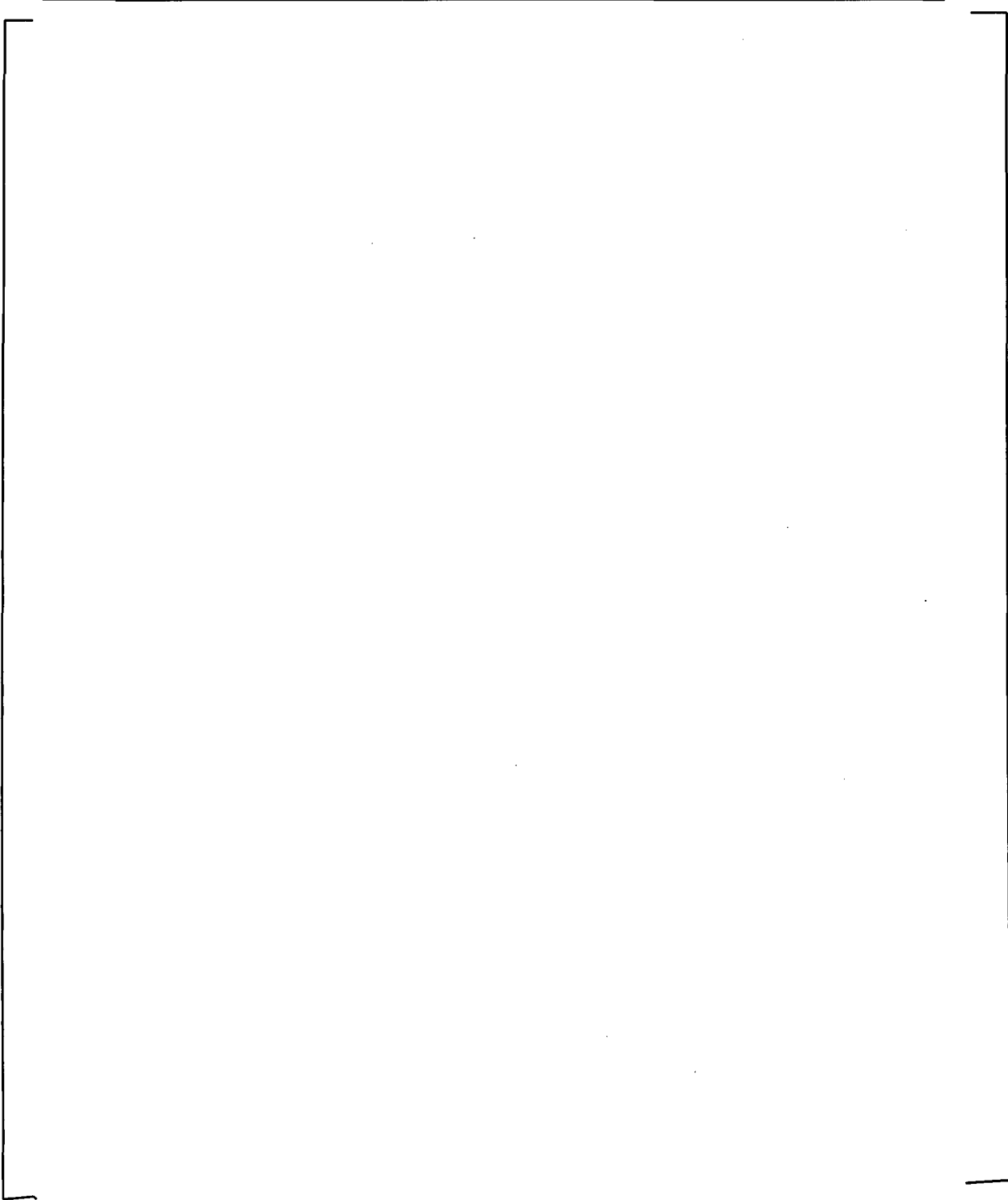
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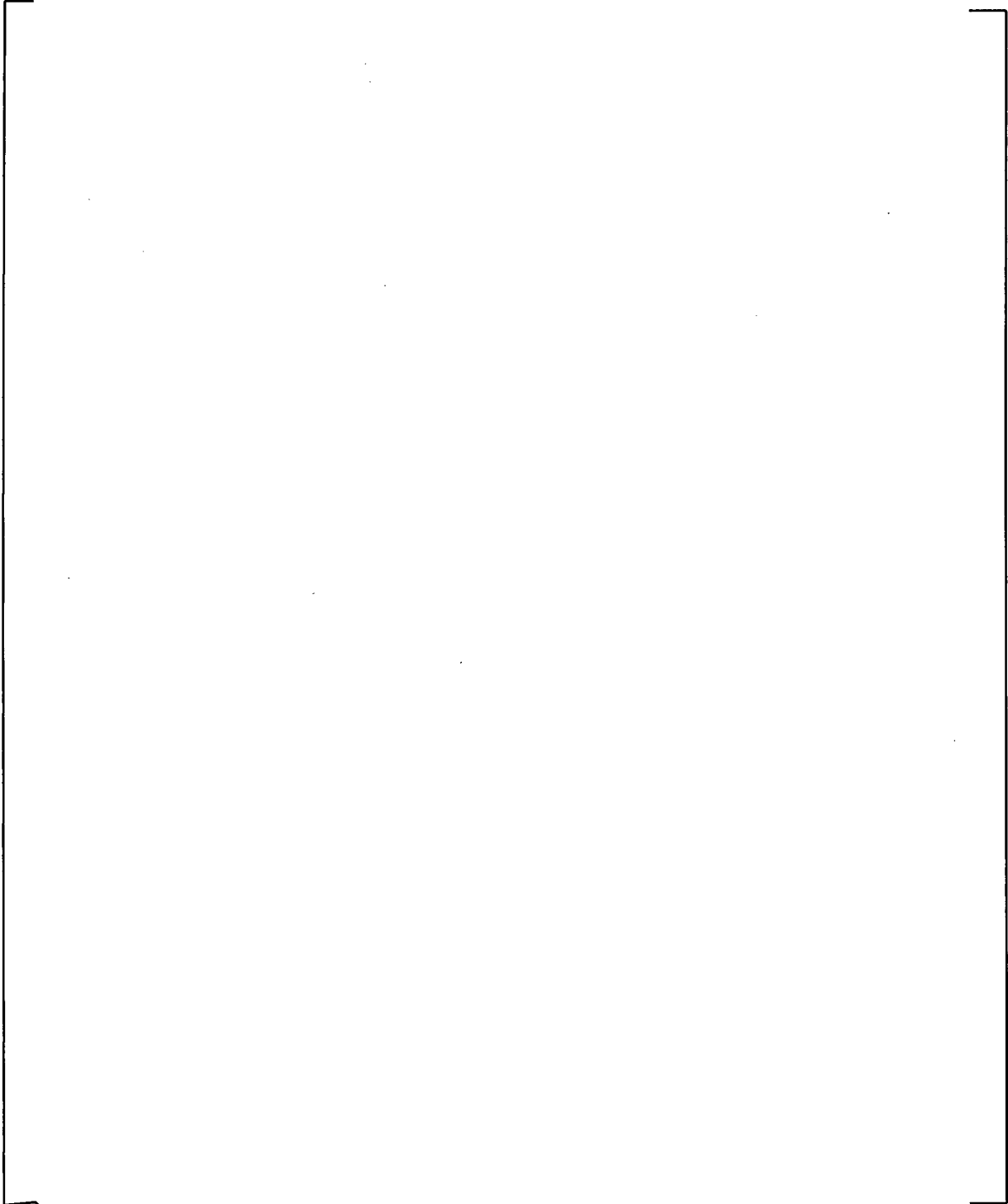
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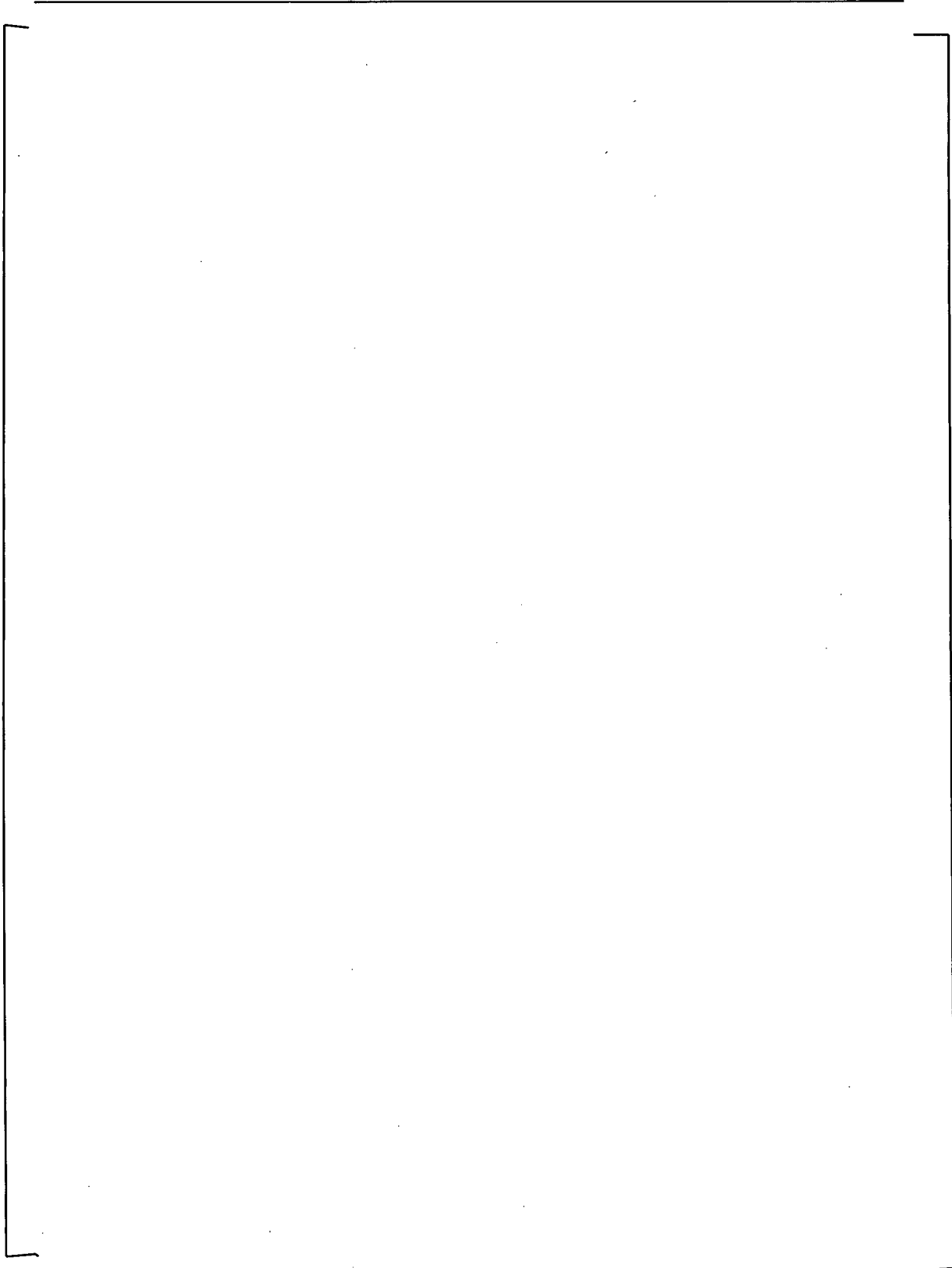
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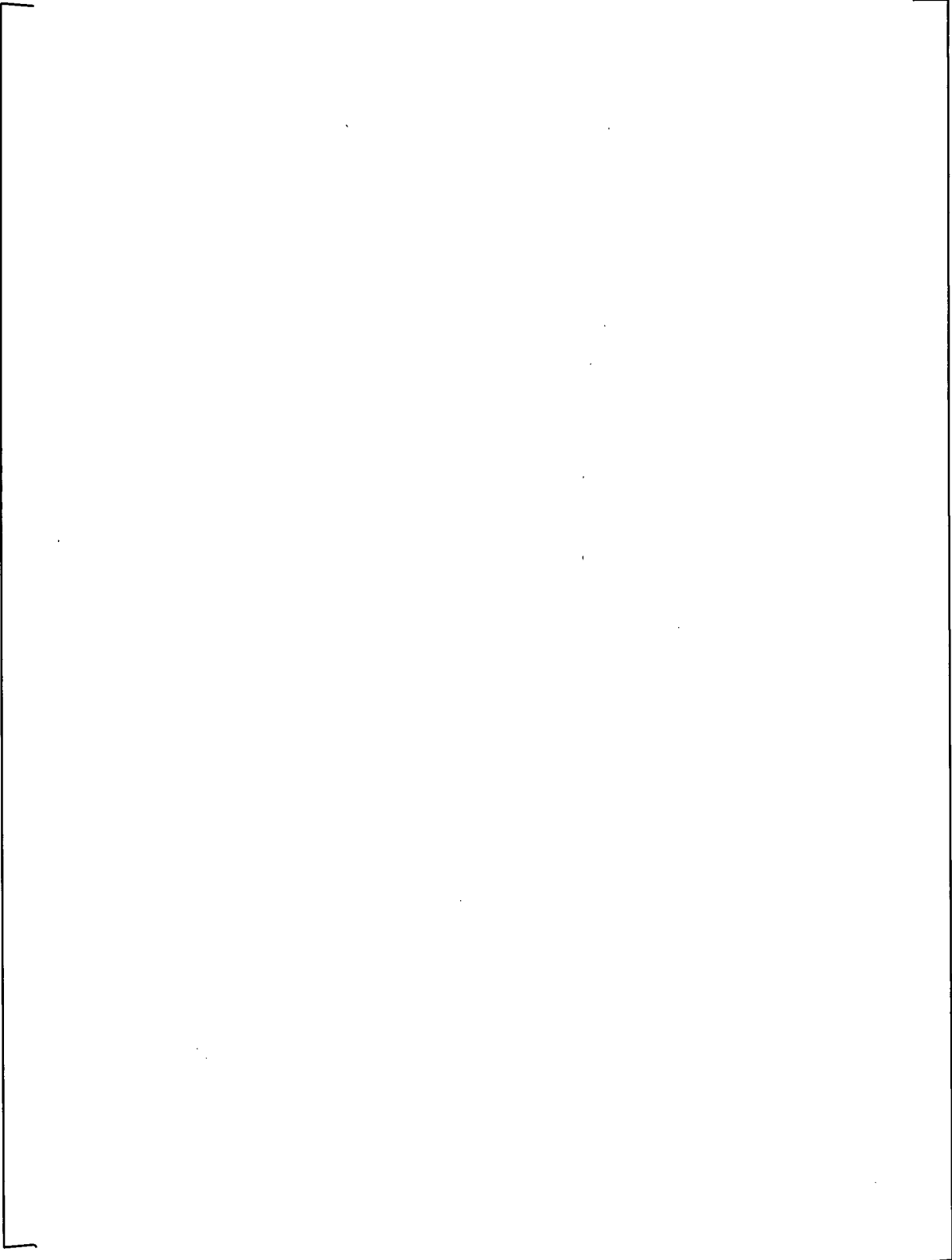
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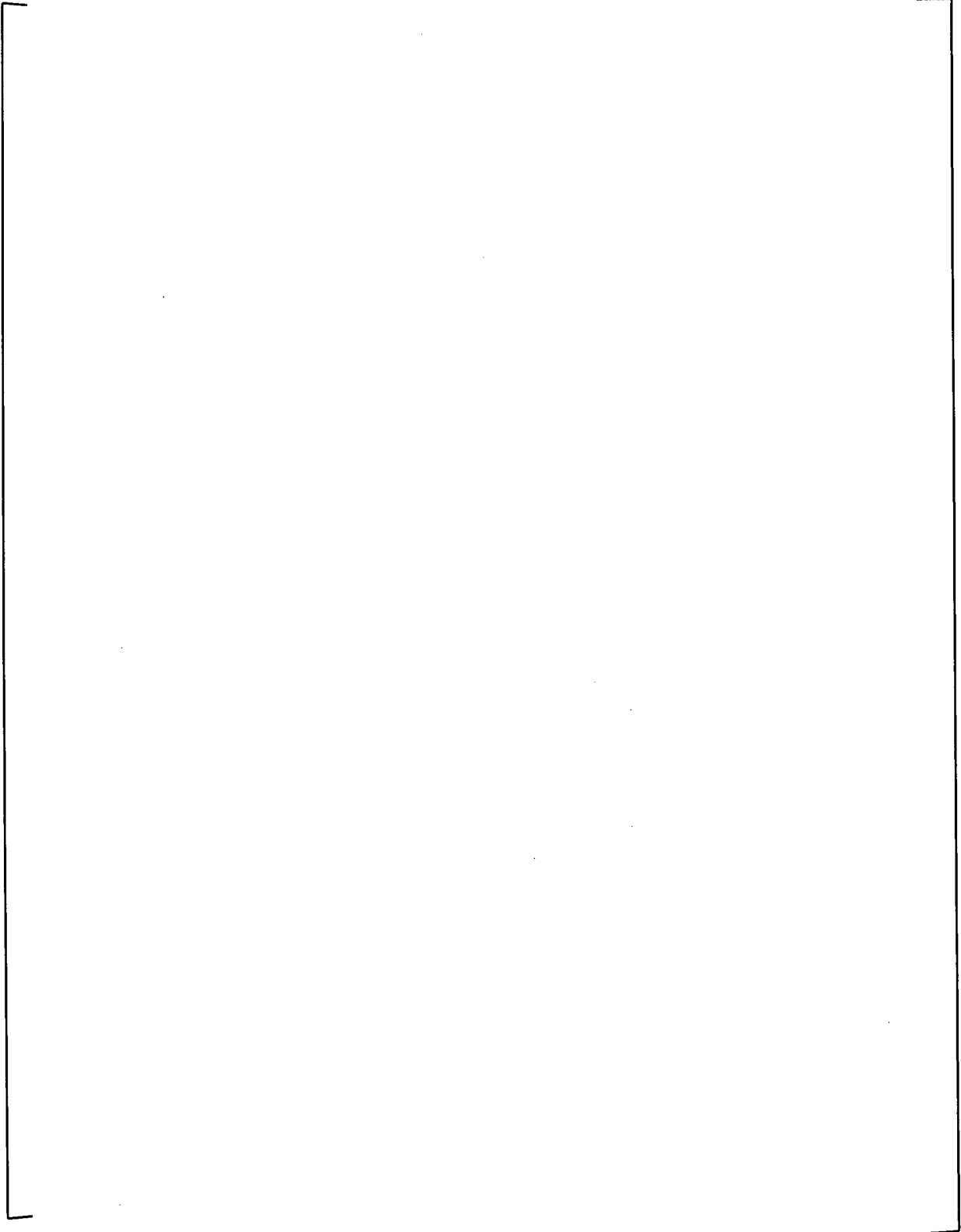
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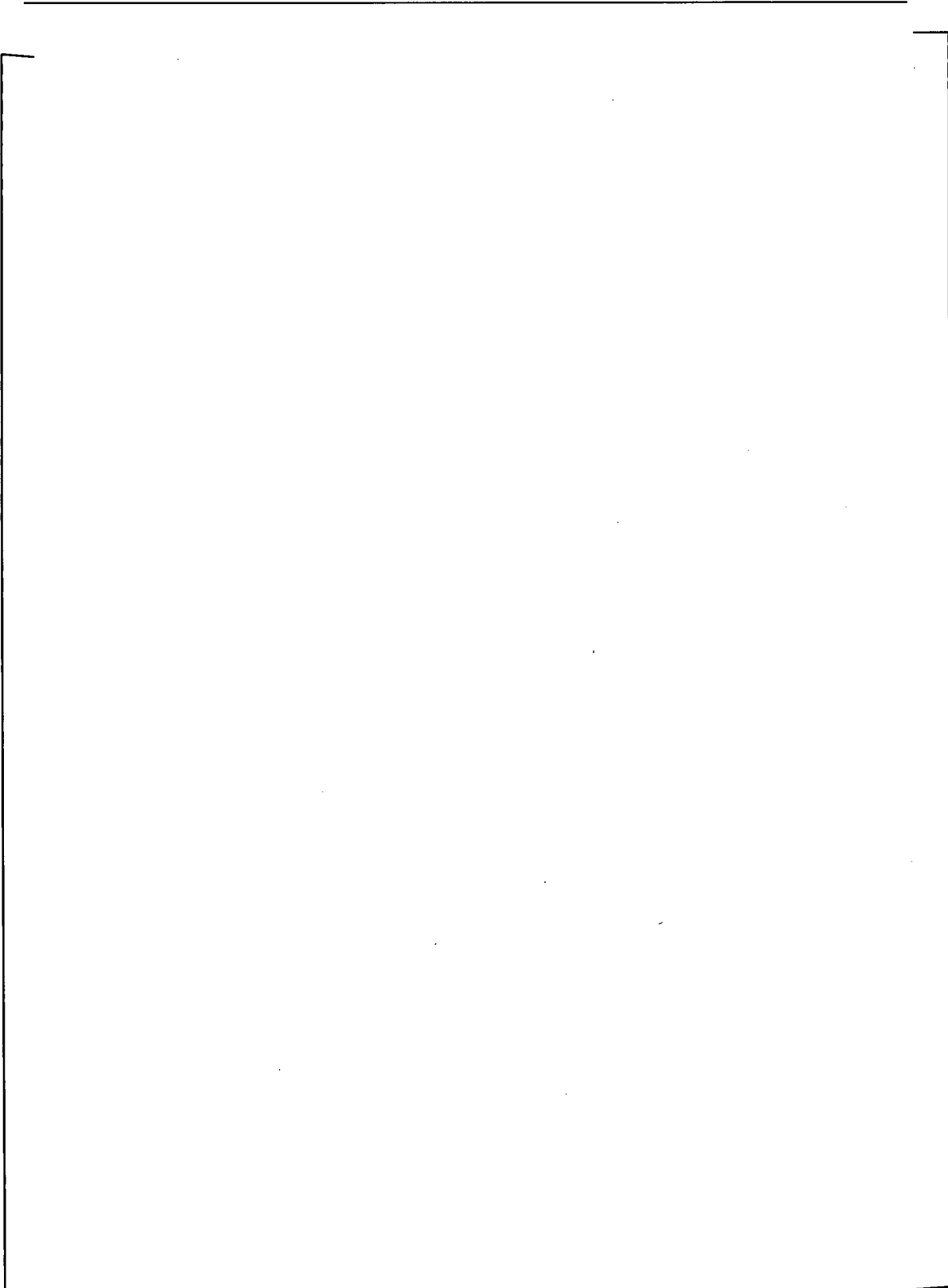
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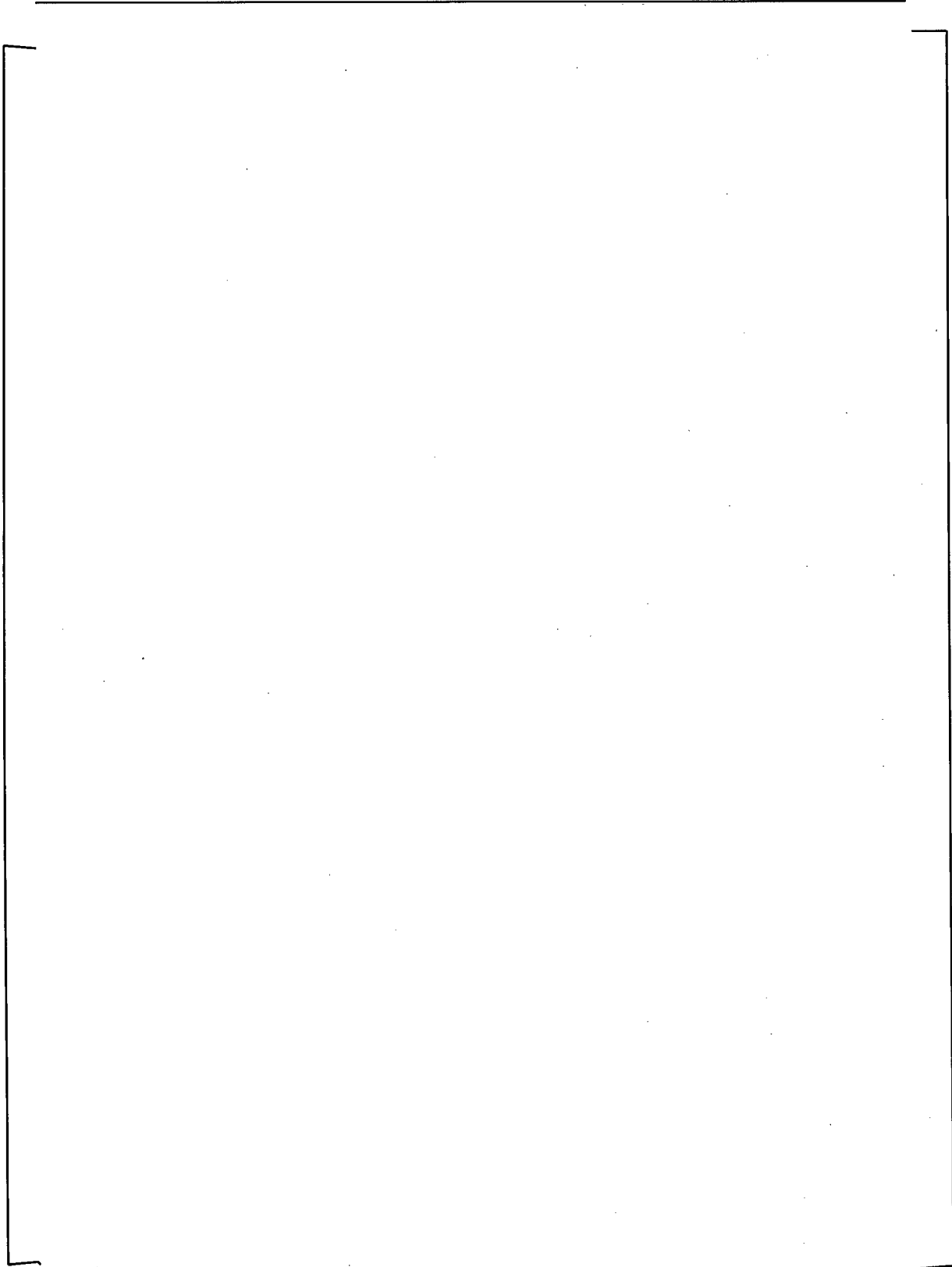
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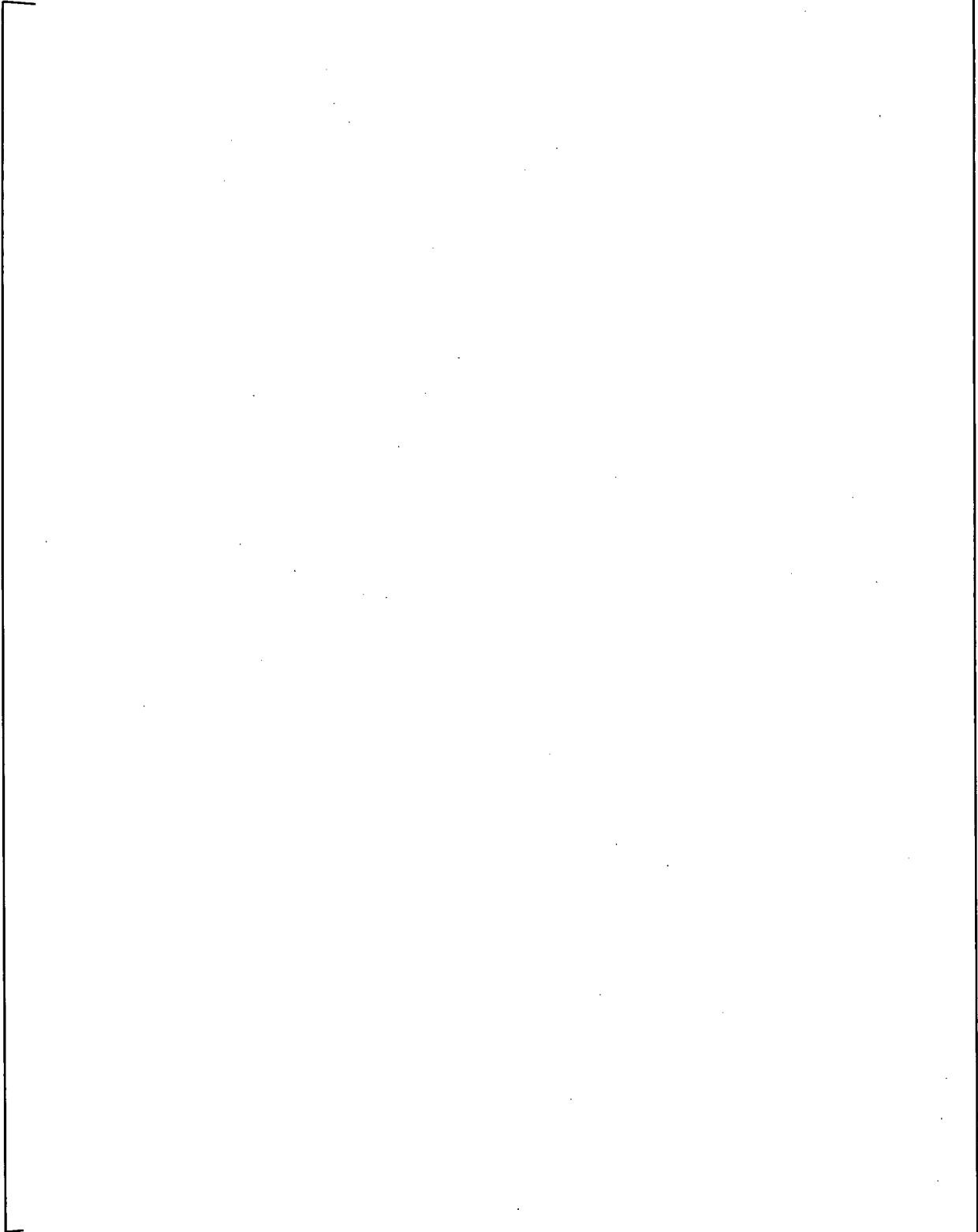
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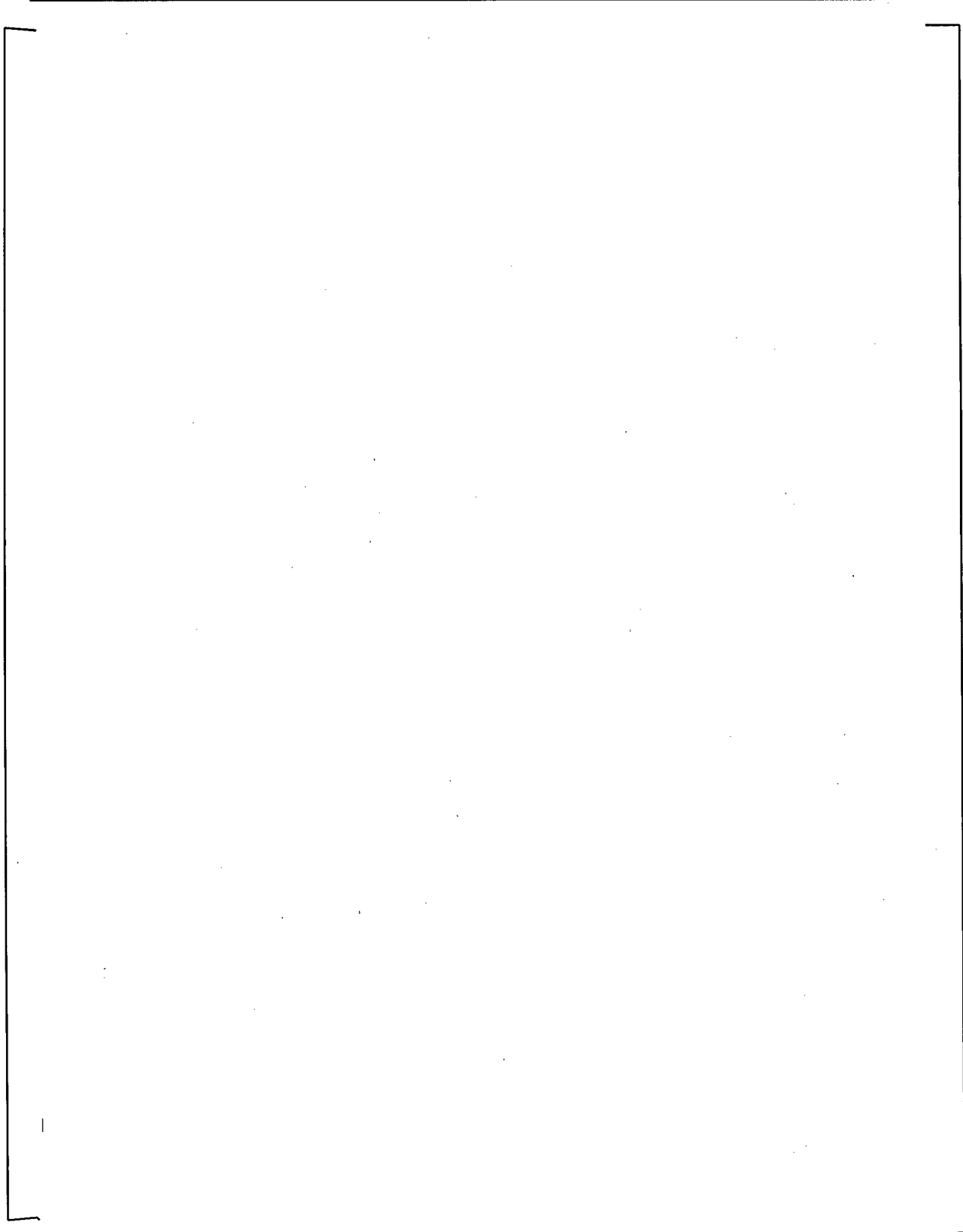
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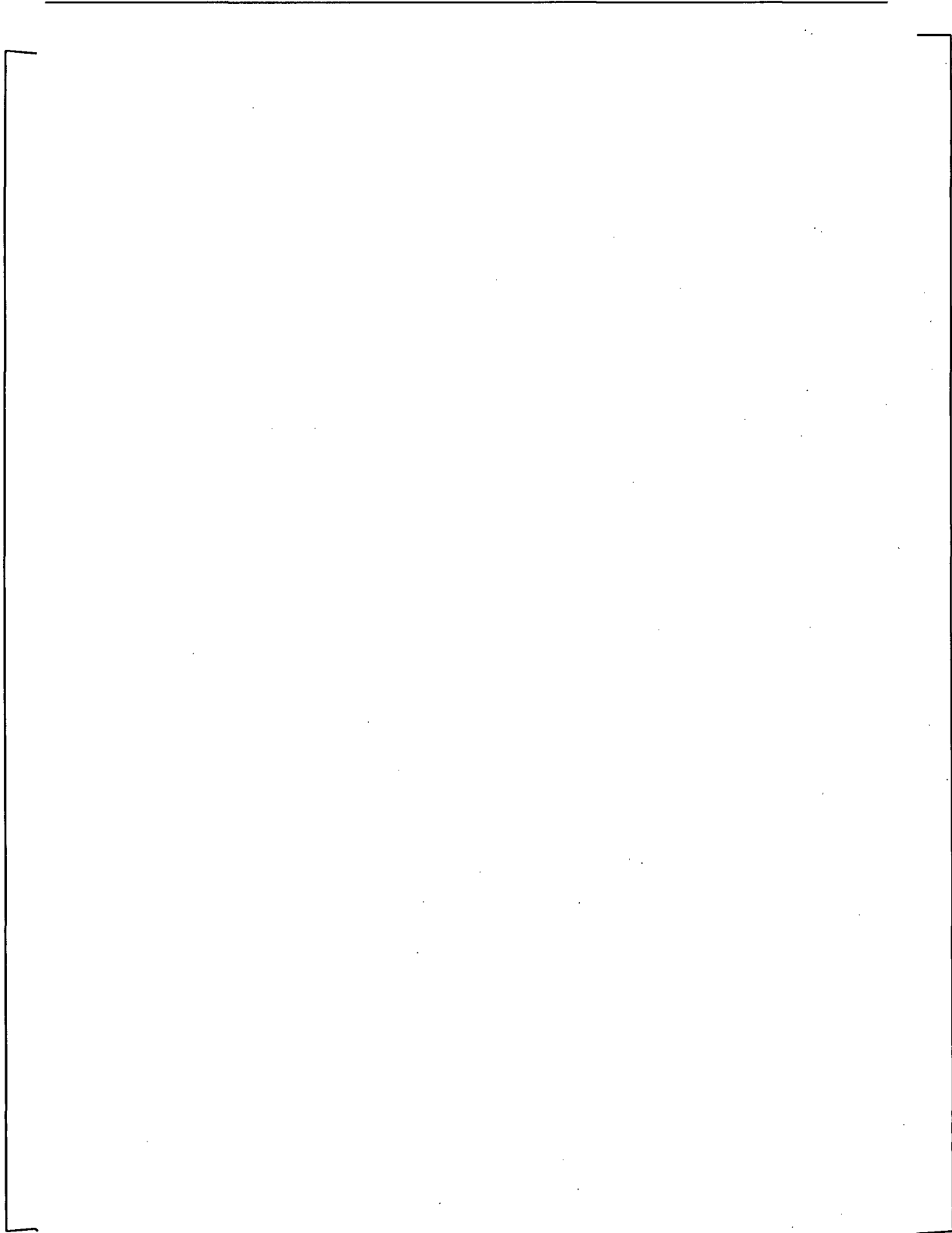
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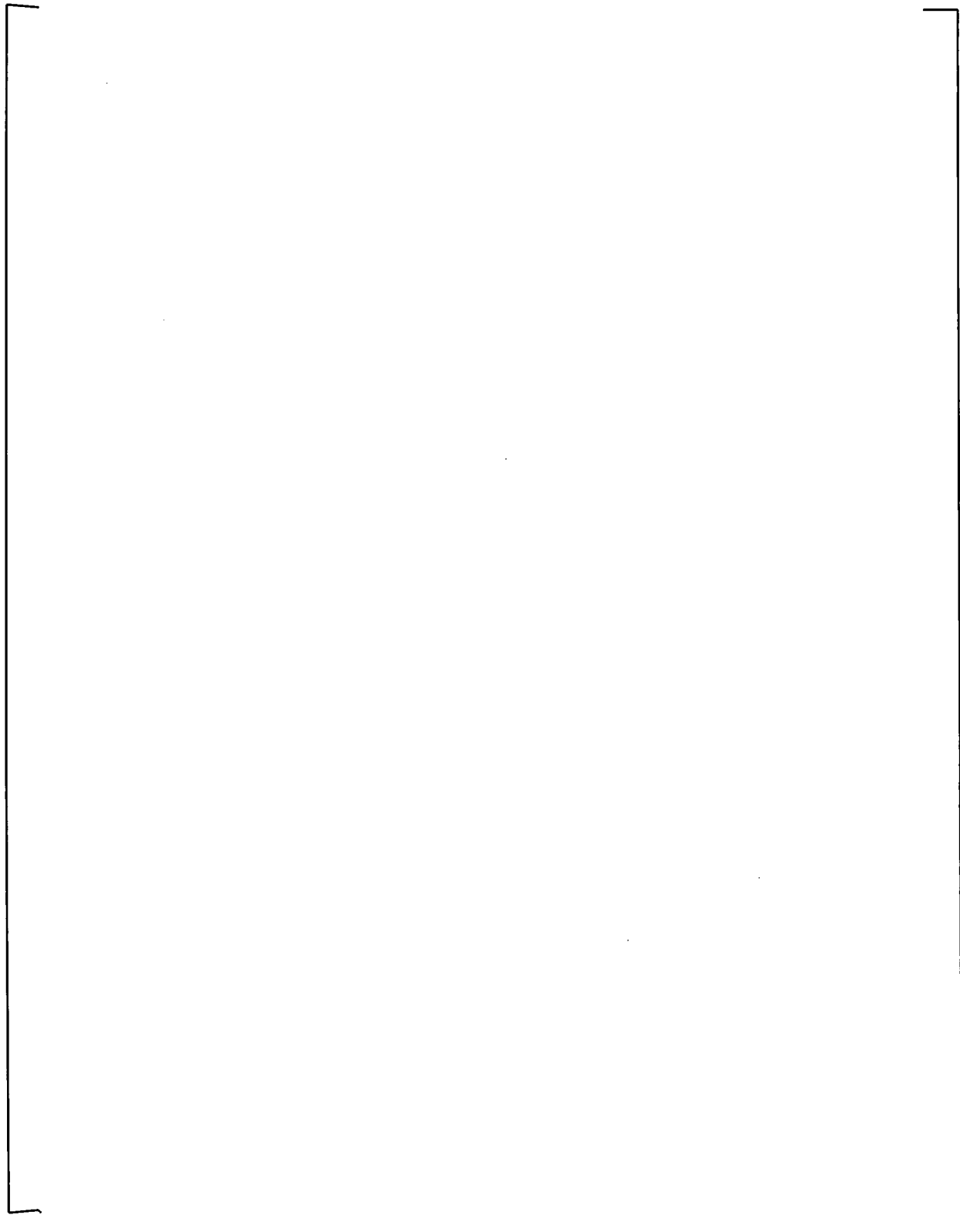
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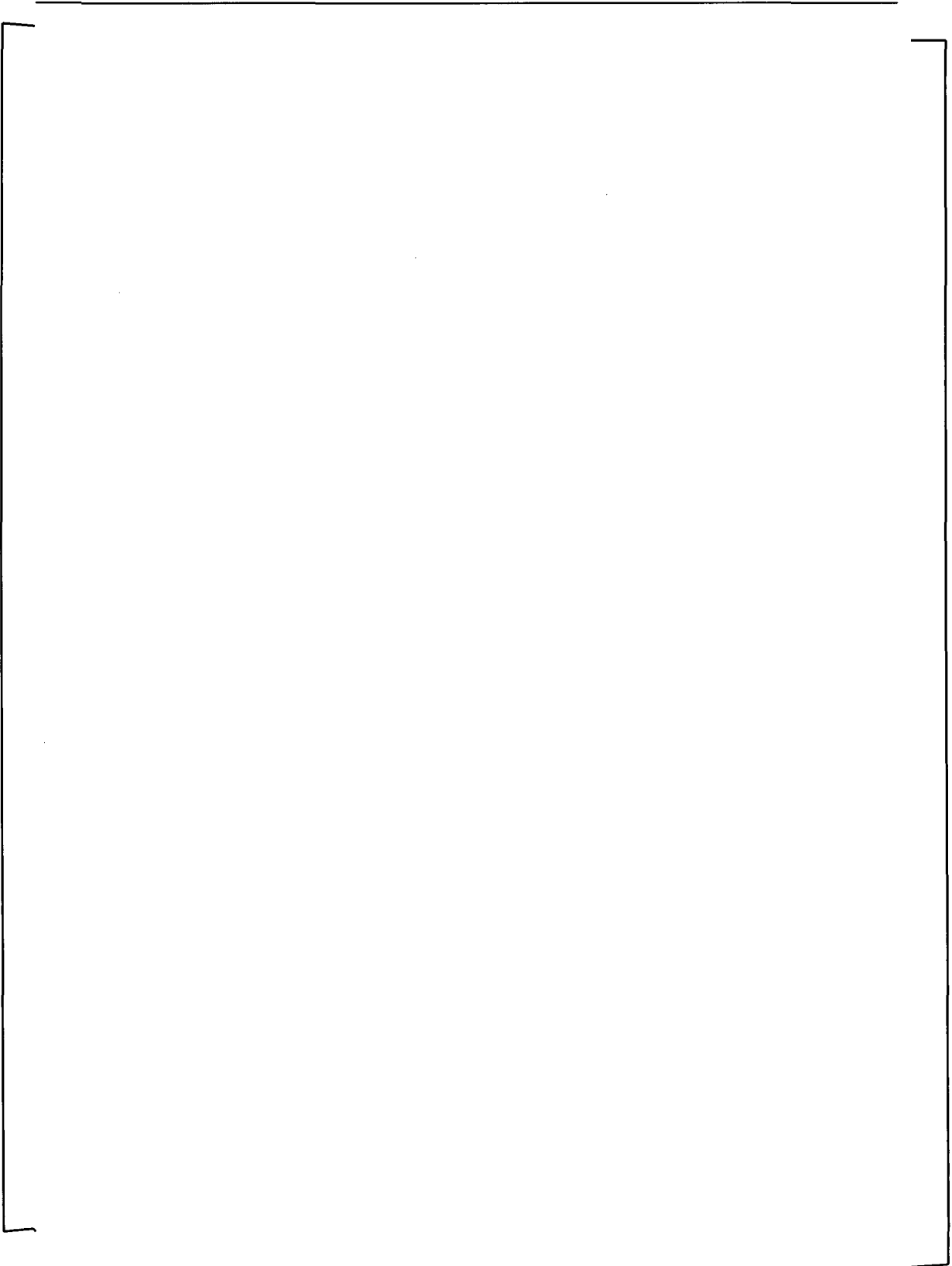
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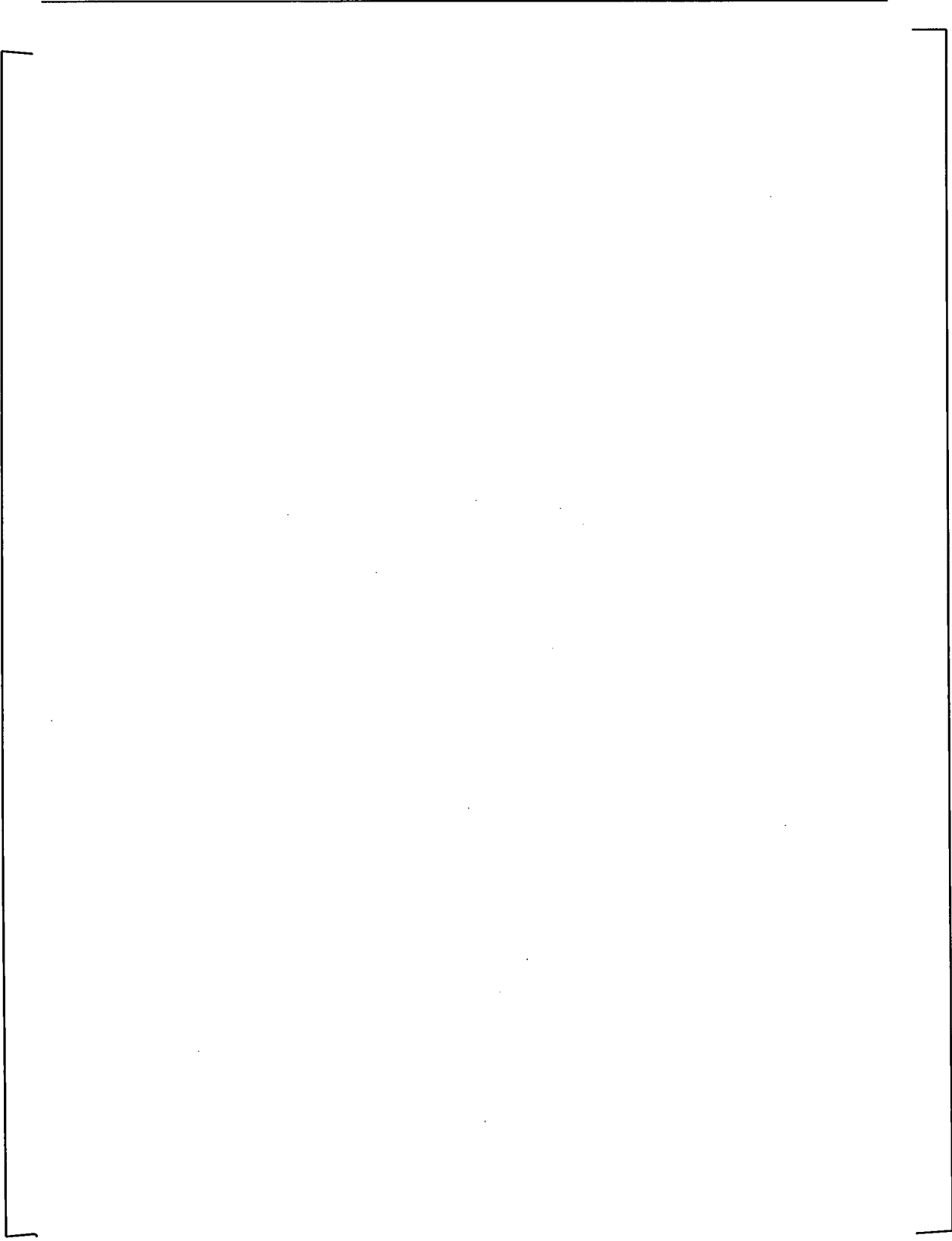
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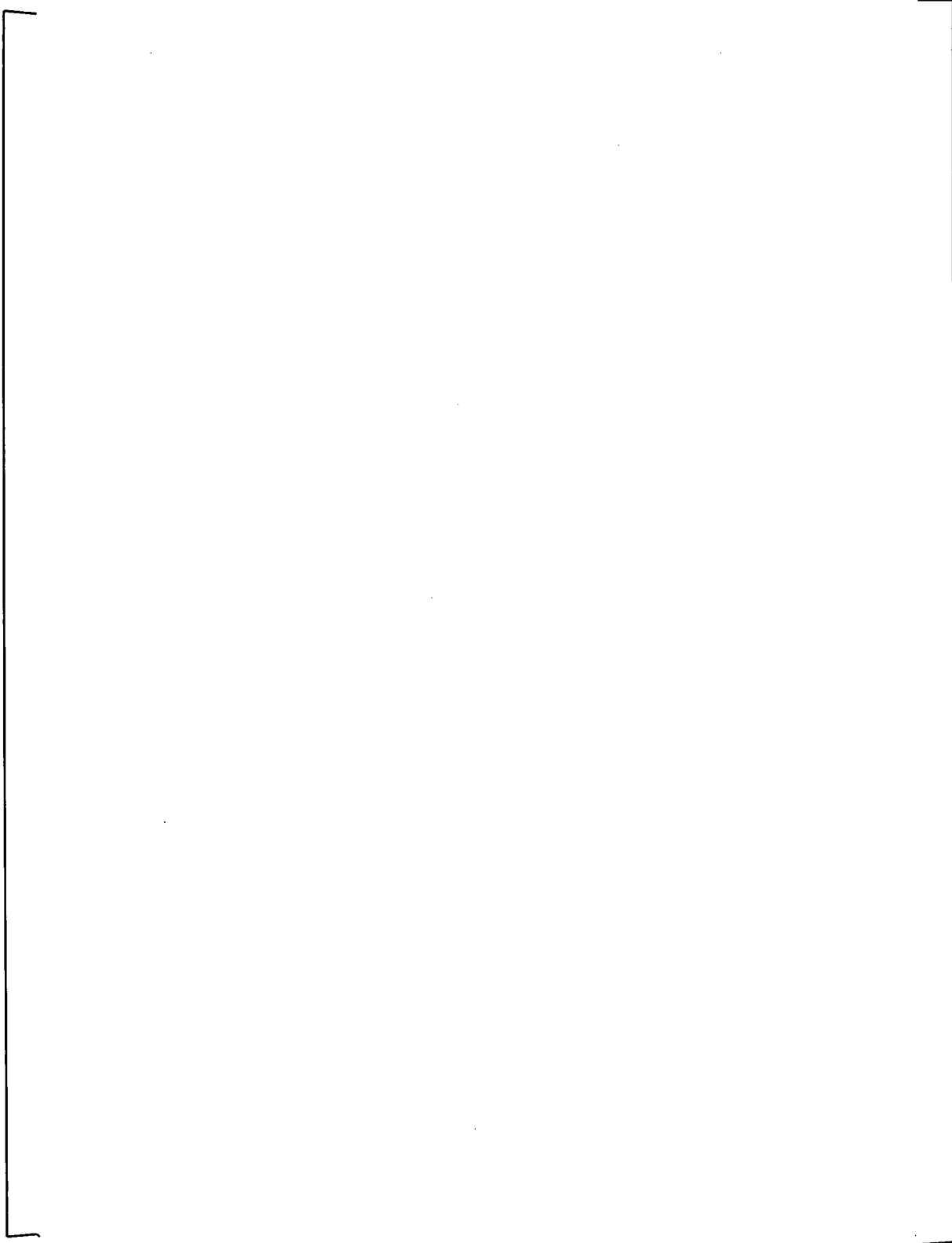
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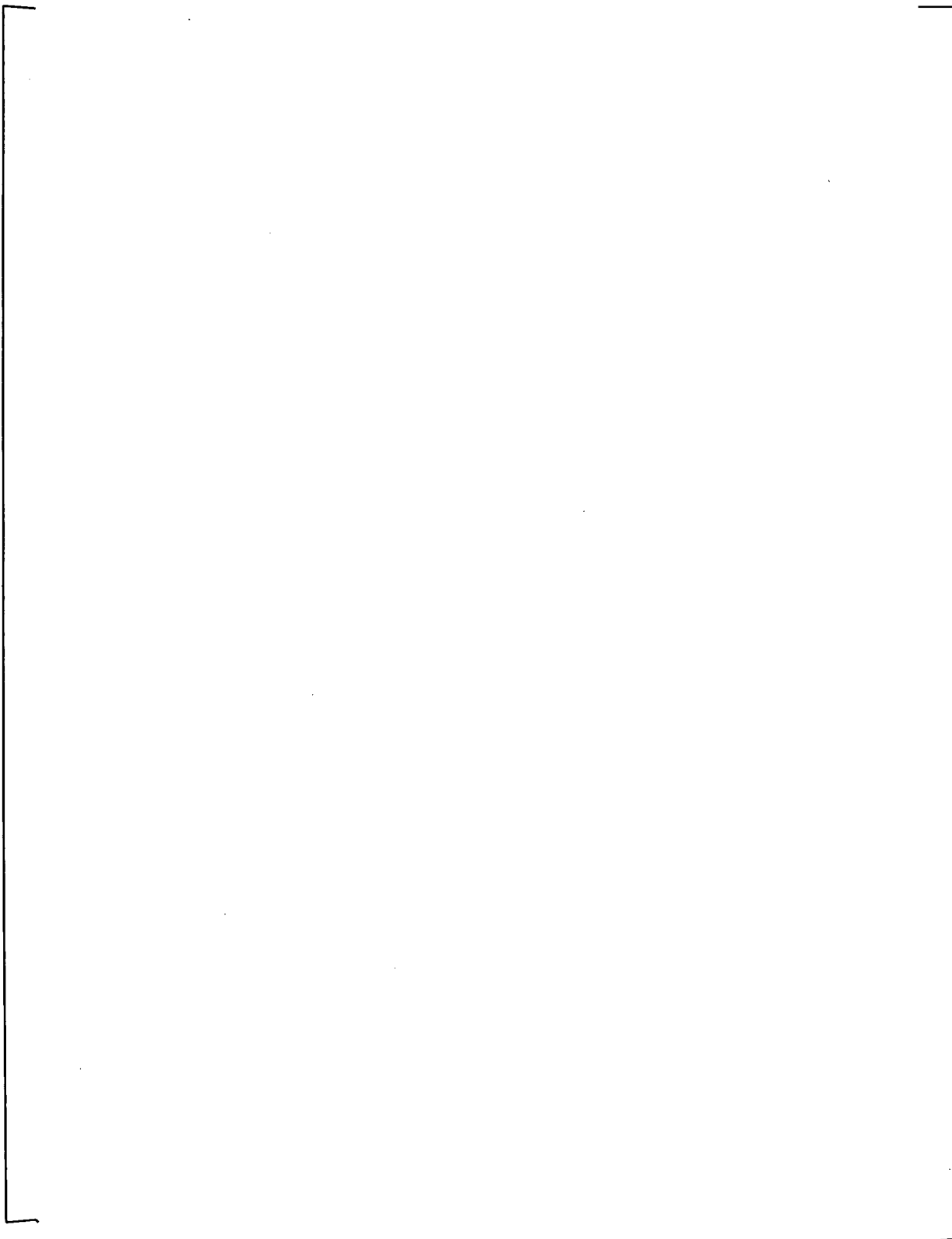
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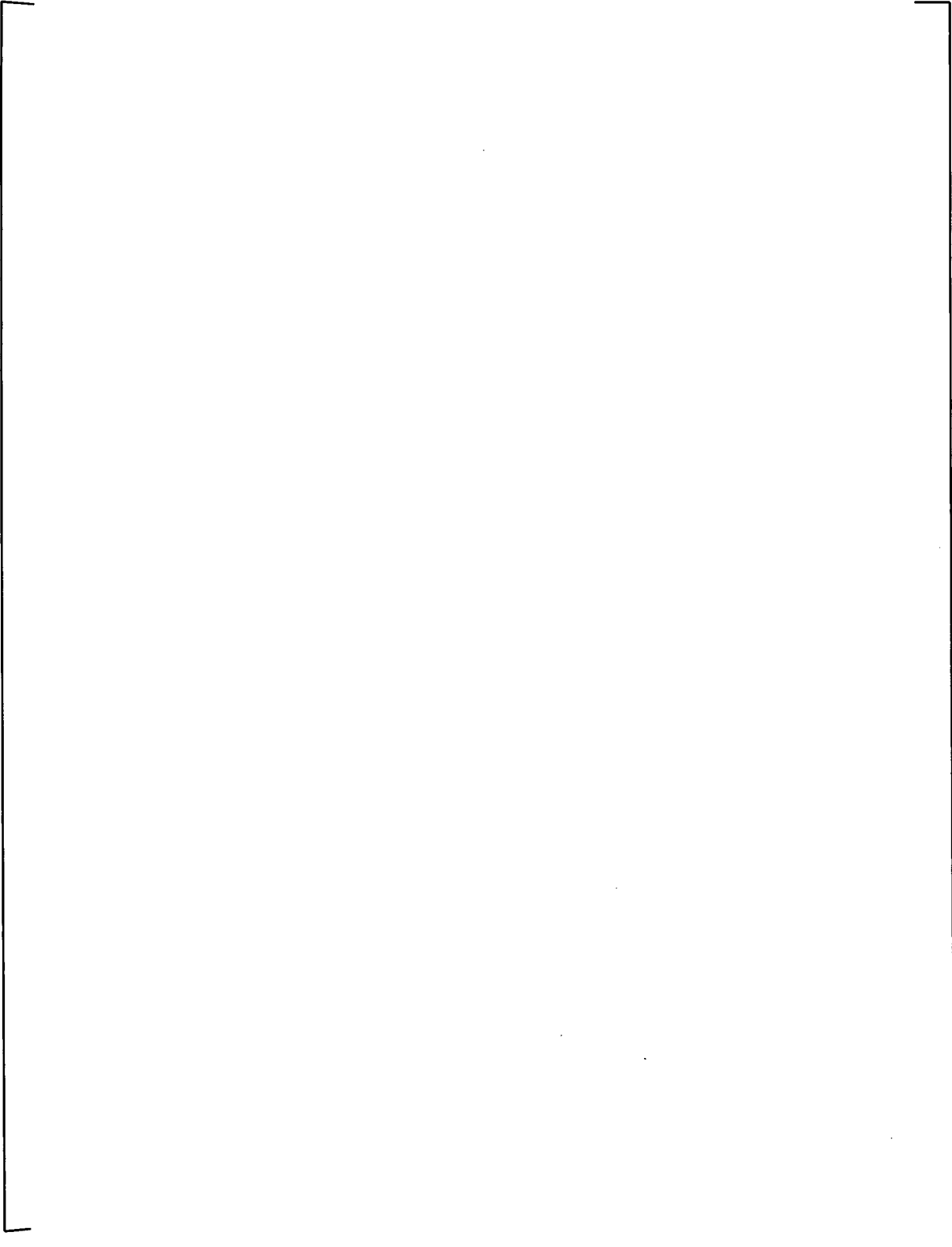
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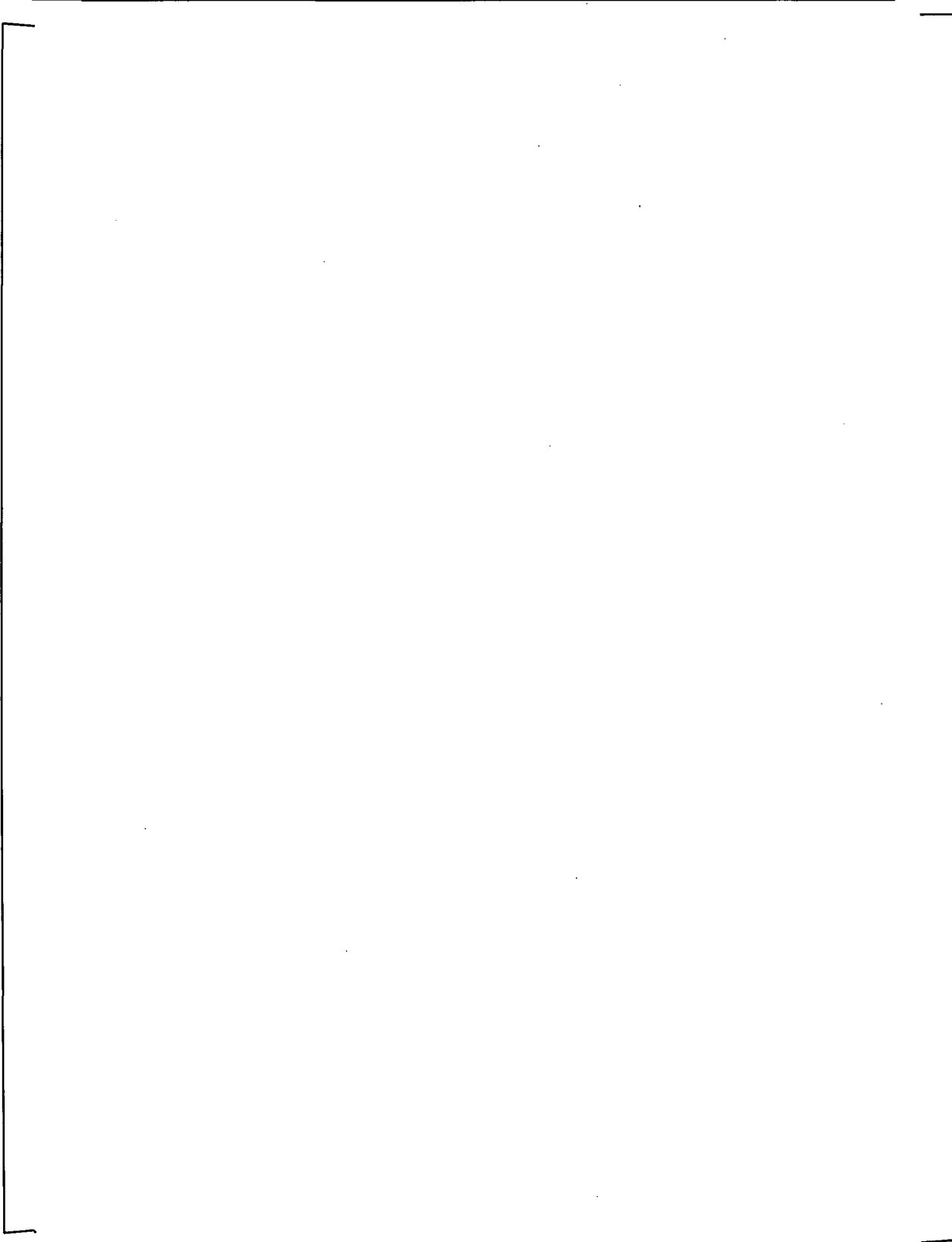
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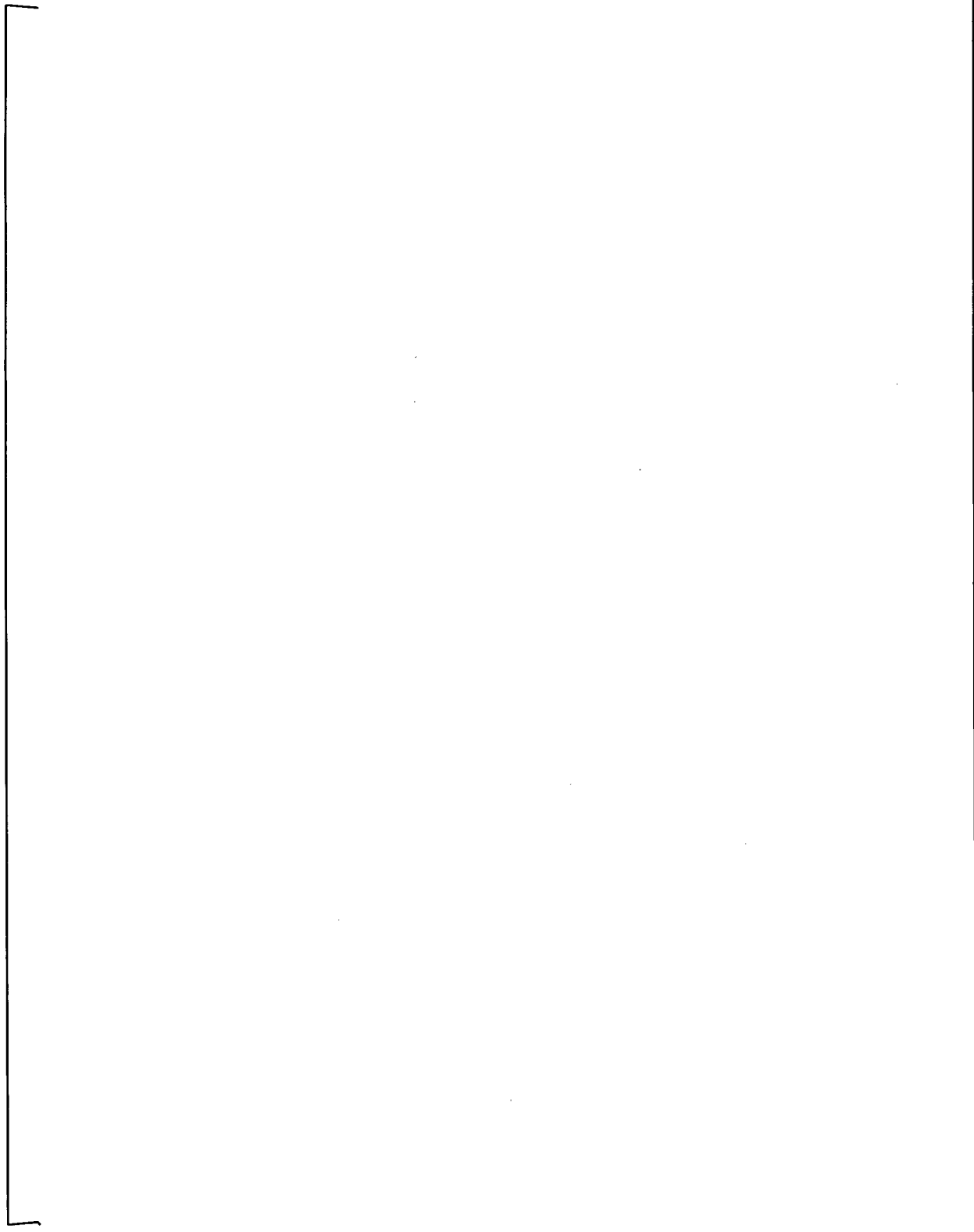
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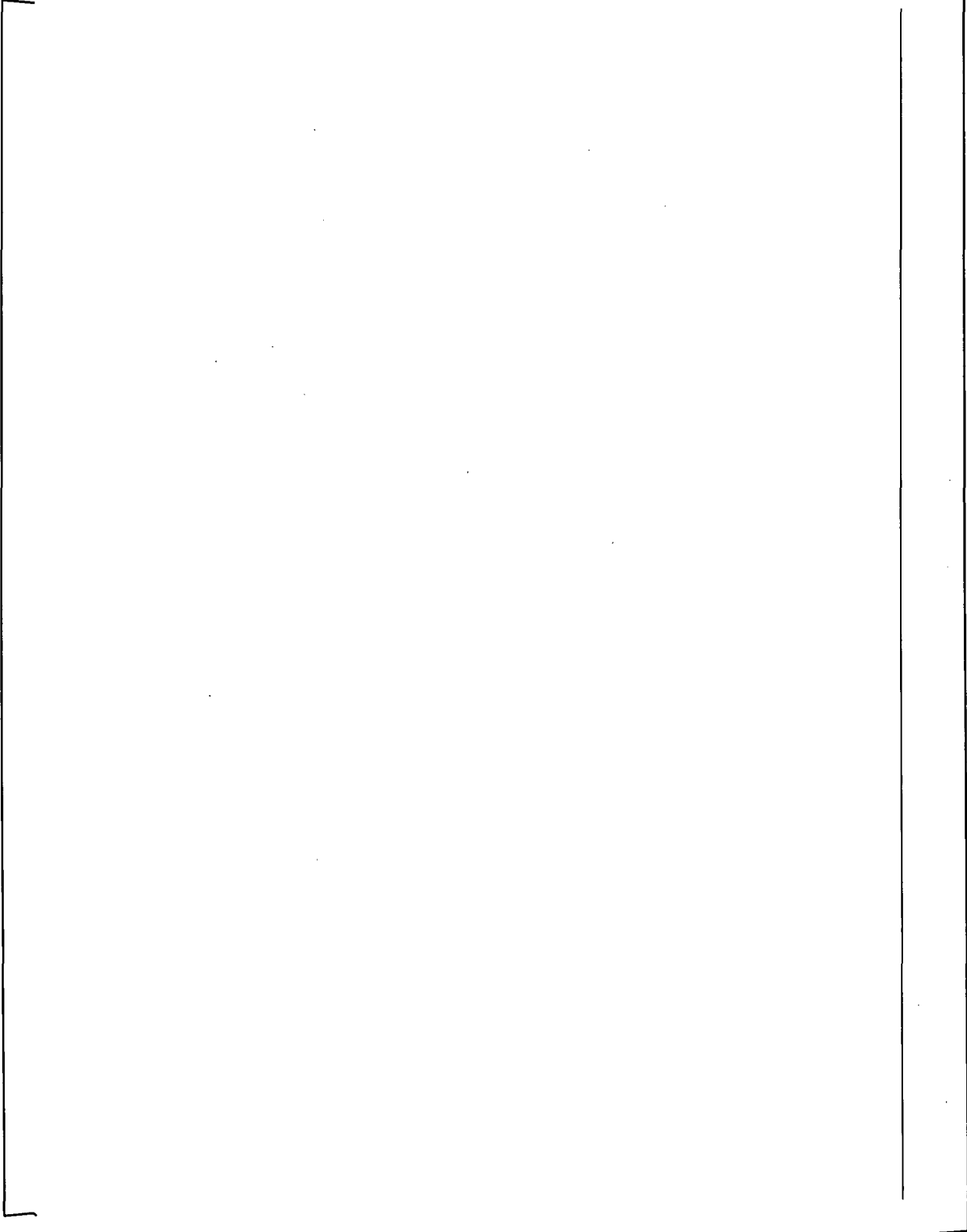
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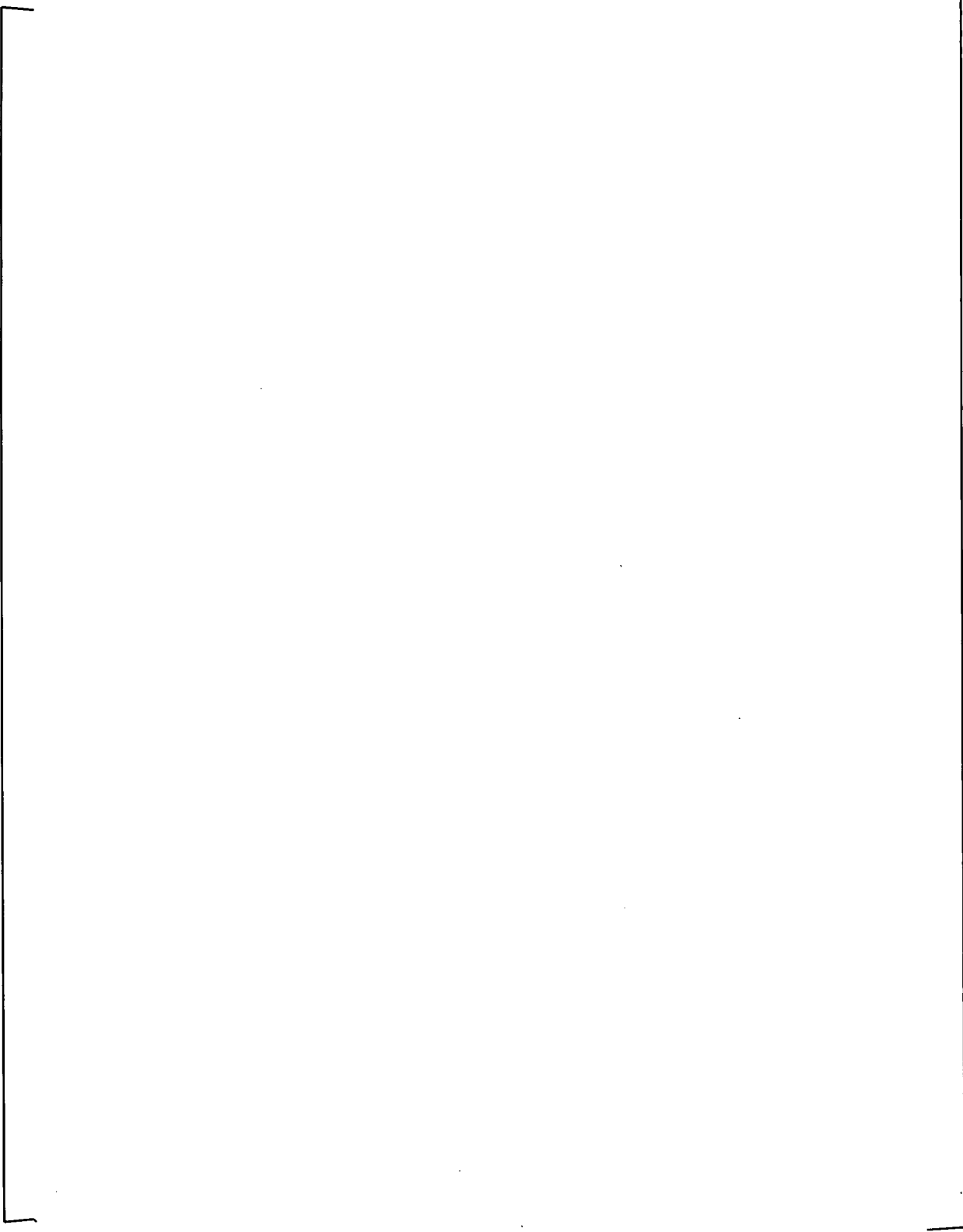
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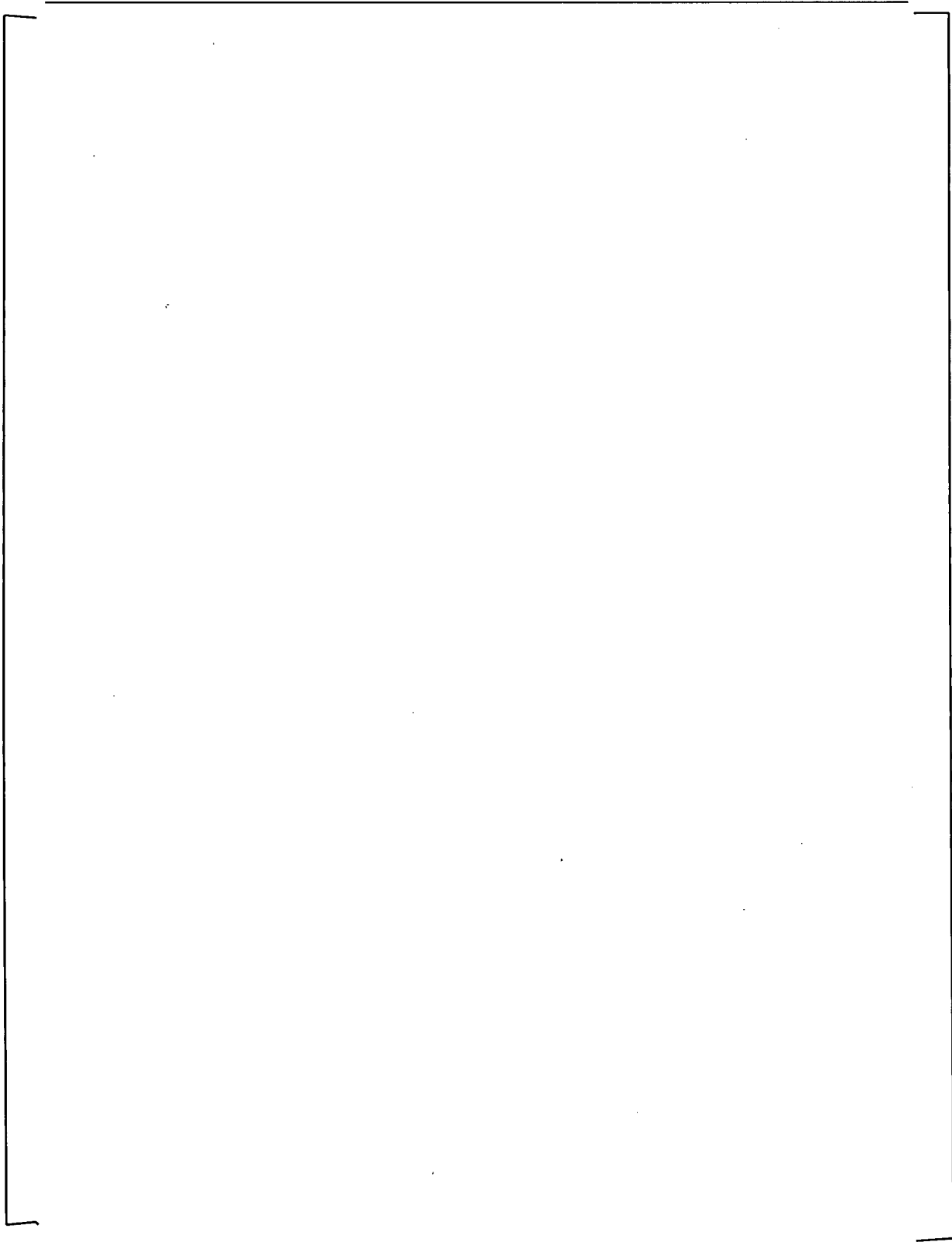
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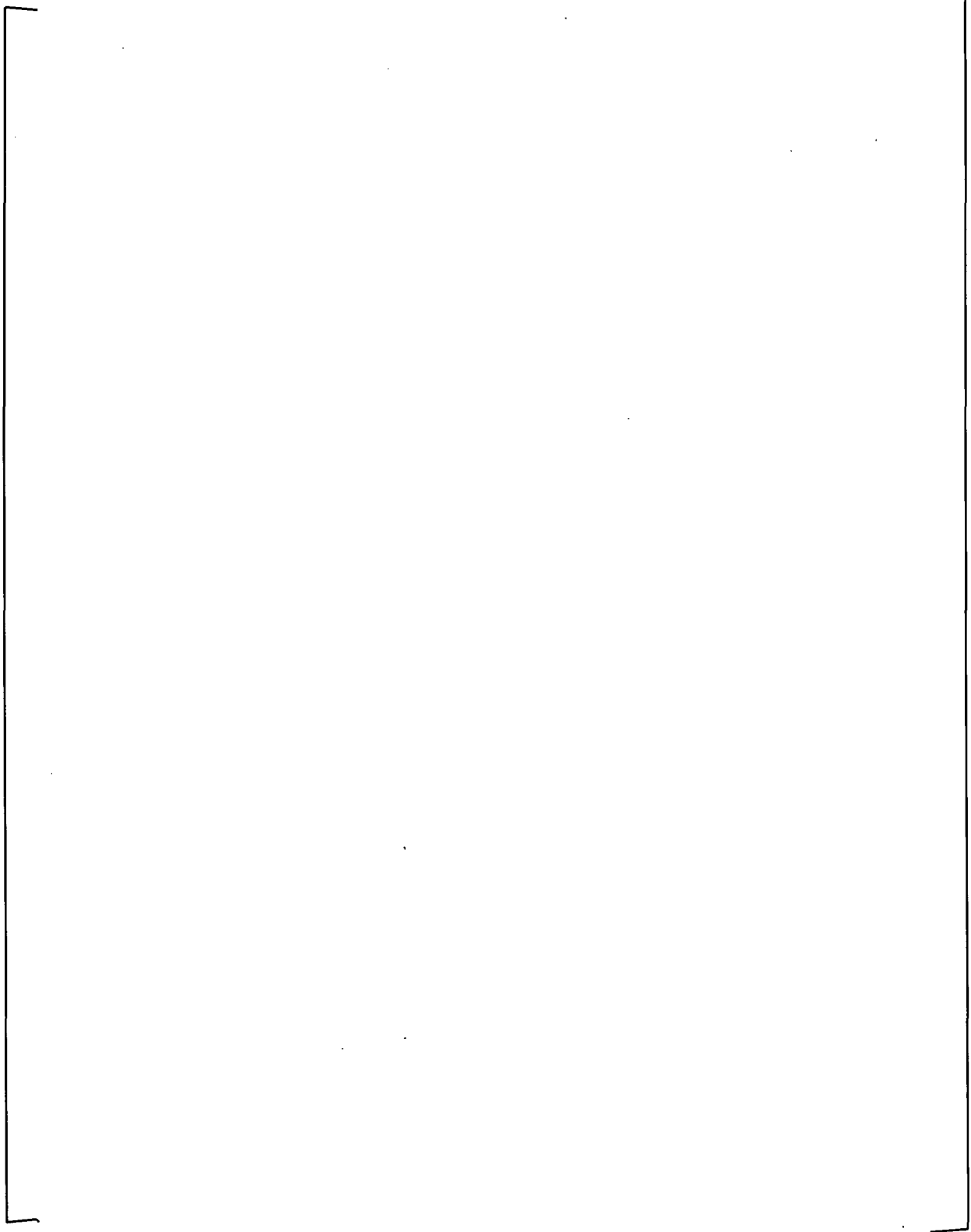
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## Work report (translation of selected chapters)

Ref. (Department/Year/Serial No.)

KWU NLL4/98/042

Title/Subject

General requirements specification:  
TXS simulator

Project

TXS simulation

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ZXS010	BN	1800 4000	

Summary \*

Pages of Text 25 Appen-  
dices -

This specification describes the general requirements on an I&C simulator for TELEPERM XS (TXS simulator). The simulator is intended for the testing and validation of the generated TXS program modules with respect to requirements from process engineering and their implementation in the I&C system and in this way to make it possible to detect engineering errors as early as possible.

(TXS simulator does not mean to simulate or emulate "TXS online software", but to implement a simulation environment for the "TXS online software".)

\*) In Technical Reports add key words (max. 12) at the end of summary; Minutes of Meeting to start with place, date and participants

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**Versions:**

Version	Date	Remarks
V 1.0	30.03.98	Preparation of the requirements specification

**Review:**

All written and oral contributions to this report were discussed. The review results were approved by the participants in the review and integrated into this report.

The reviewers listed below confirm this by their signature:

Name	Department	Telephone	Date	Signature
Mr. Sebillé	NLL4			
Dr. Zienert	NLL3			

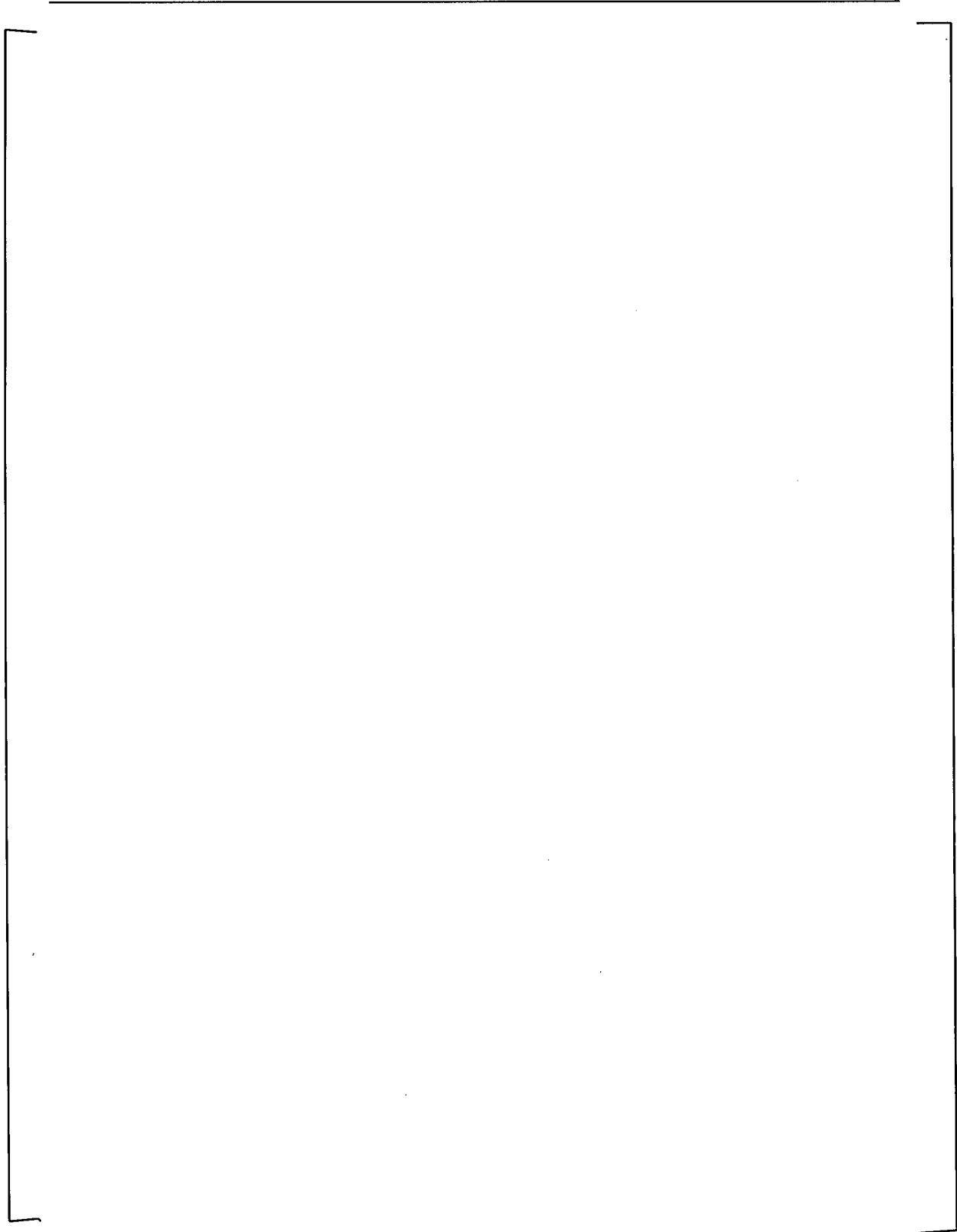
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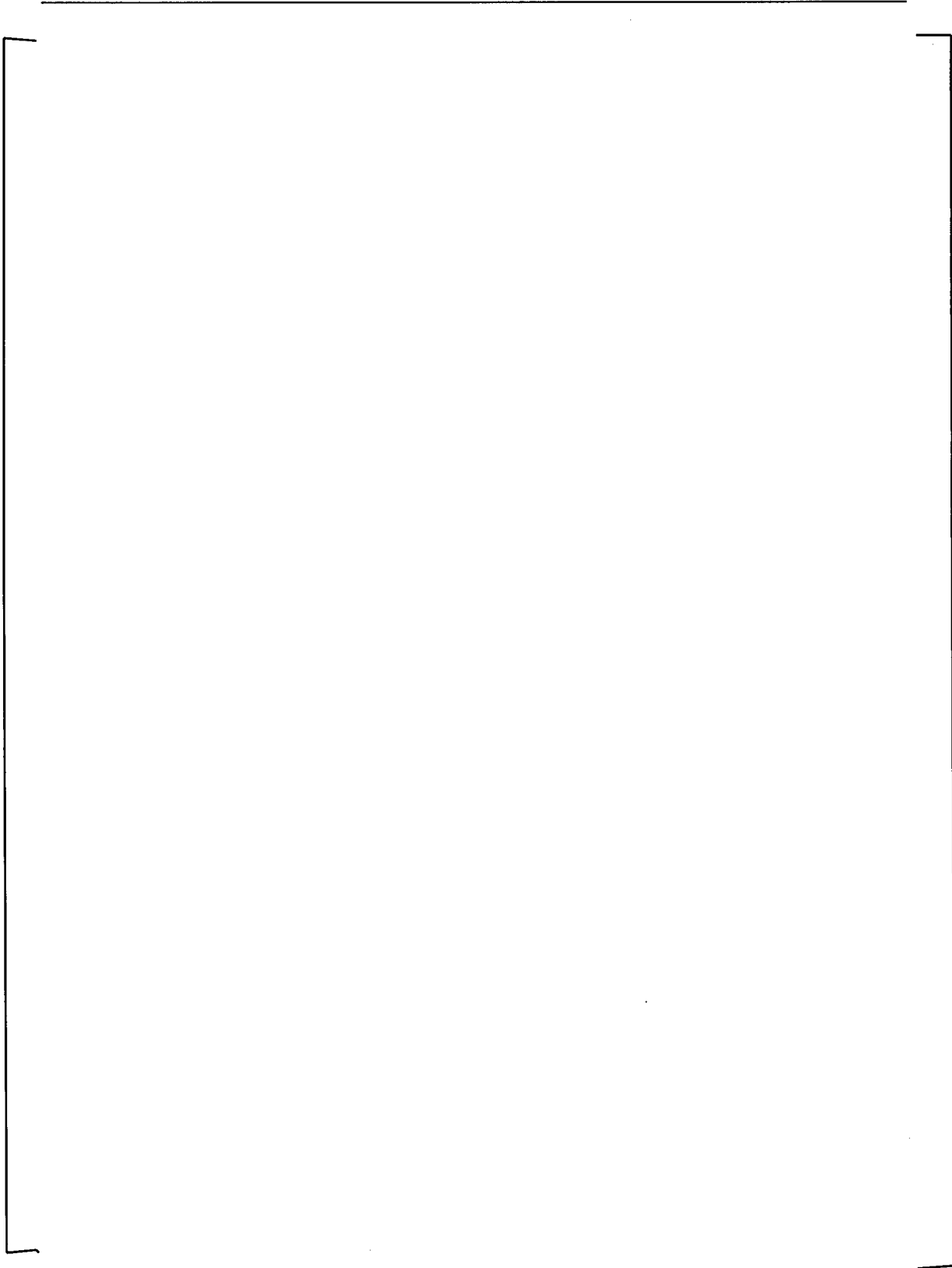
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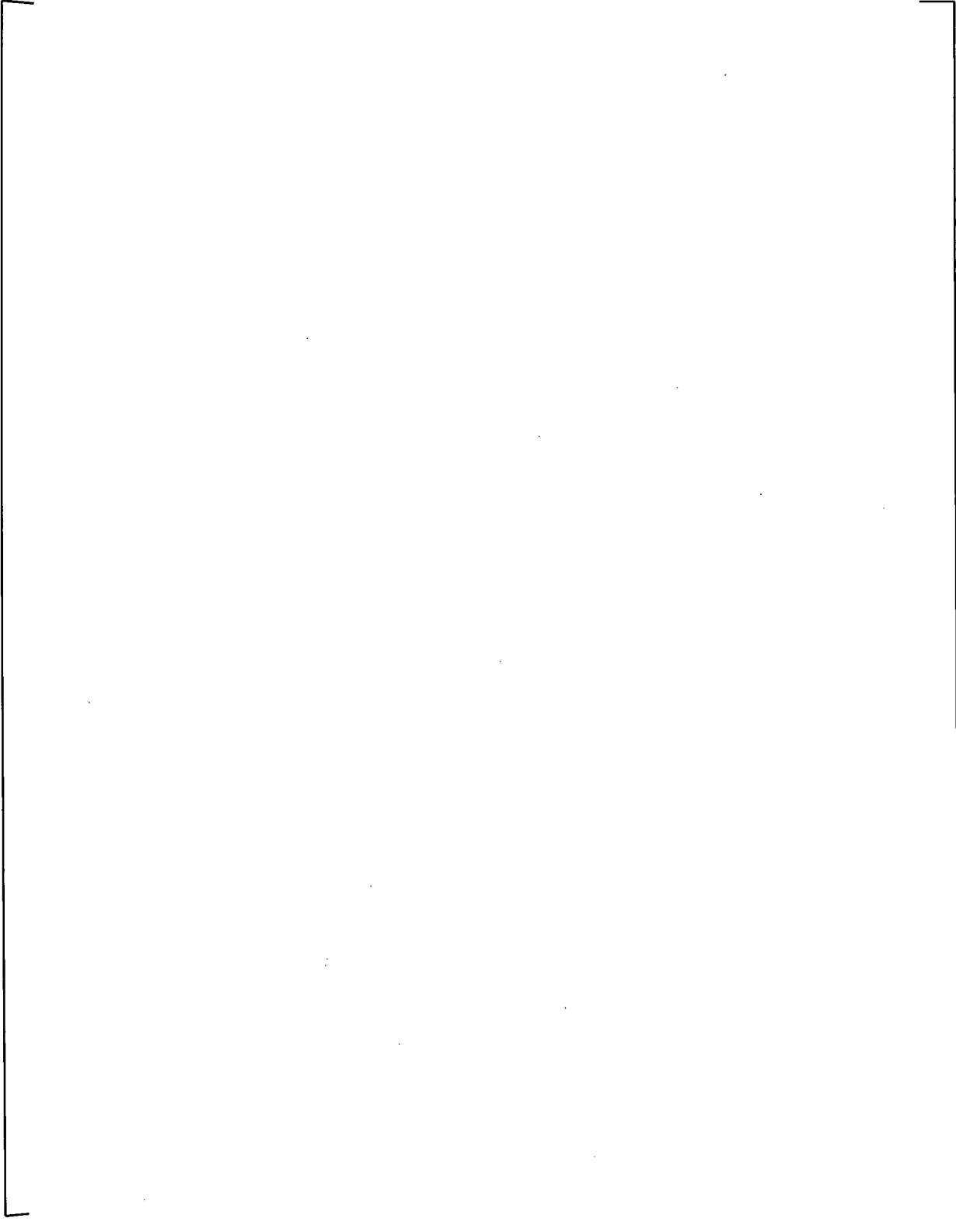
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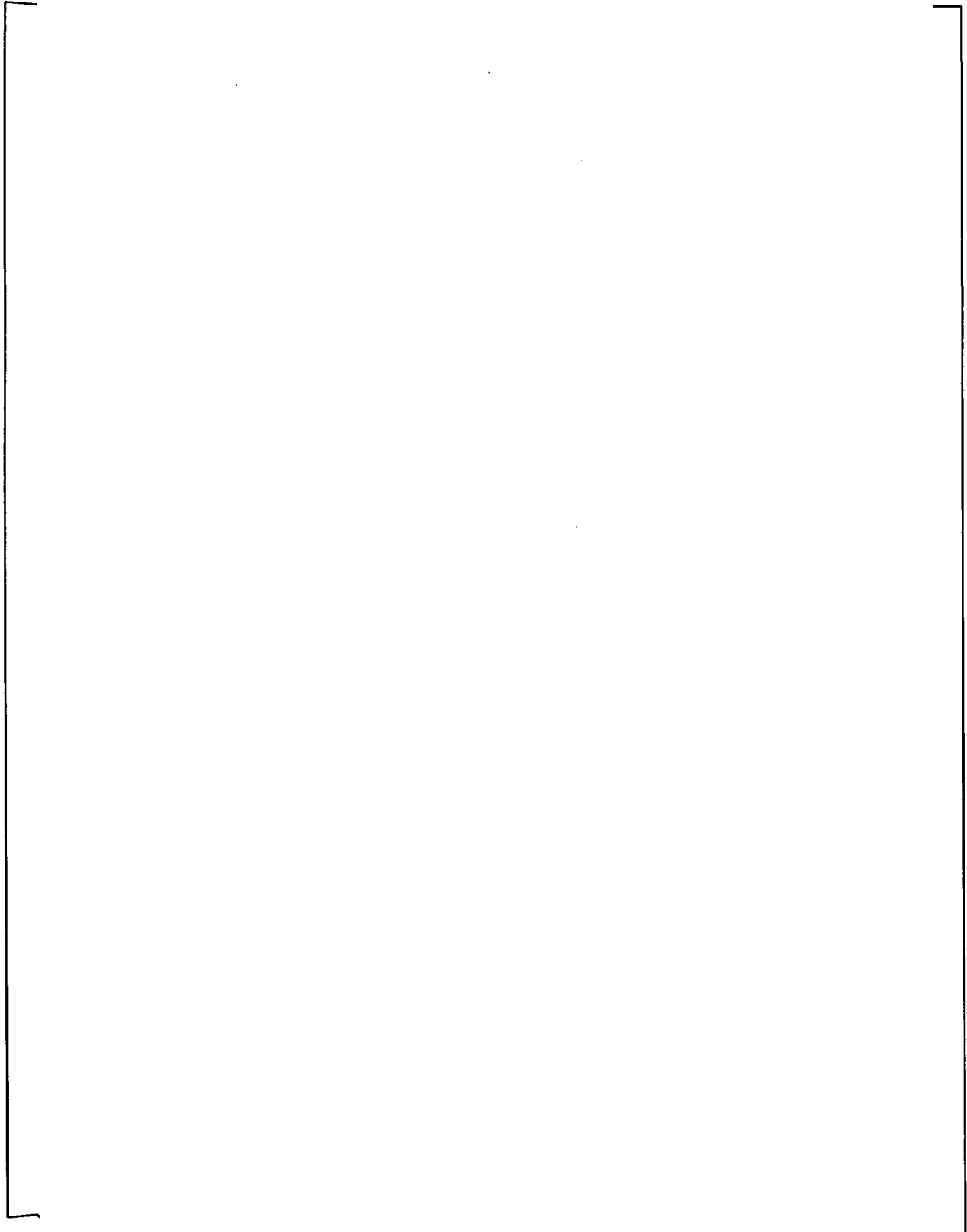
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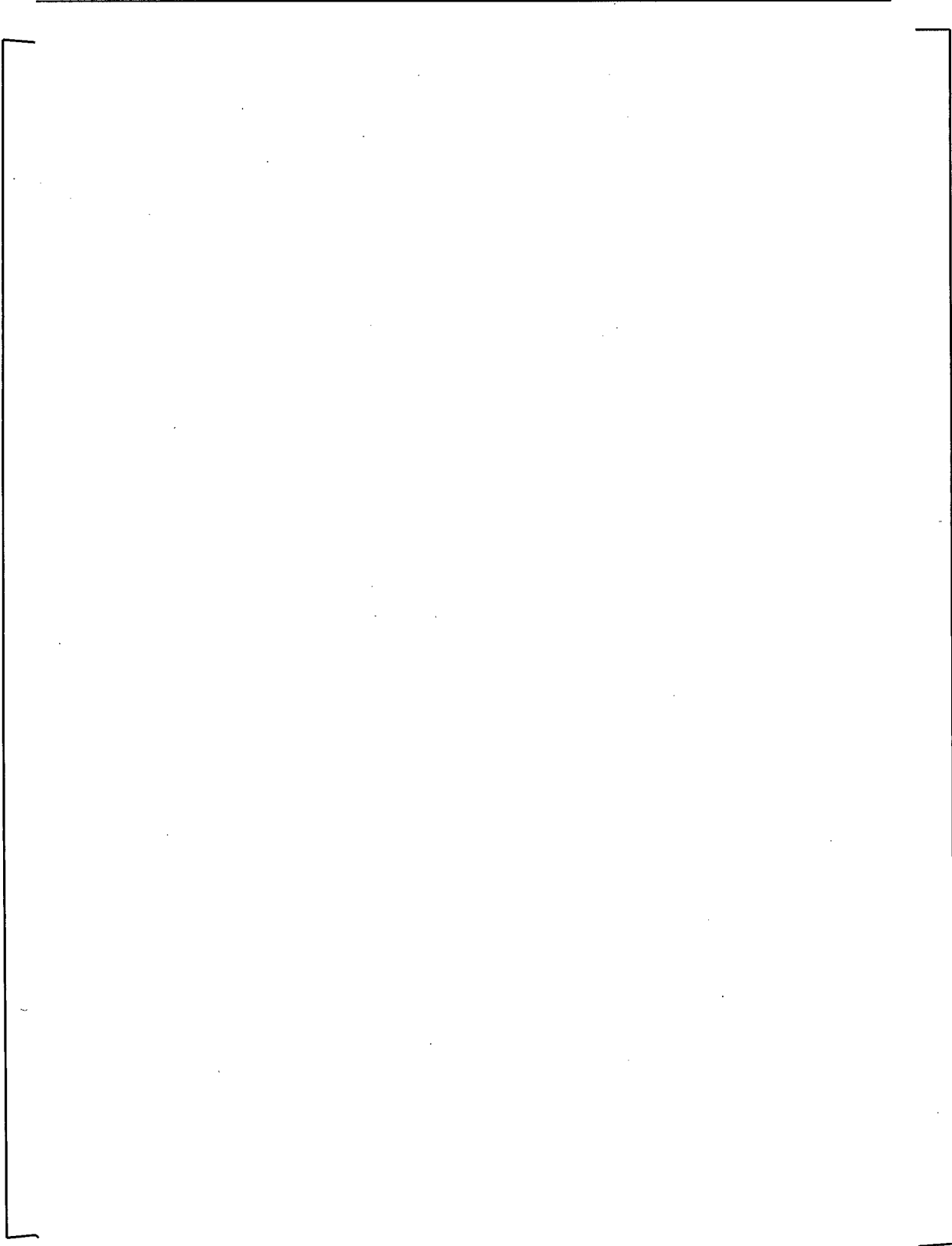
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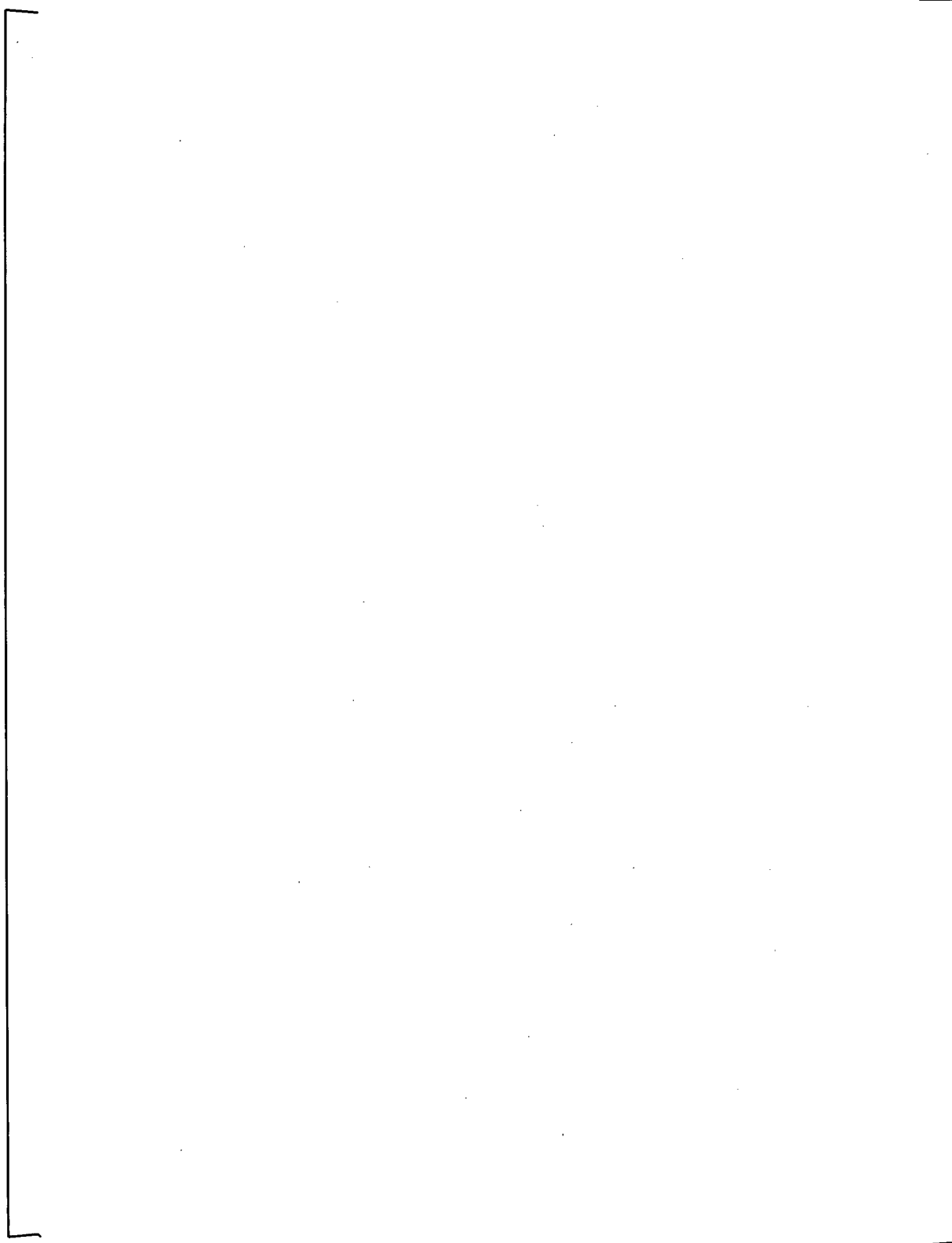
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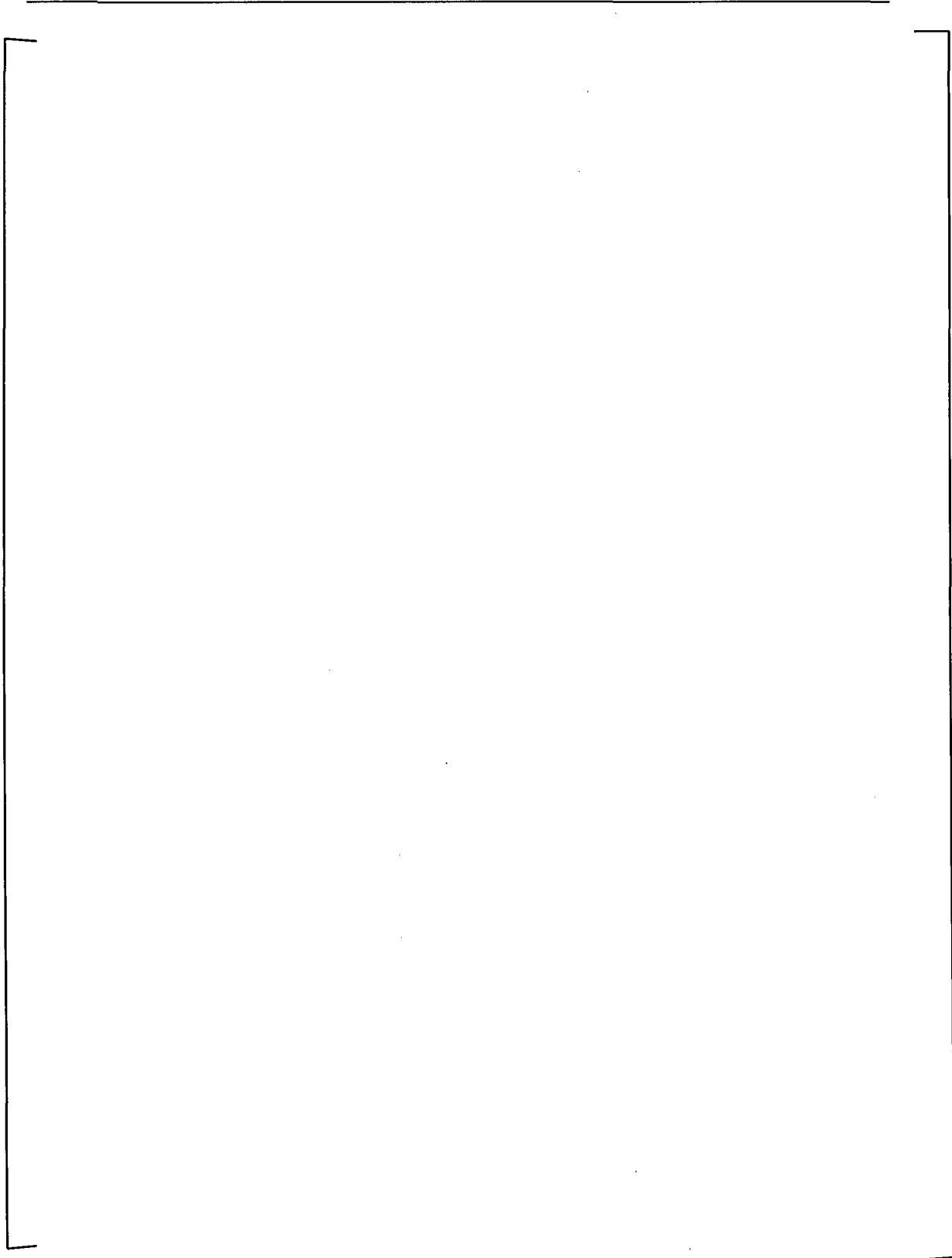
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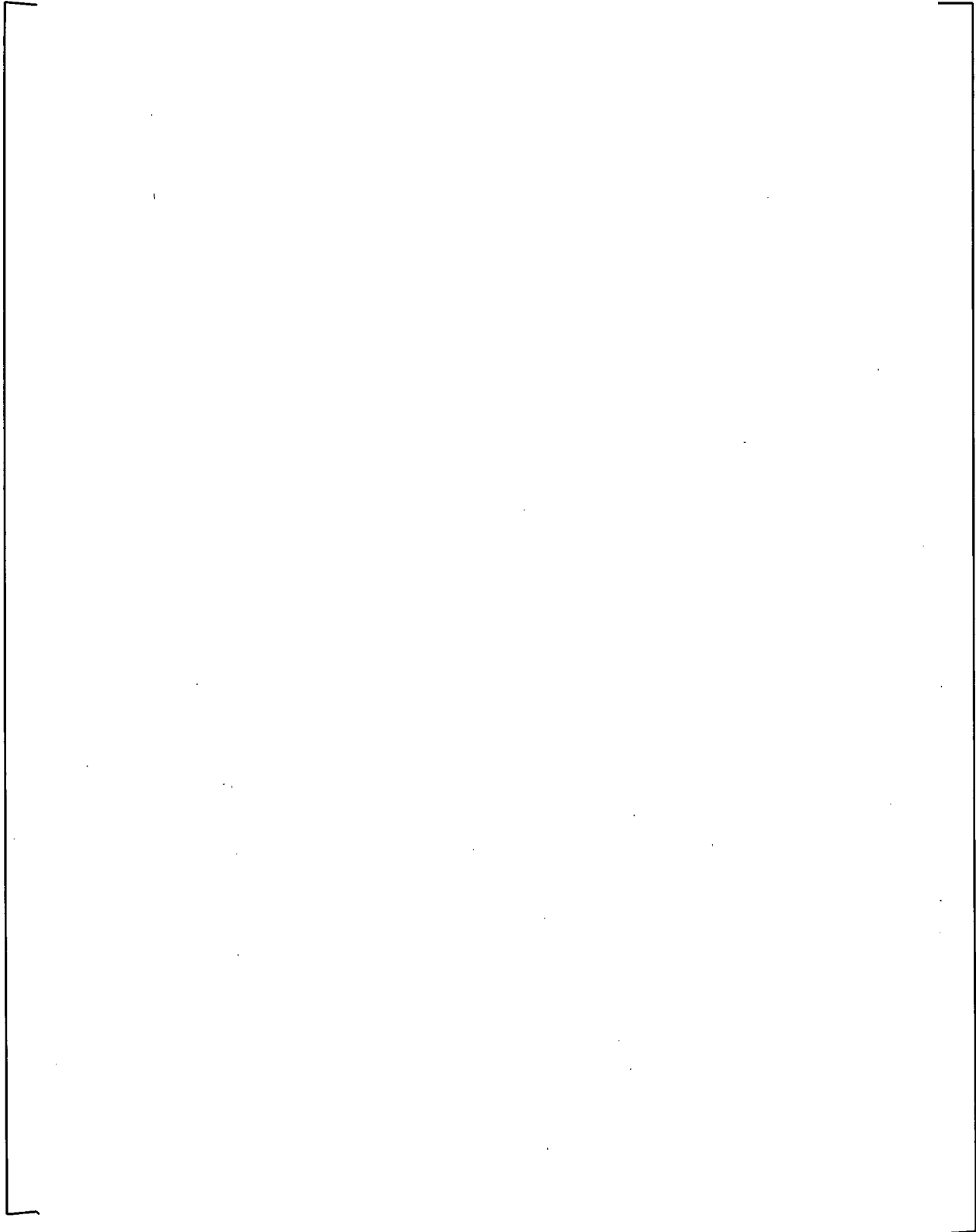
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