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Photos - PepCo
Submerged Cable
Willamette River (ca. 1945)

Collection number ORG LOT 274
Author/Title or description
John S. Volpe Collection

Citation Forms for Collections at the Oregon Historical Society Research Library

Manuscripts
[Description of item], [date], [Collection name], Mss [#], Box [#]/Folder [#], [Negative number*, if present], Oregon Historical Society Research Library.
Example:
Letter from William Clark to Eva Emery Dye, 12 January 1890, Eva Emery Dye Papers, MSS 1089, Box 2/Folder 6, ba999999, Oregon Historical Society Research Library.

Photographs
Organized Lots
[Description of image], [date], [Org. lot name], Org. Lot [number], Box [#]/Folder [#], [Negative number,* if present], Oregon Historical Society Research Library.
Example:
Governor Tom McCall visits an Oregon Beach, May 1967, Tom Lawson McCall Photographs Collection, Org. Lot 353, Box 1/Folder 6, ba999999, Oregon Historical Society Research Library.

Self-indexing photo files
[Description of image], [date], Self-indexing photo file [#], [Negative number,* if present], Oregon Historical Society Research Library.
Example:
Masonic Temple, Astoria, Oregon, 13 November 1975, Self-indexing photo file #58-B-1, OrHi 23242, Oregon Historical Society Research Library.

Photographs card catalog (Computer cards)
[Description of image], [date], Photographs card catalog, [Negative number], Oregon Historical Society Research Library.
Example:
Alason Beers House Mission Bretton on Mission Hospital site, circa 1899, Photographs card catalog, OrHi 76872, Oregon Historical Society Research Library.

Maps
[Title], [date], [negative number or call number], Oregon Historical Society Research Library.
Example:
Street Map of Portland, 1958, G4294.P6 1958 .H6, Oregon Historical Society Research Library.

Oral Histories
[Interview name], SR [#], [Tape # and side or Transcript p. #], Oregon Historical Research Library.
Example:
Celilo Falls Series, SR 967, Tape 3, Side 1, Oregon Historical Society Research Library.

Books, Pamphlets & Serials Follow standard format for citing published materials.

Newspapers
Tyler Fox, "Bigfoot Seen in Bend," *Oregonian*, March 14, 1986, p. 6 column 3.

Scrapbooks
Scrapbook 56, p. 14, Oregon Historical Society Research Library.

Vertical Files
"Portland-Neighborhoods-Richmond," Vertical File, Oregon Historical Society Research Library.

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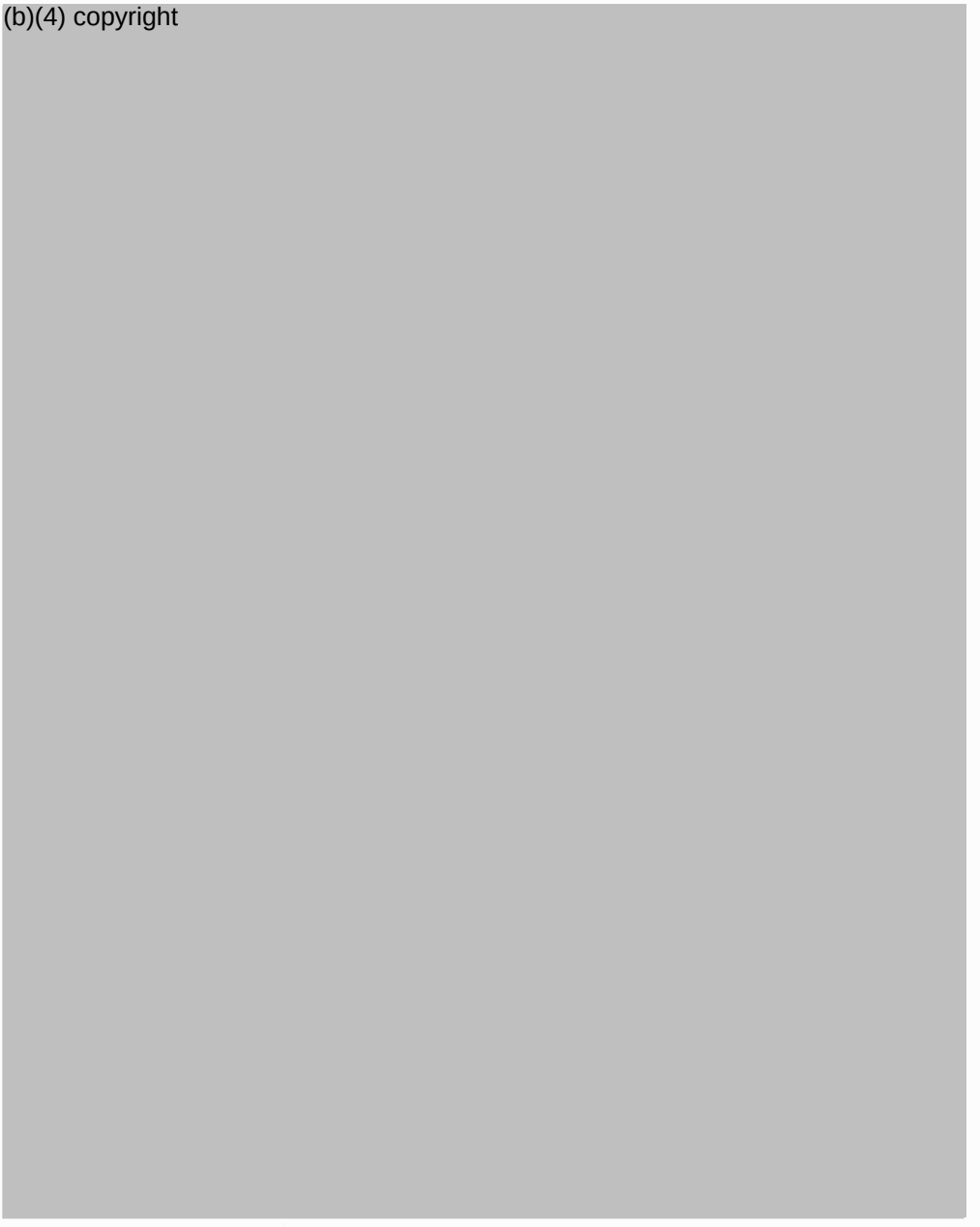

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Photo Album - First Submerged Electrical Cable - Pepco (ca. 1945)

Collection number ORG LOT 274
Author/Title or description
John S. Volpe Collection

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[Interview name], SR [#], [Tape # and side or Transcript p. #], Oregon Historical Research Library.
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Vertical Files
"Portland-Neighborhoods-Richmond," Vertical File, Oregon Historical Society Research Library.

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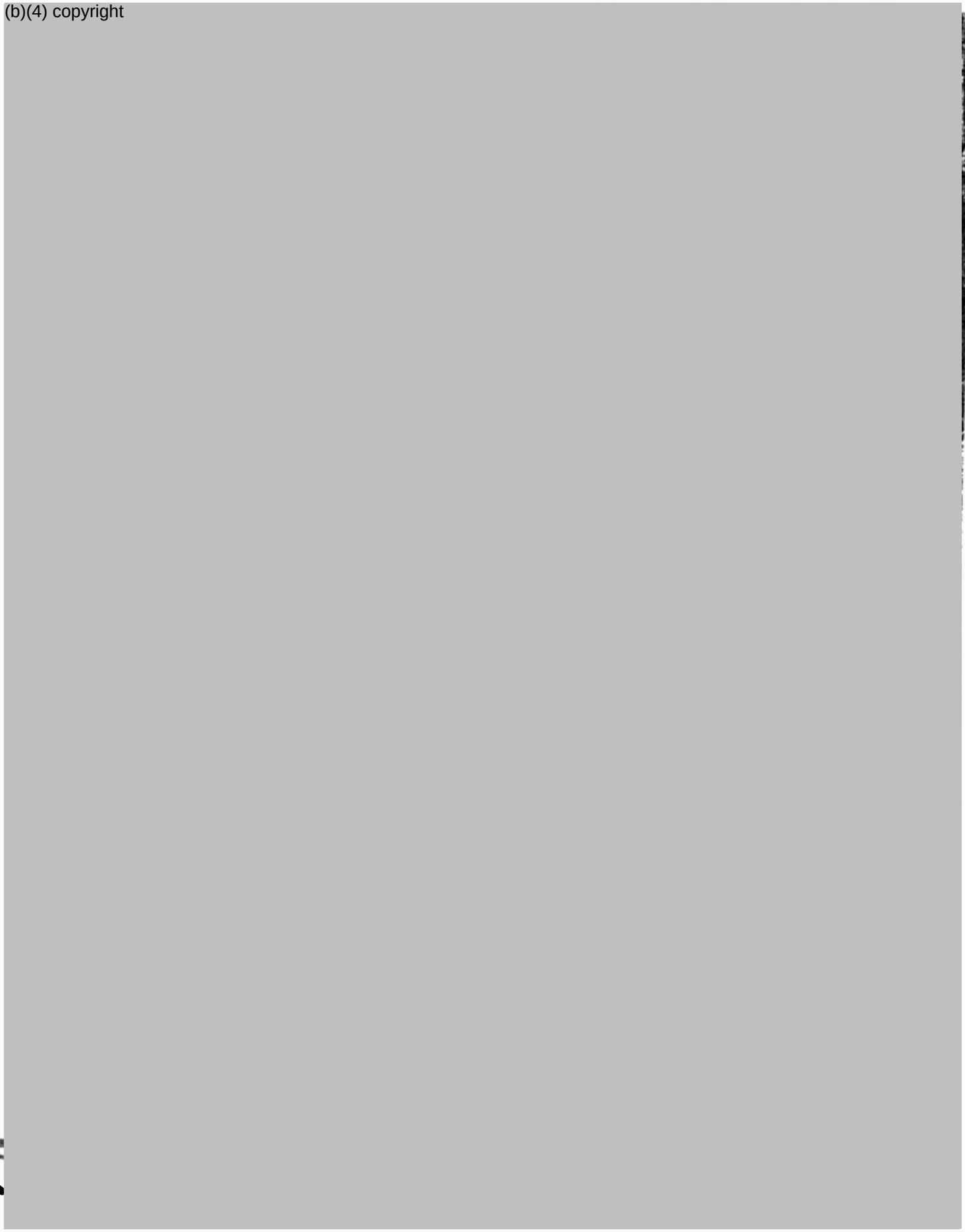

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Cable Terminal
Guards

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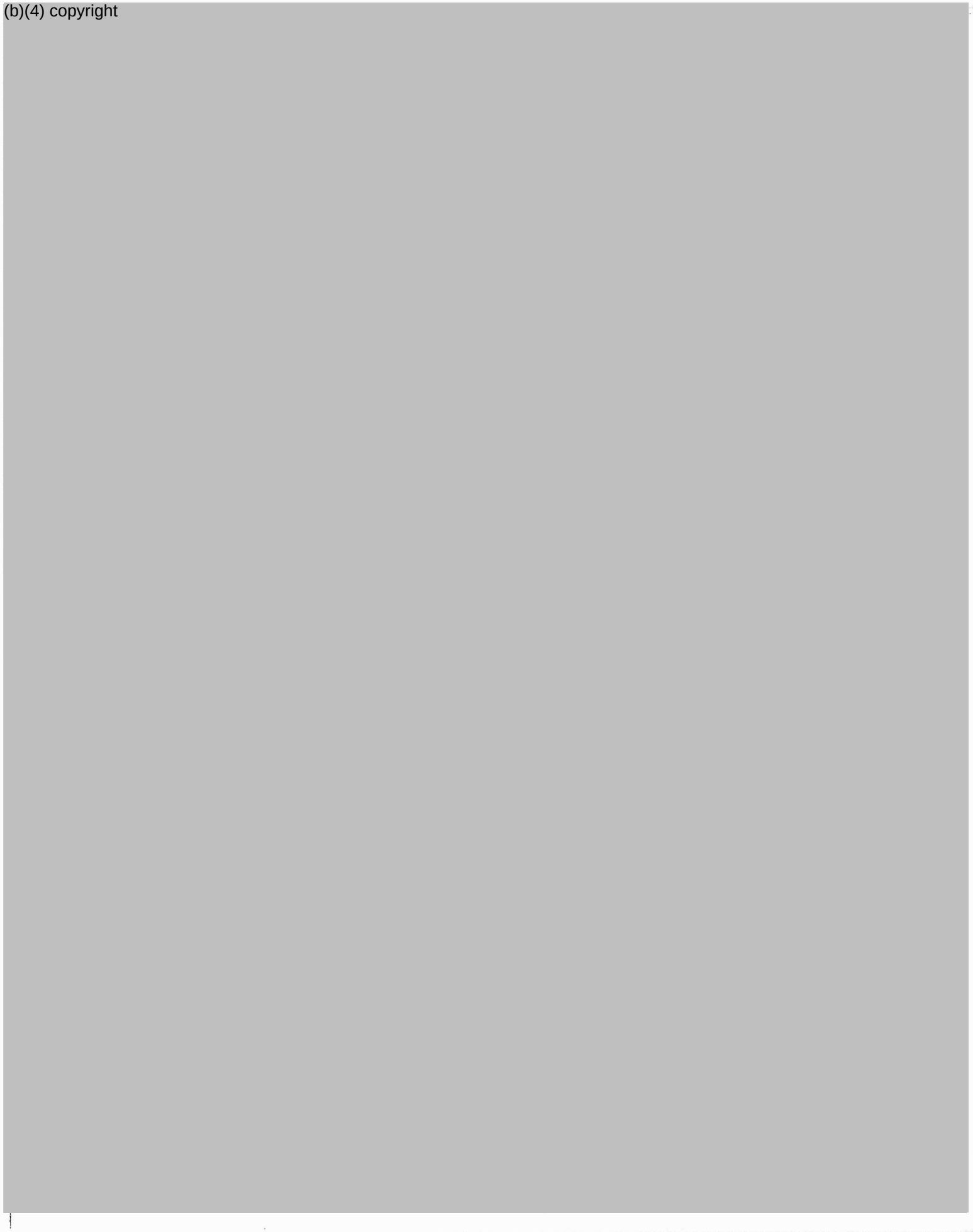

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Upper section of spreader being washed with boiling oil preparatory to treading over conductors

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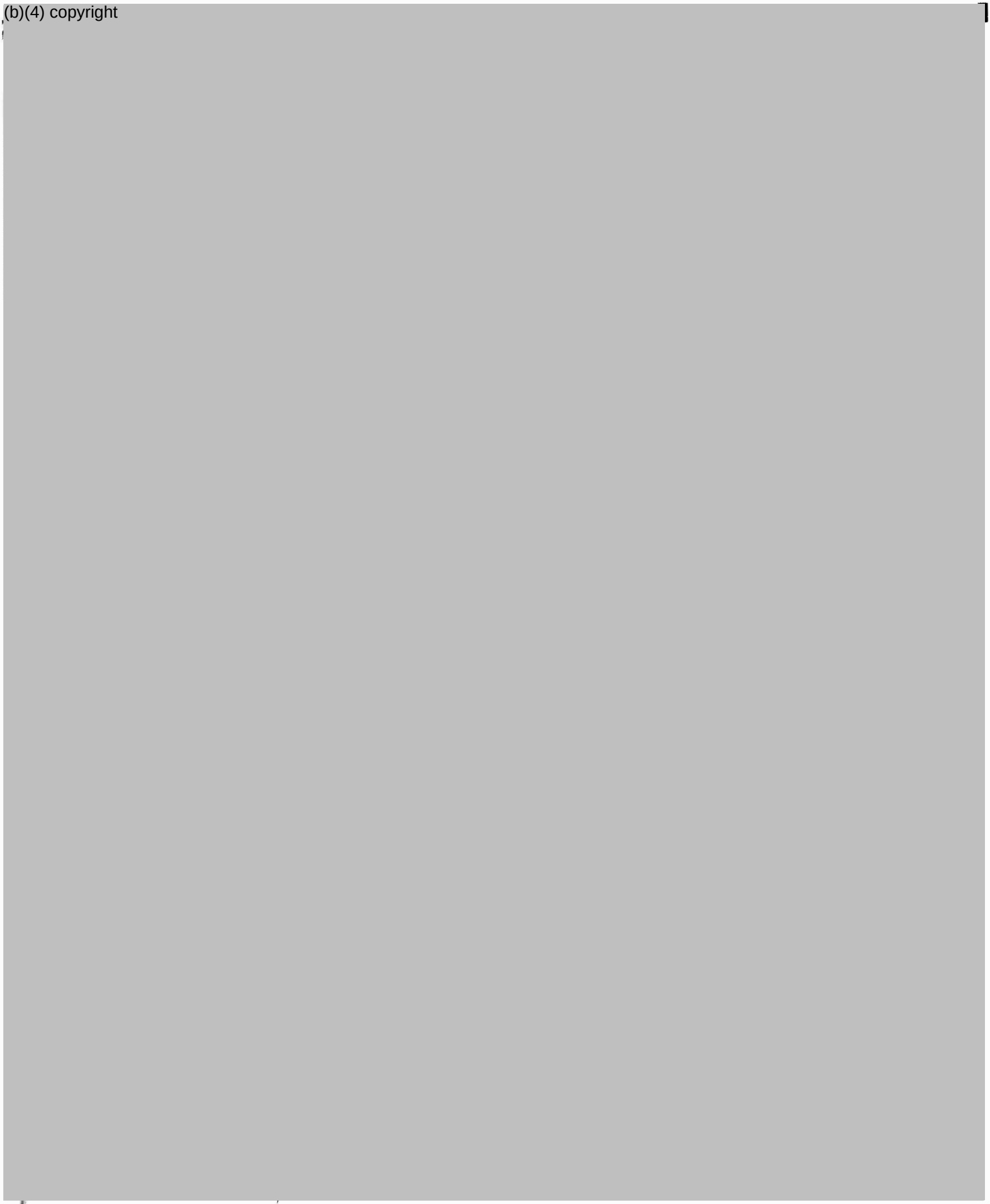

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Removing Lead

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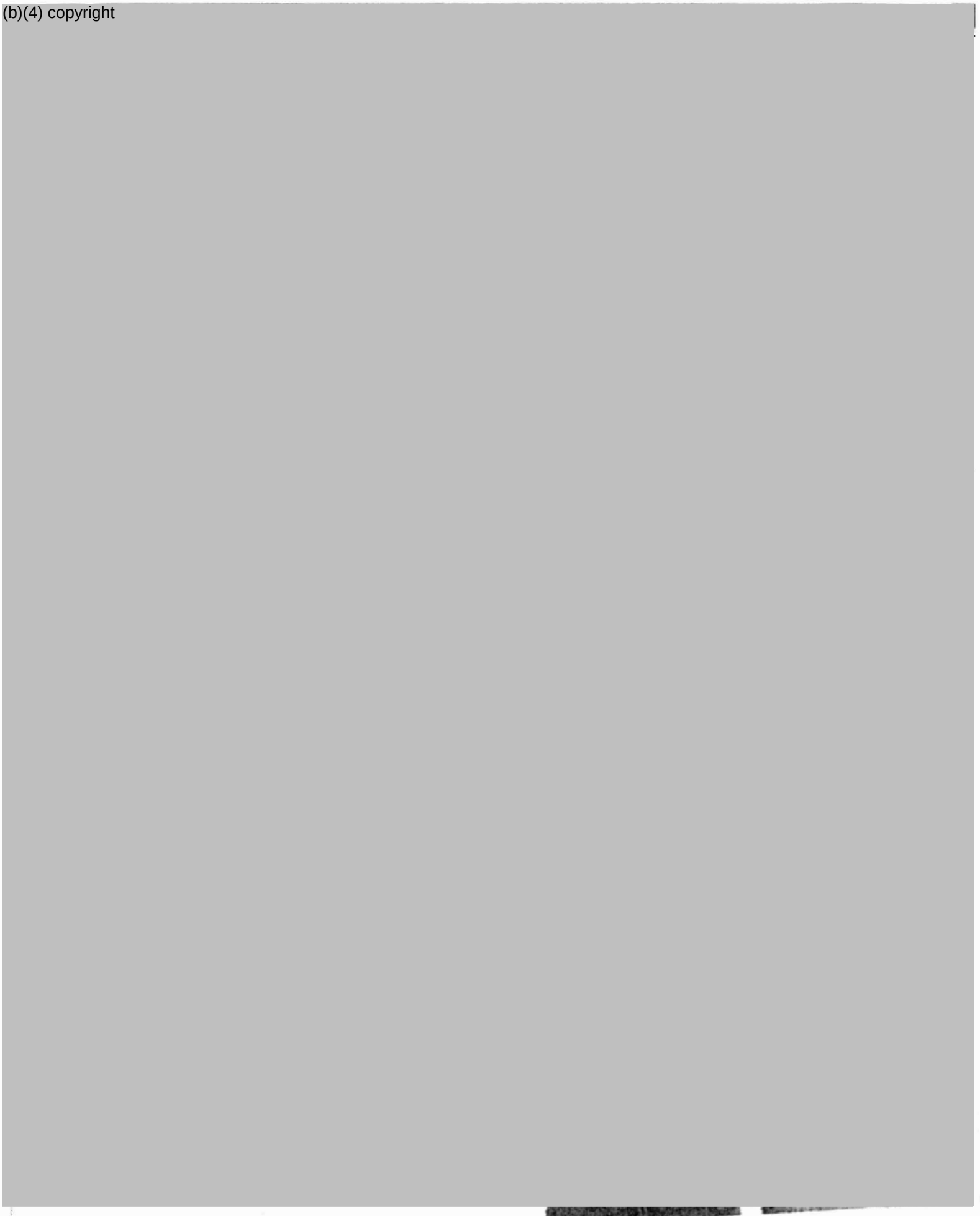

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Temporary housing

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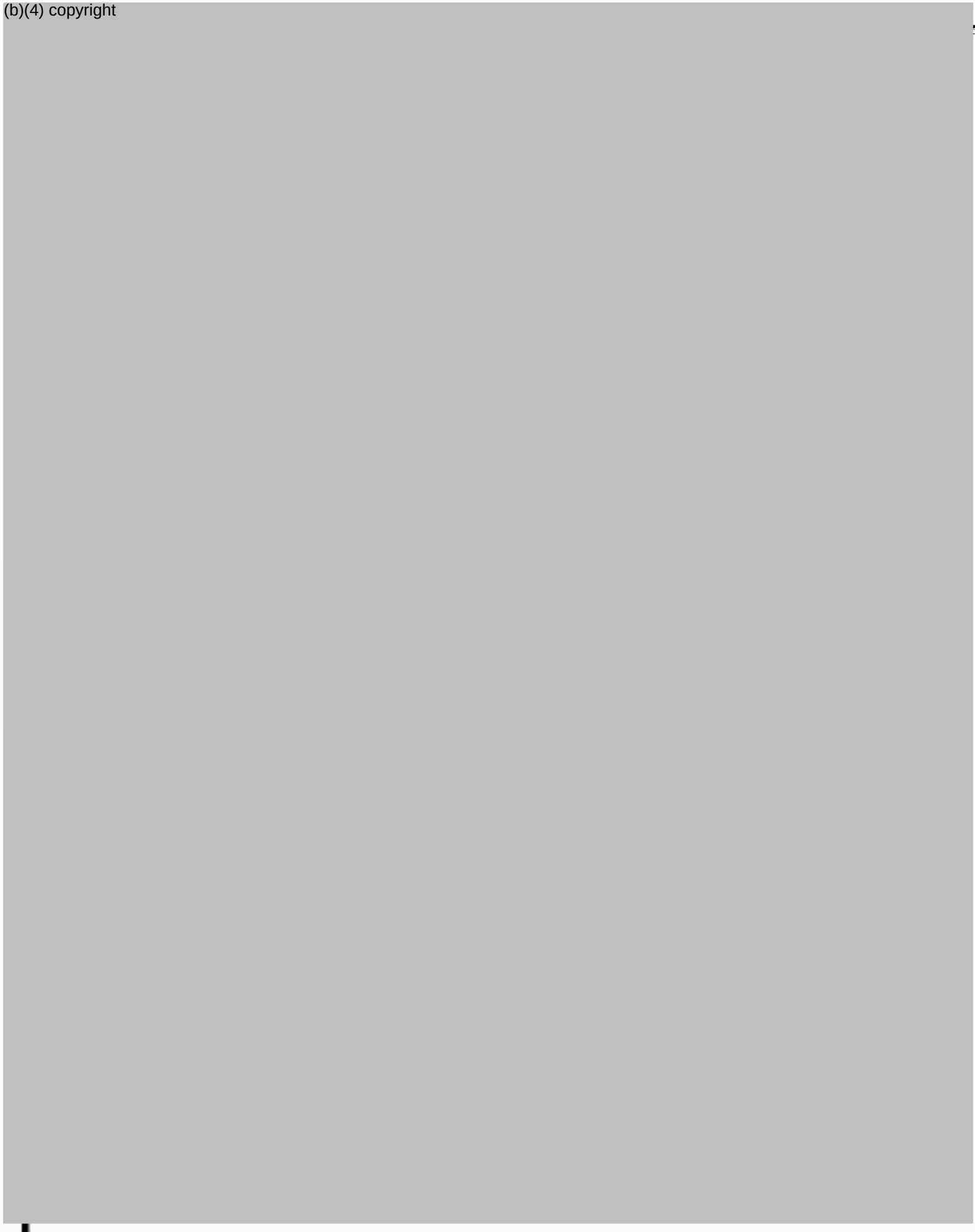

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Pulling cable ashore
after having been removed
from reel

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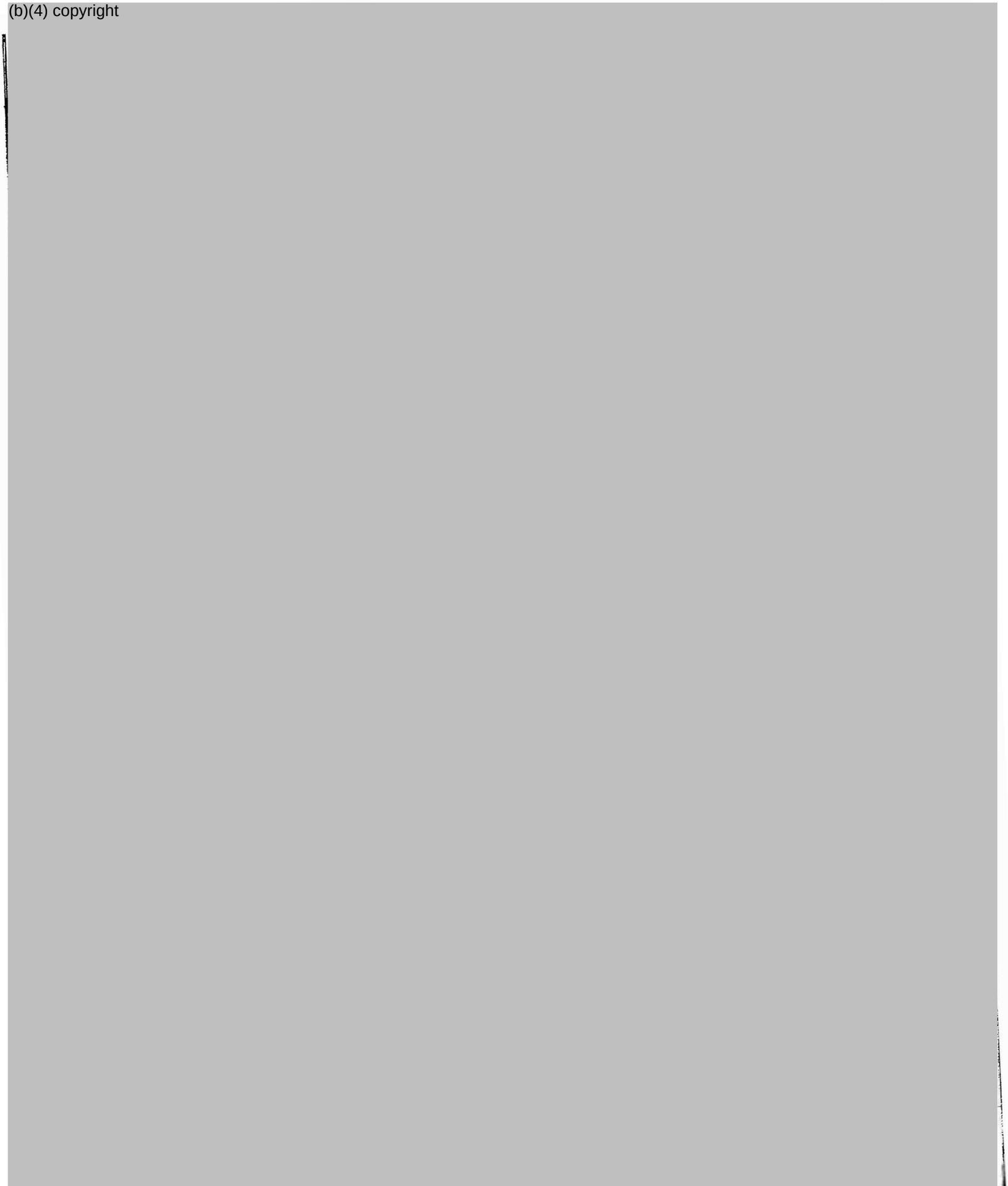

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Figure 9 of 9

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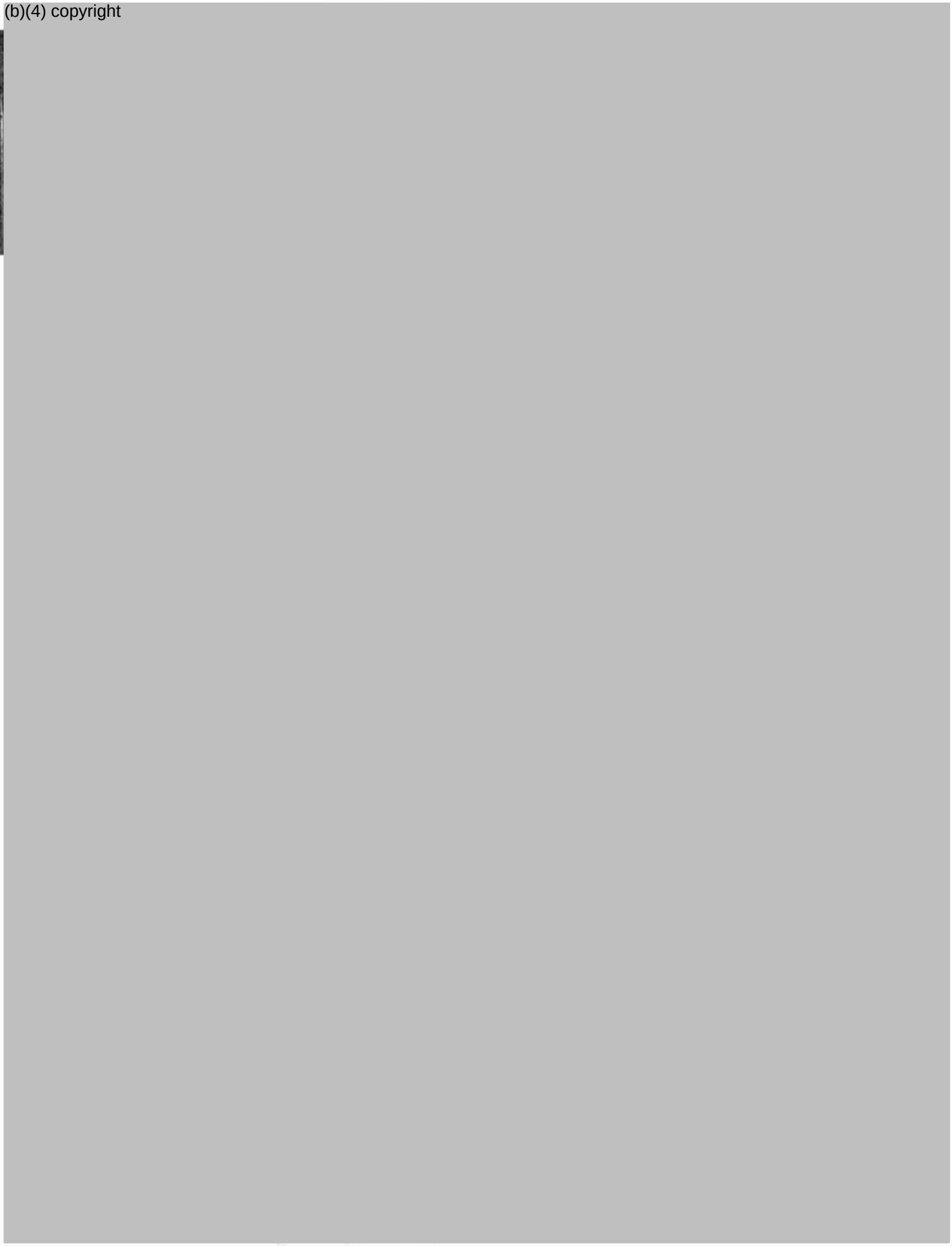

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Reels on barges at East Shore
Cables pulled ashore 3/25/45

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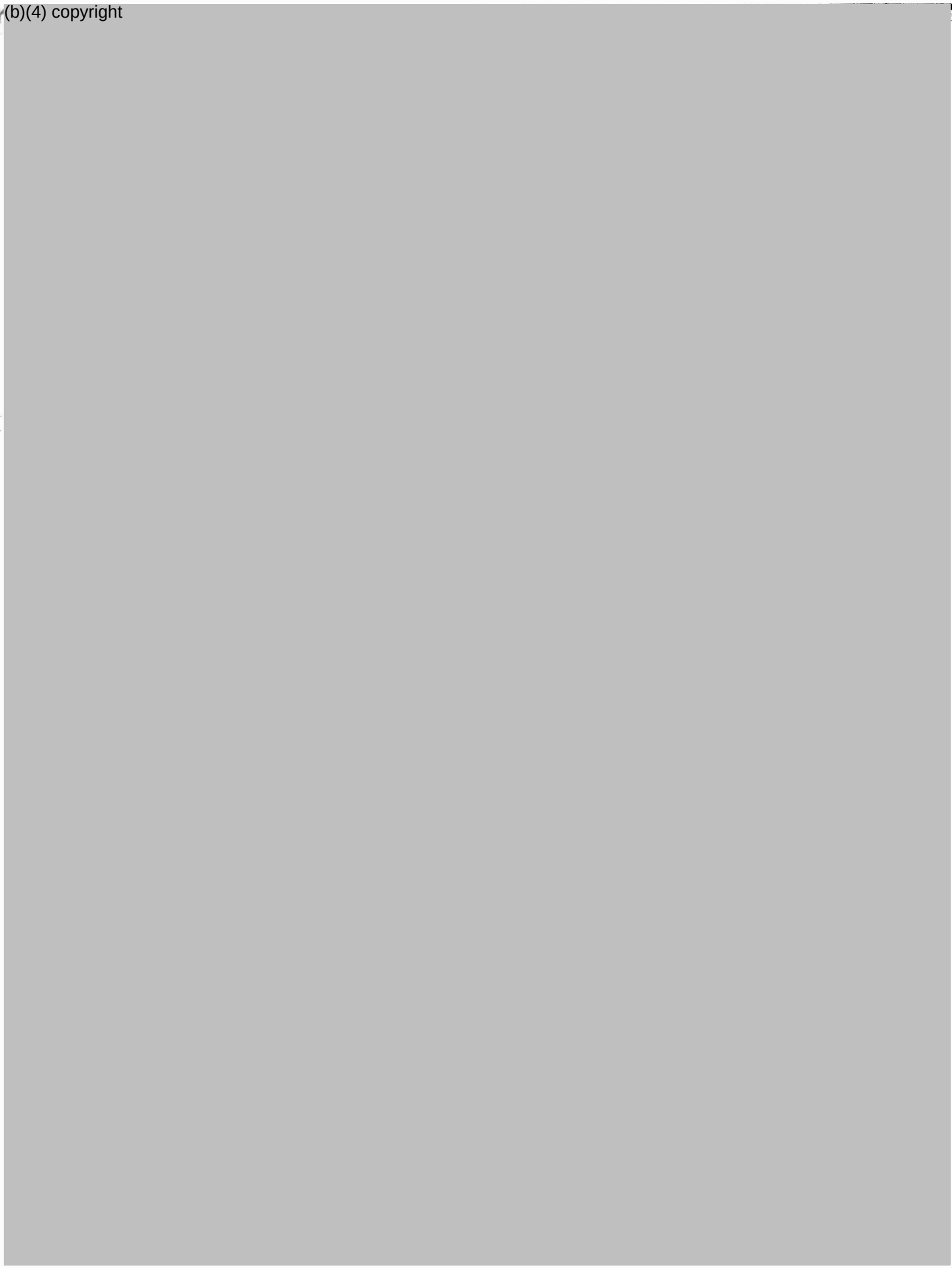

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A 1 Ft. Section of Standard
60 KV Oil Filled Submarine Cable
2 cables installed and Completed in April 1945
280 Mills paper Shielded
175 " Lead
#4 wire armor and Jute

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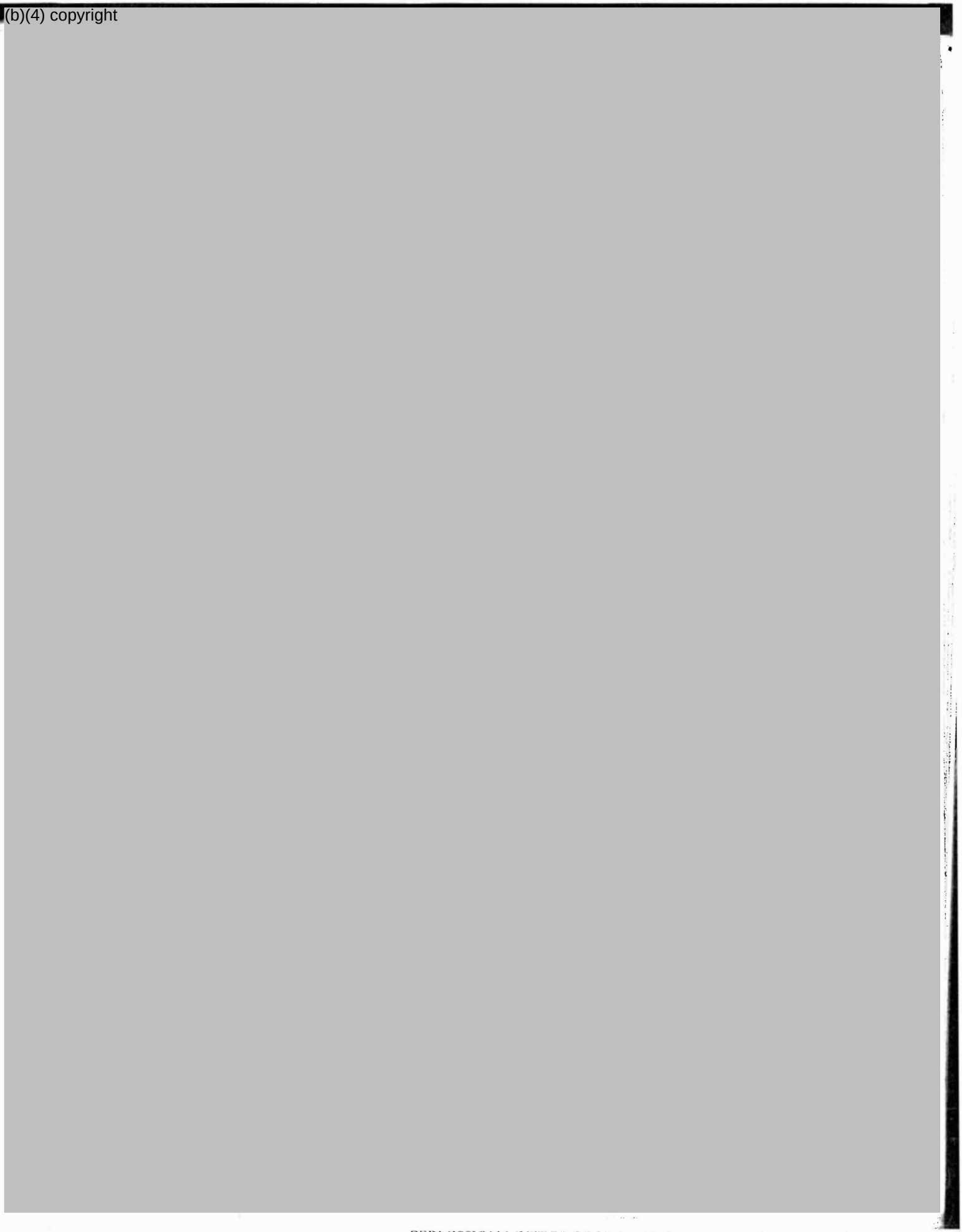
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Photos - John Volpe @ work (ca. 1929 - 1950)

Collection number ORG LOT 274
Author/Title or description
John S. Volpe Collection

Citation Forms for Collections at the Oregon Historical Society Research Library

Manuscripts
[Description of item], [date], [Collection name], Mss [#], Box [#]/Folder [#], [Negative number*, if present], Oregon Historical Society Research Library.
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Example:
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[Interview name], SR [#], [Tape # and side or Transcript p. #], Oregon Historical Research Library.
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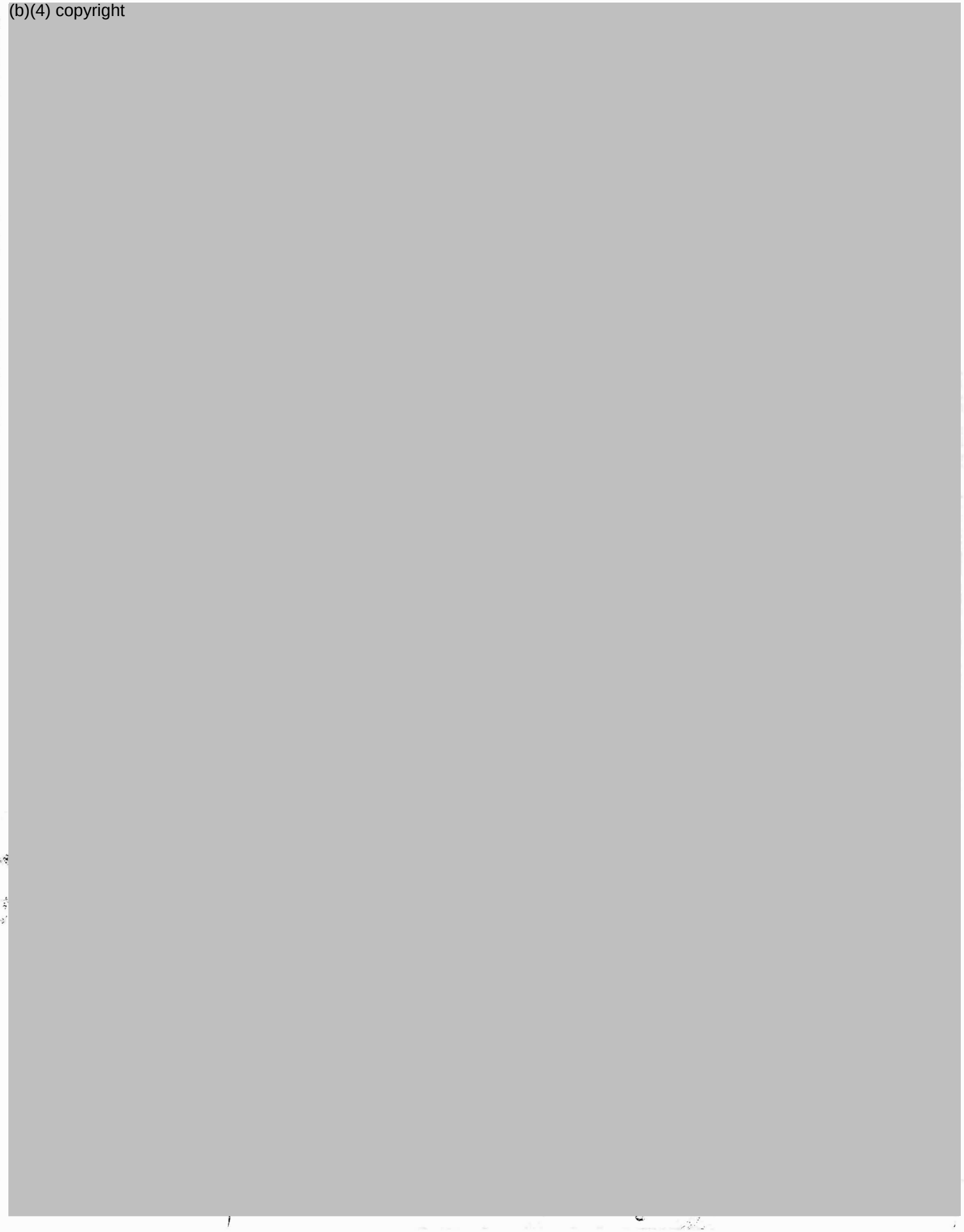

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Collection number ORG LOT 274
Author/Title or description
John S. Volpe Collection

Documents - Newspaper Clippings, Business Cards, etc. (undated, 1927 - 1952)

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Manuscripts
[Description of item], [date], [Collection name], Mss [#], Box [#]/Folder [#], [Negative number*, if present], Oregon Historical Society Research Library.
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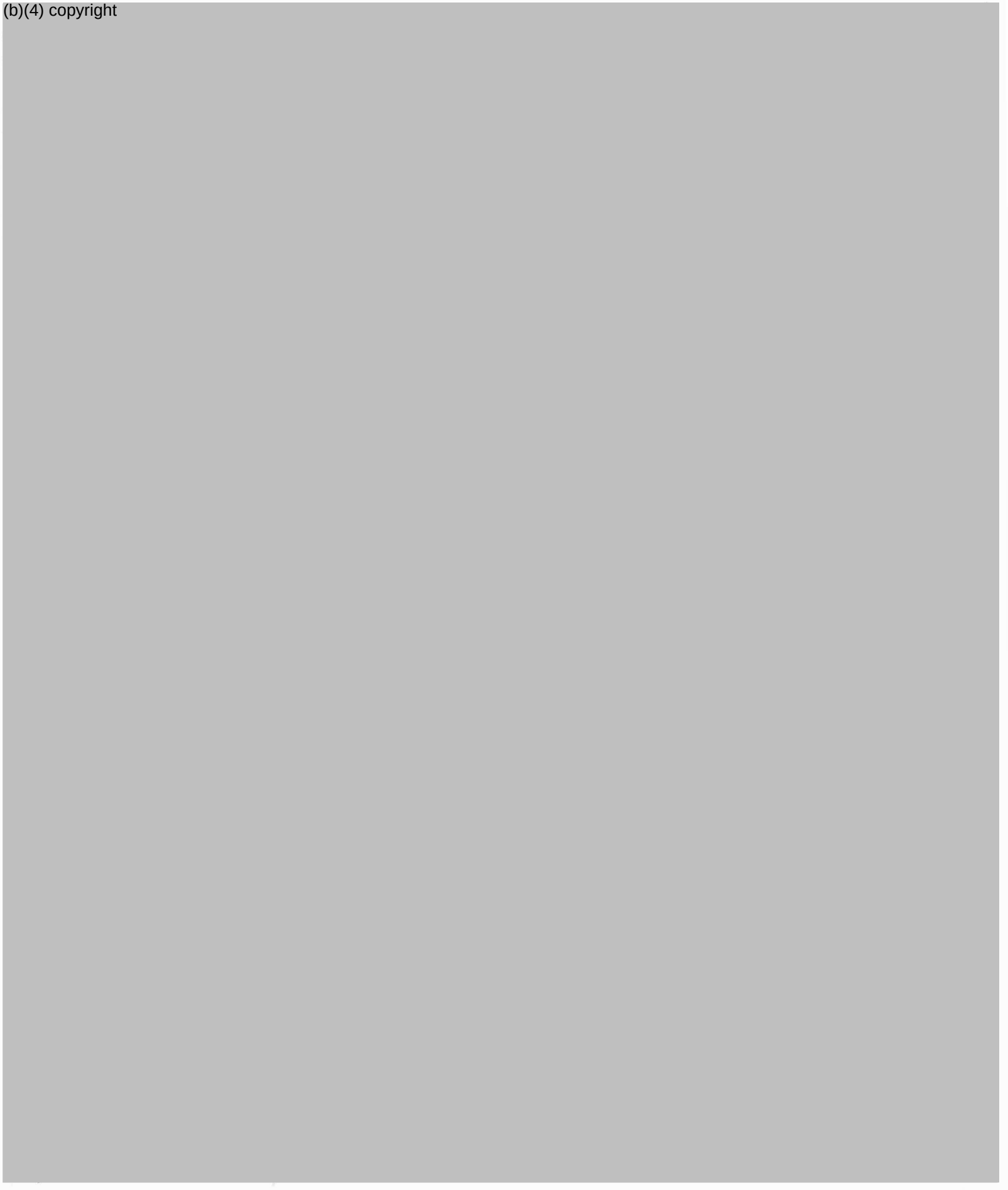

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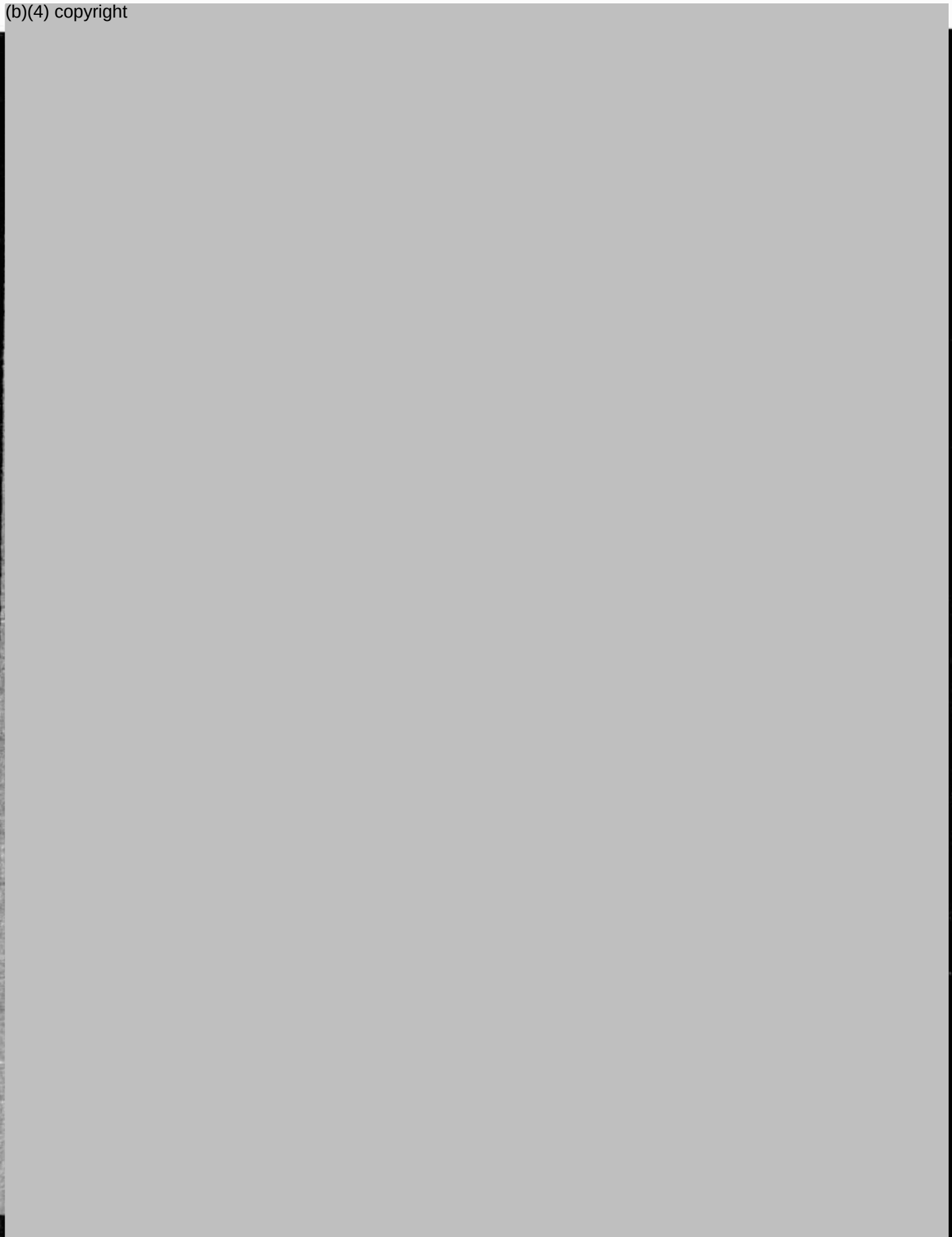

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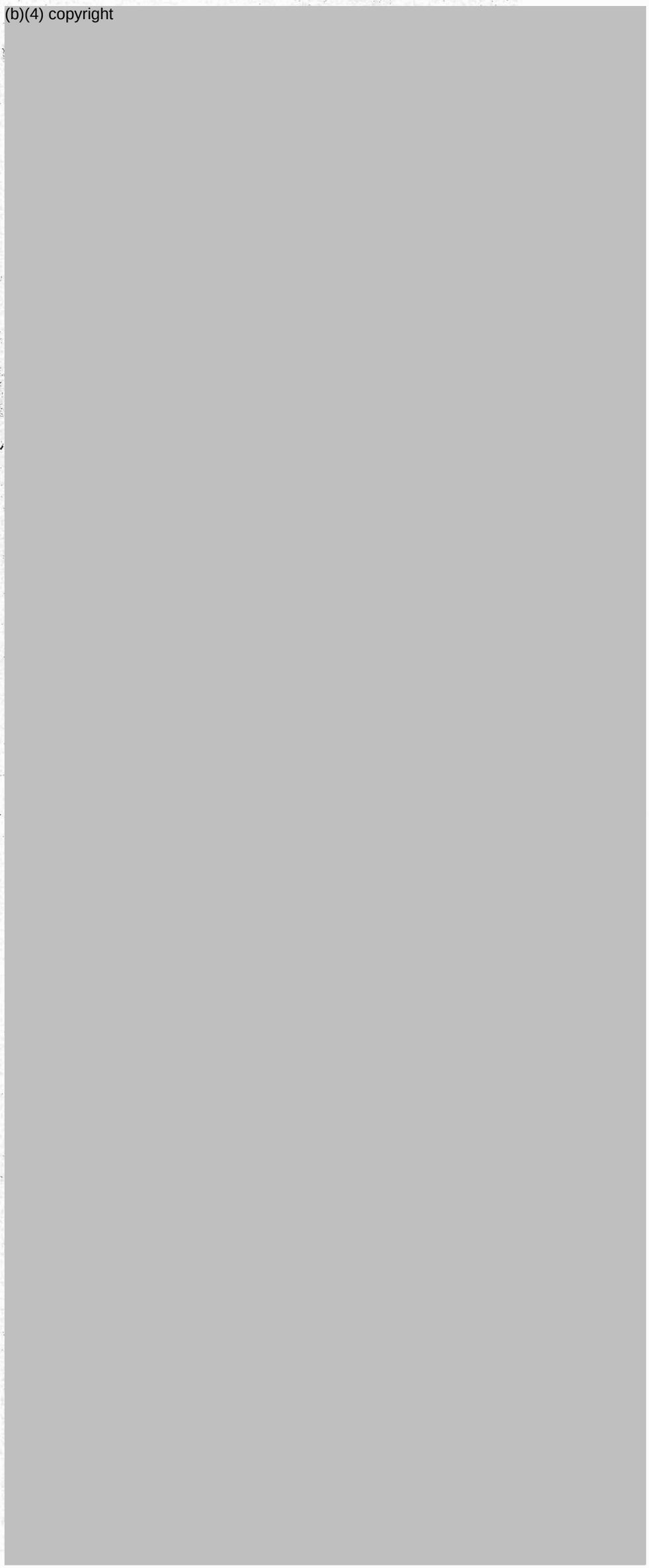

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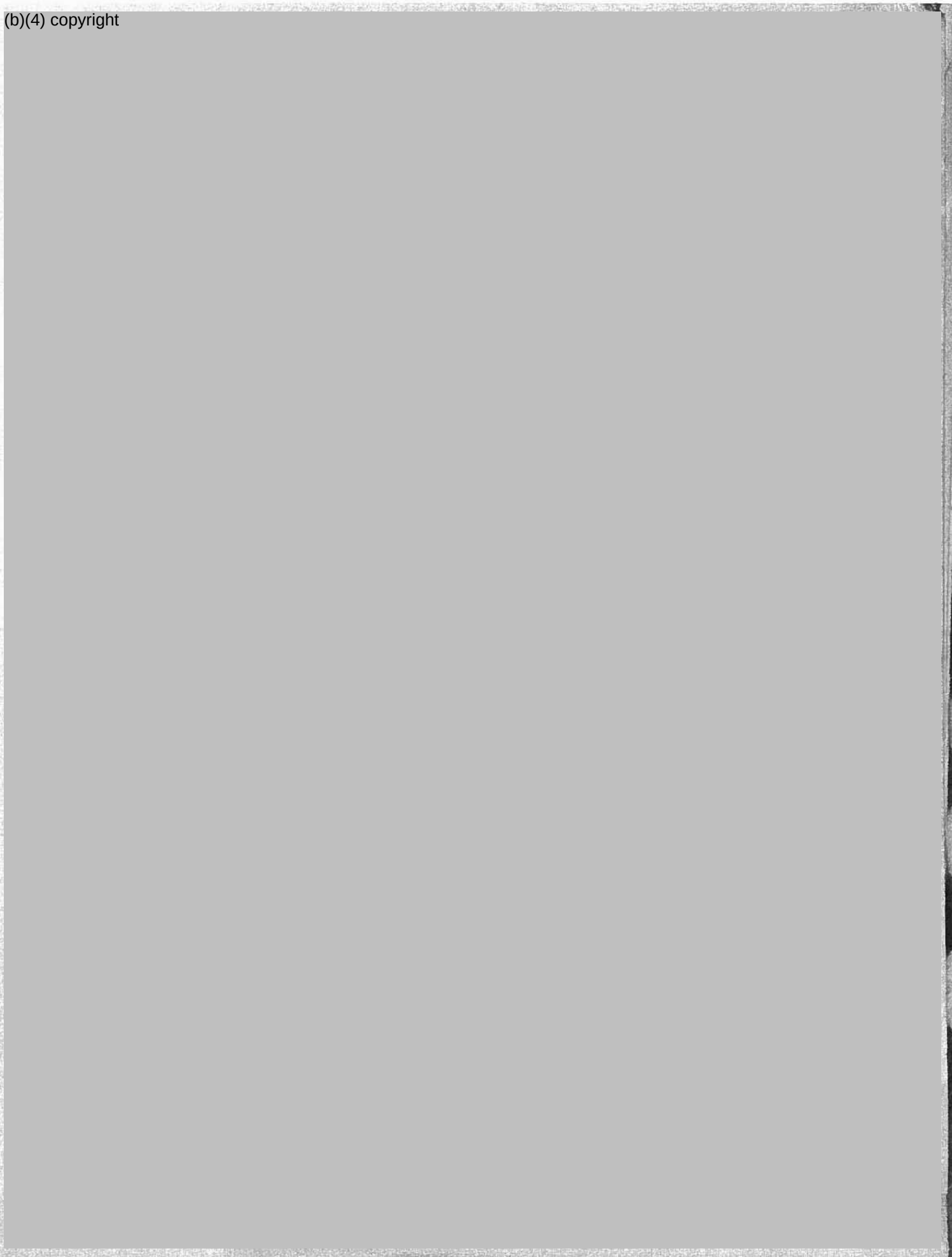

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A 1 Ft. Section of 3 conductor 500,000 CM
60 KV Oil Filled Submarine Cable
2 cables installed and Completed in April 1945
280 Mills paper Shielded
175 " Lead
#4 wire armor and Jute

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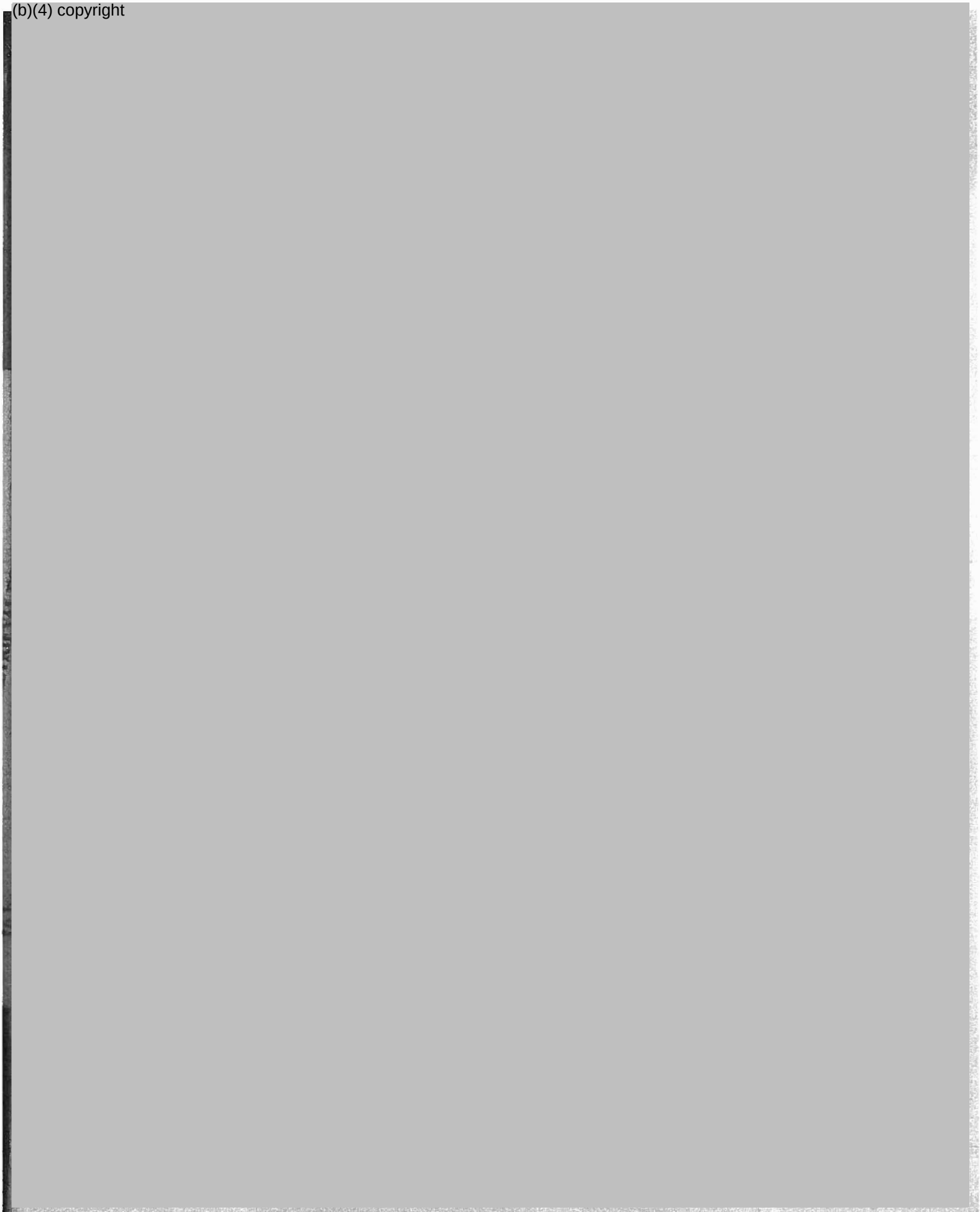

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Special car with
2 reels of submarine cable aboard 3/1/45

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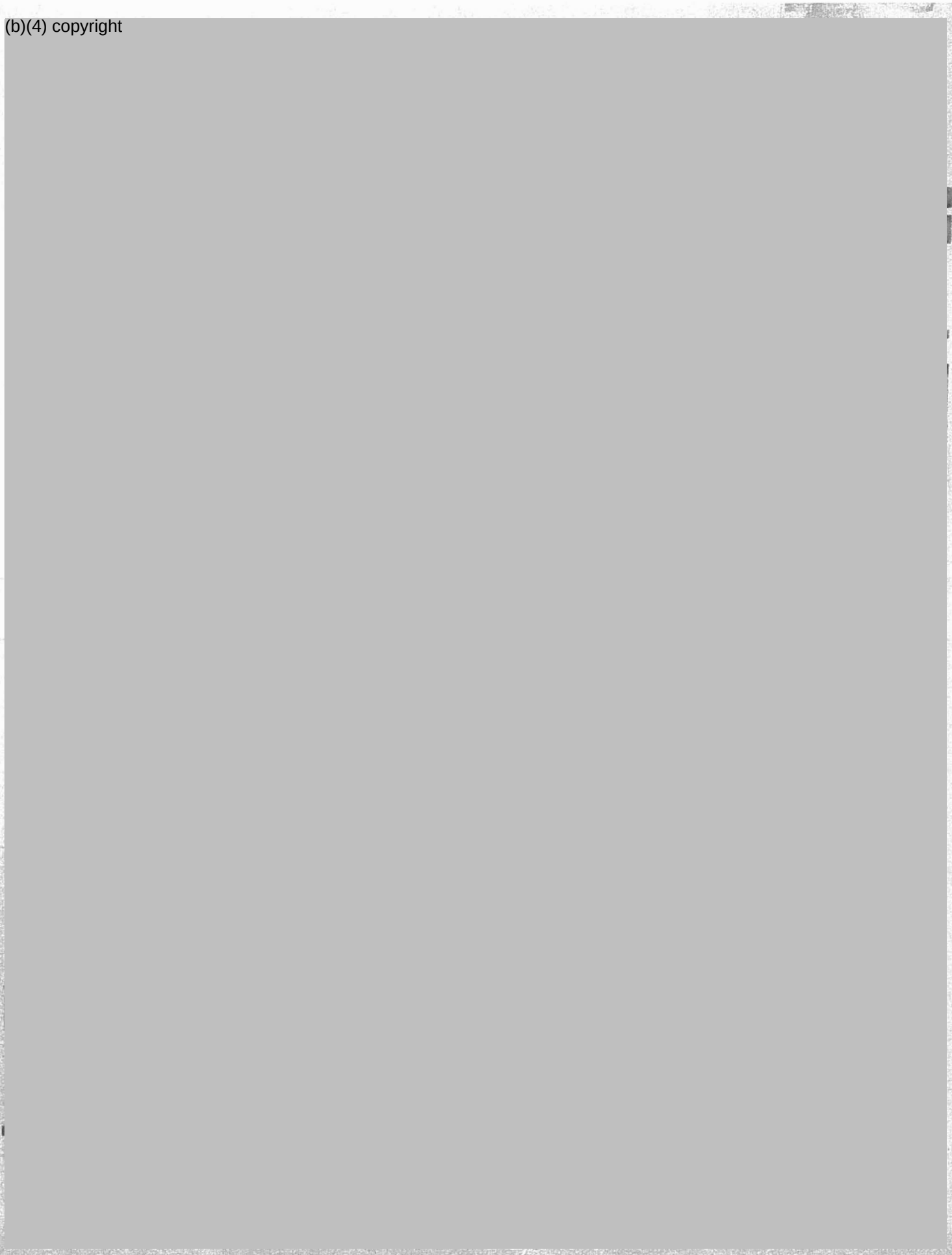

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Lowering reels unto Barge
in the river 3/1/45

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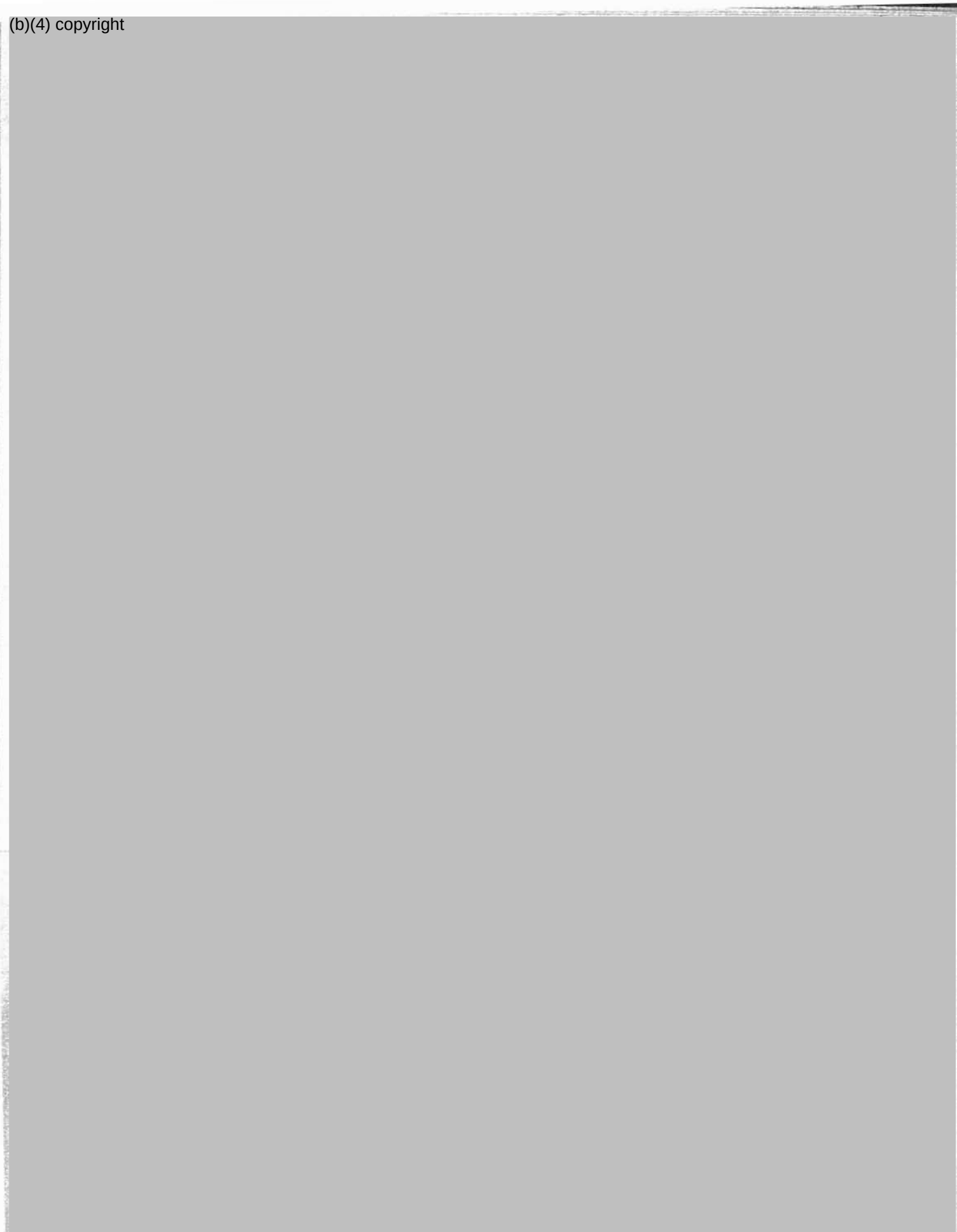

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Degasifier and vacuum pump

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Vieing the oil in The degasifier
Also evacuating terminal for
temporary oil filling

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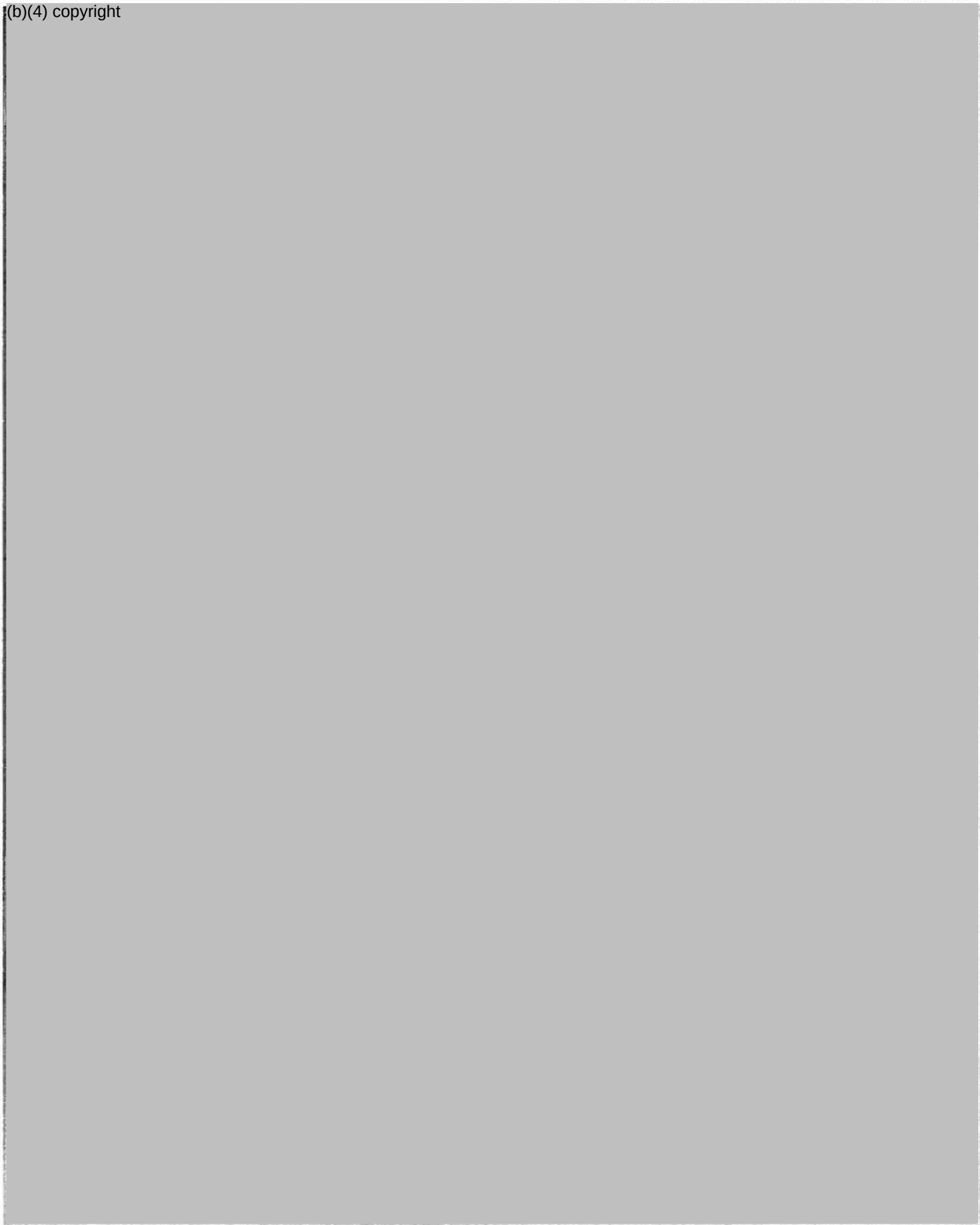

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Reels on barges at East shore
Cables pulled ashore 3/25/45

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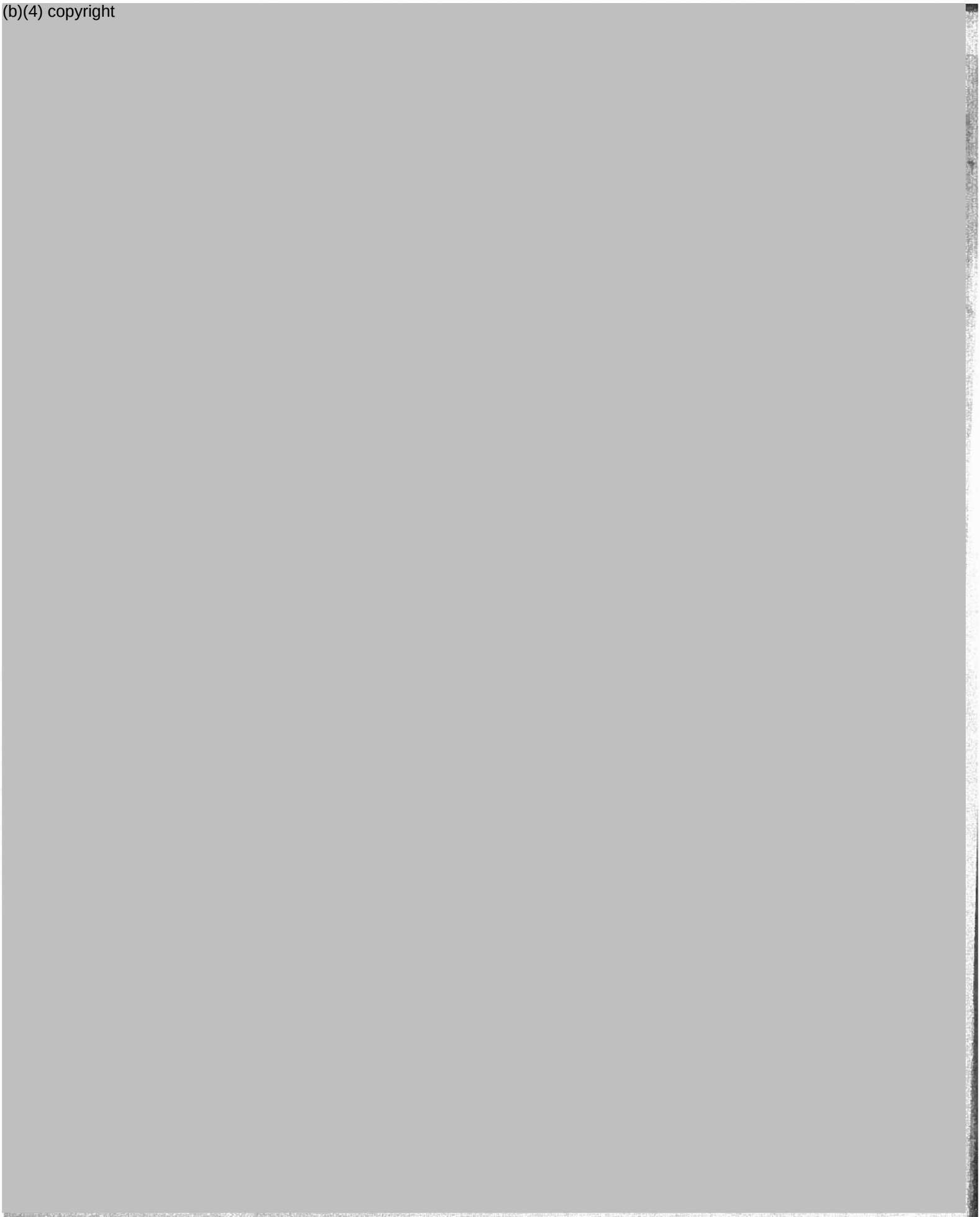

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Cable being taken ashore
4/24/45

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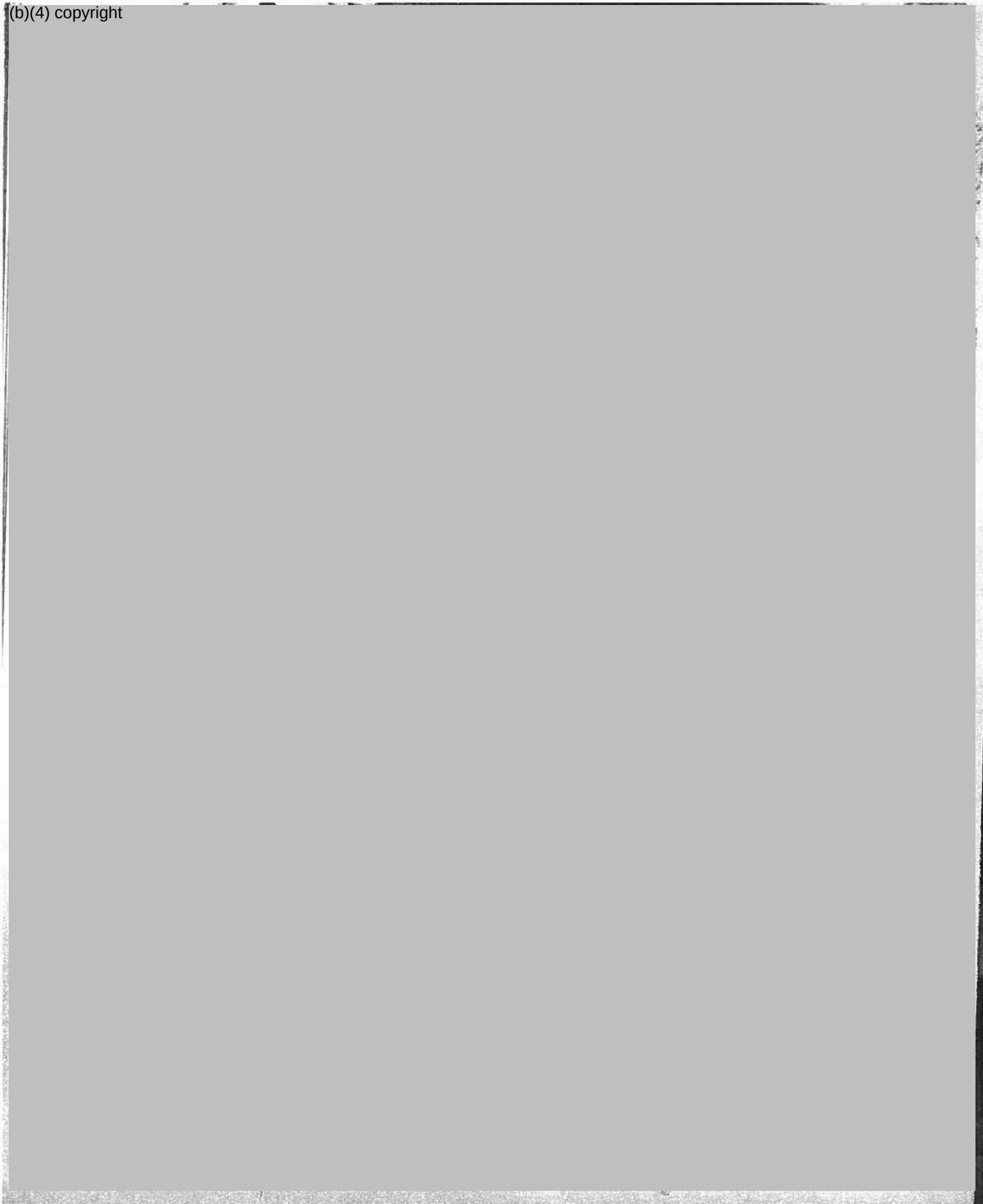

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Attaching oil reservoirs to
cable on east shore, preparatory
to removing reservoirs from reels

3/1/45

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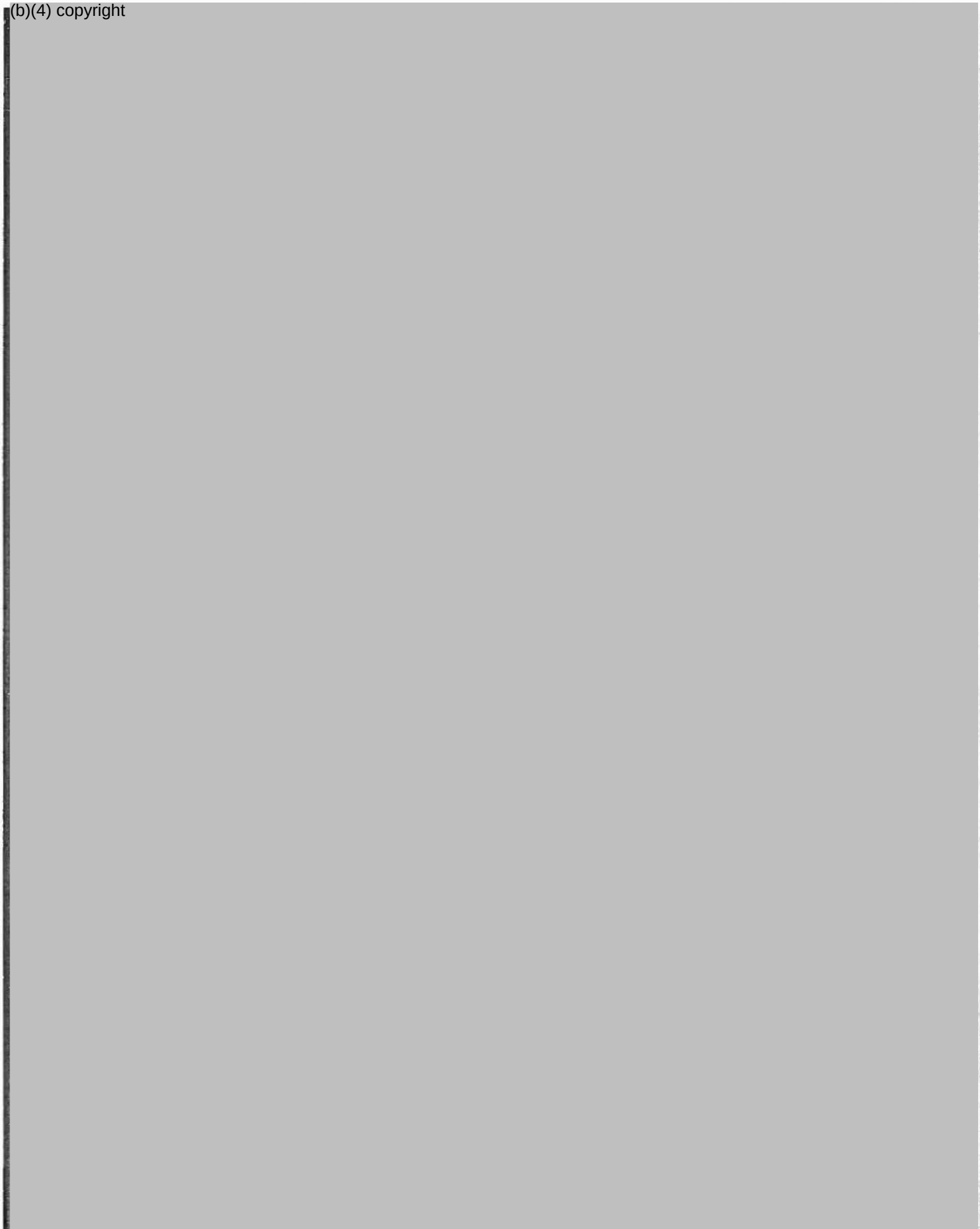

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Cable terminal structure
temporary housing - east side

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Cable reels and rack

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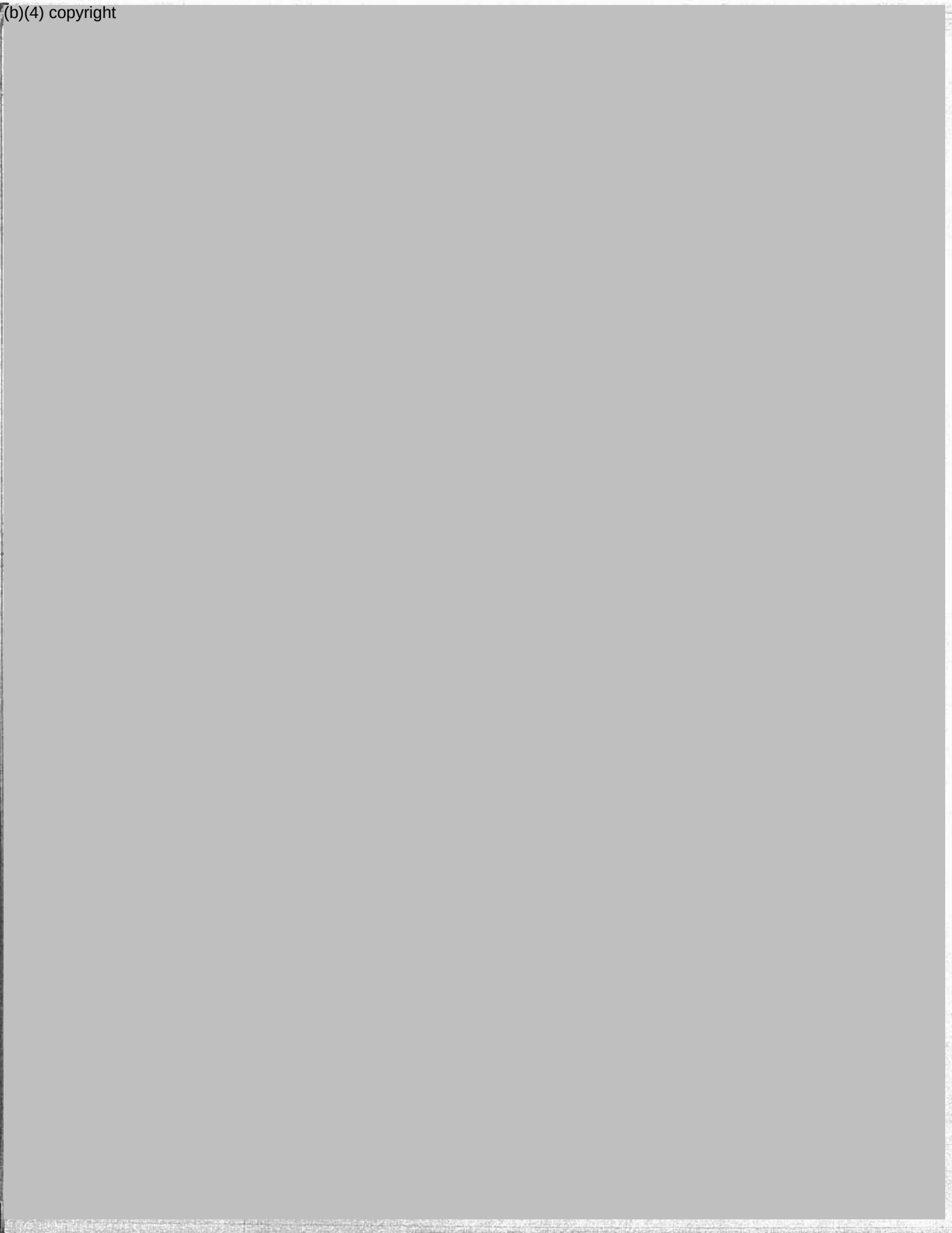

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Preparing cable armor for pulling cable ashore

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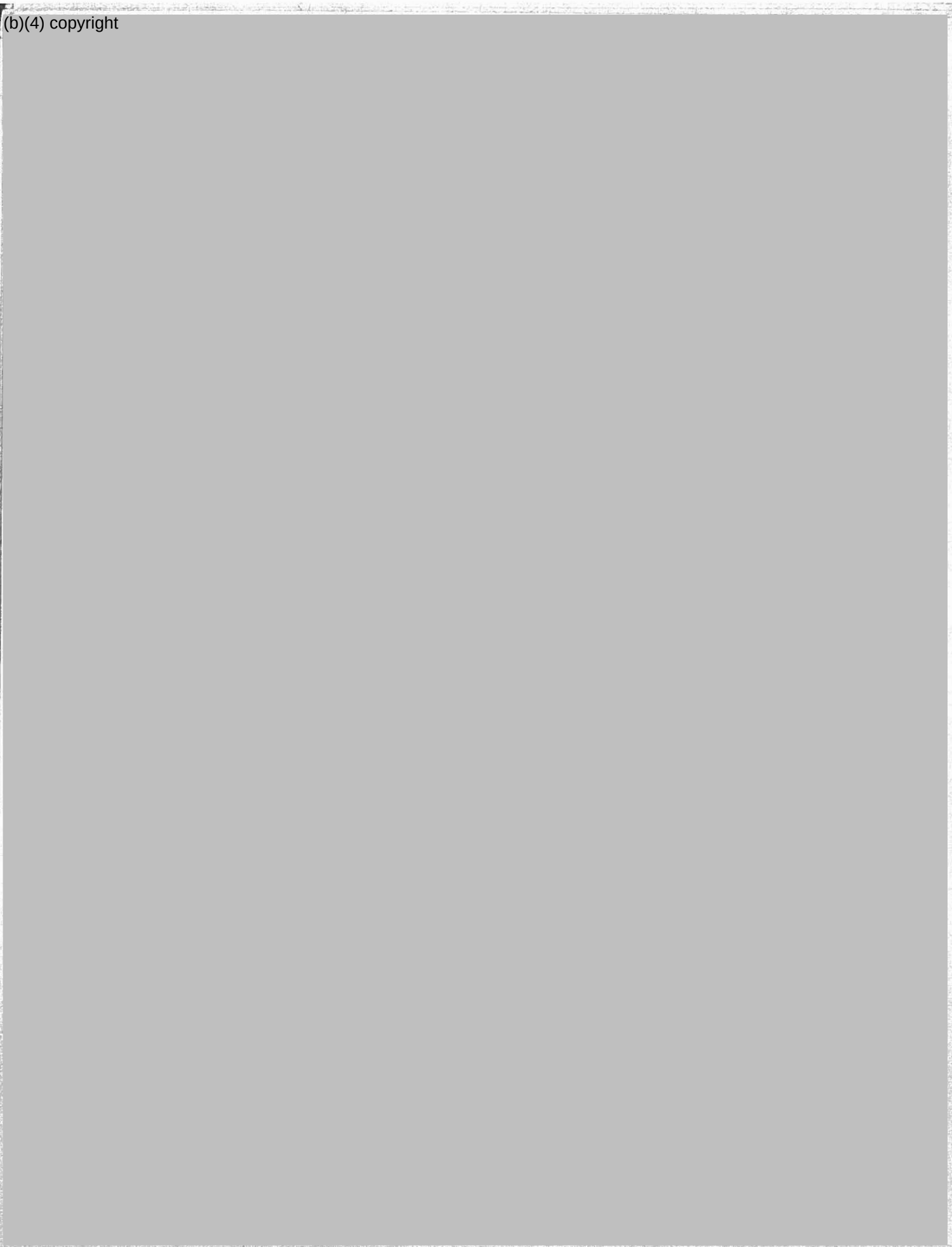

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Figure of 8 for removing balance of cable on reel before pulling ashore

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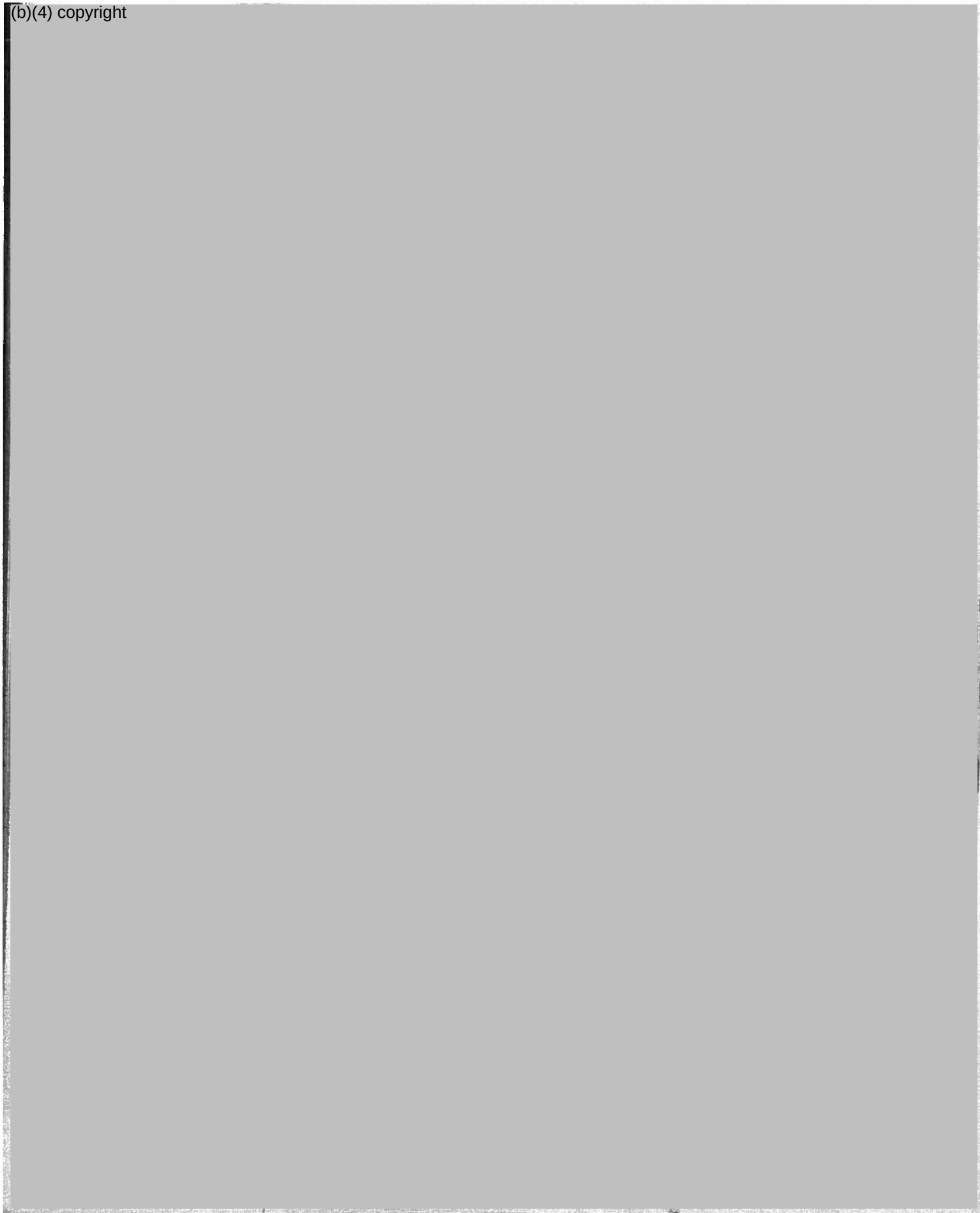

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Figure of 8

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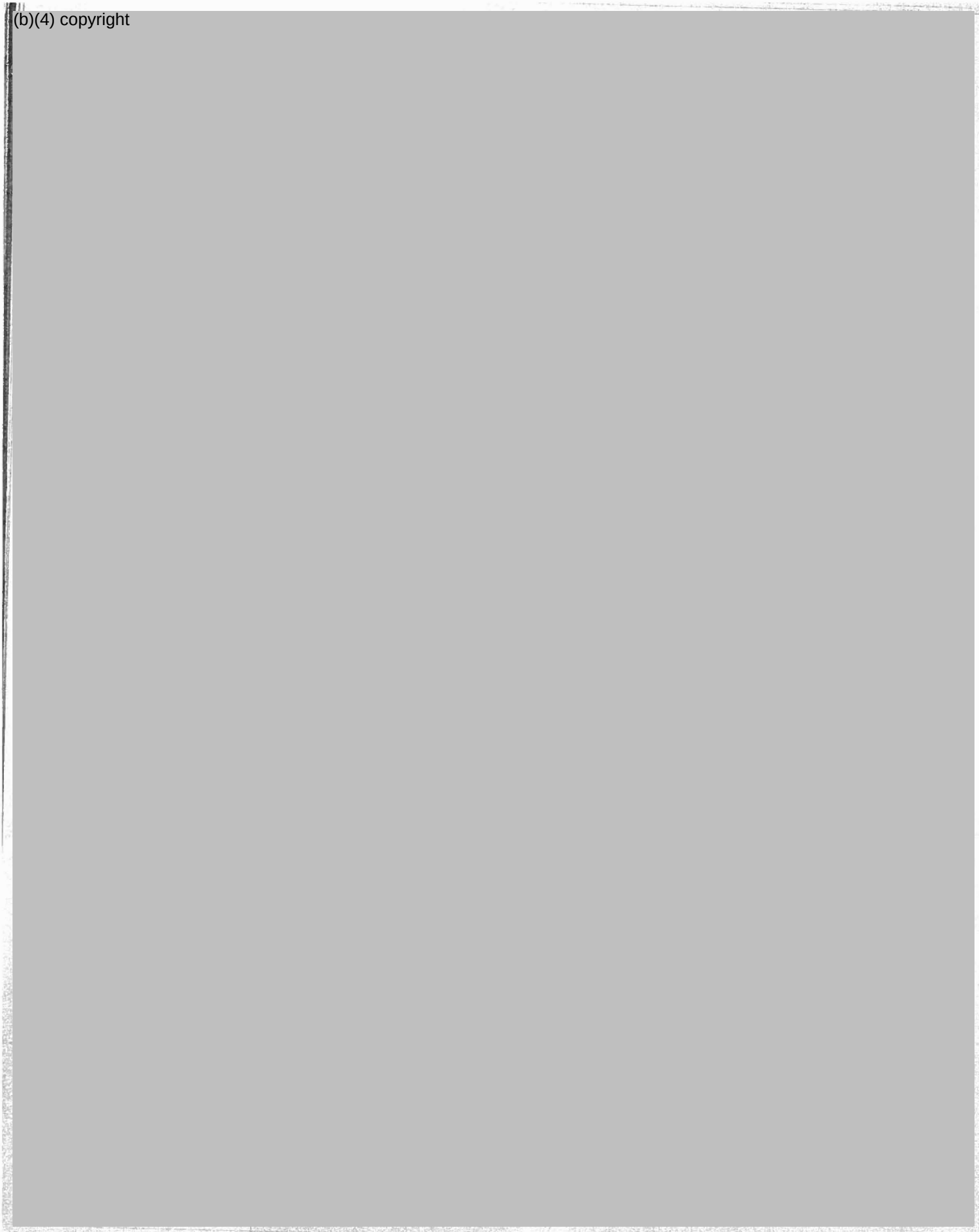

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Pulling cable ashore after having been removed from reel

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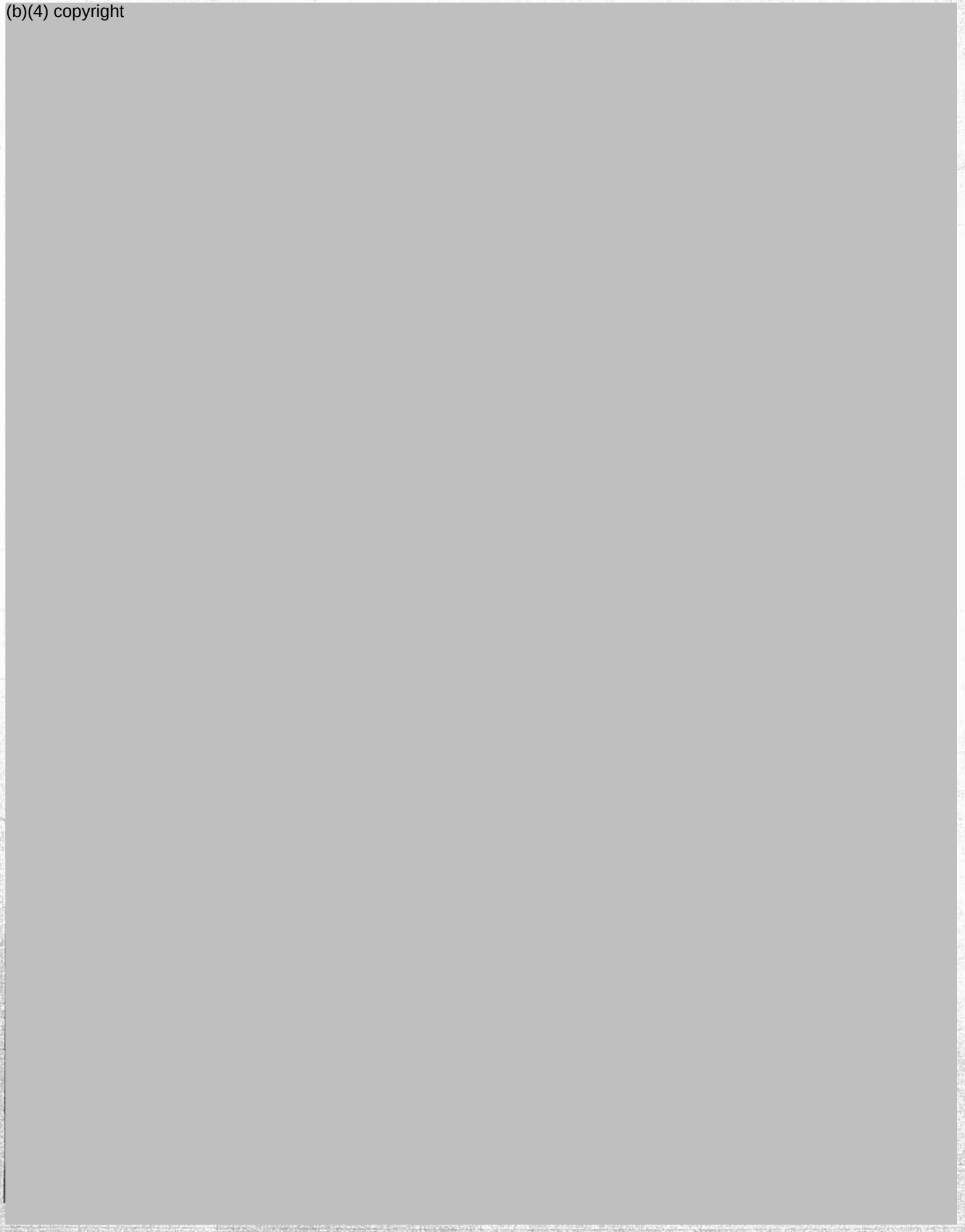

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Armor has been removed
cable prepared for removing
lead sheath, while being fed from distant end

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Removing Lead

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Removing Lead

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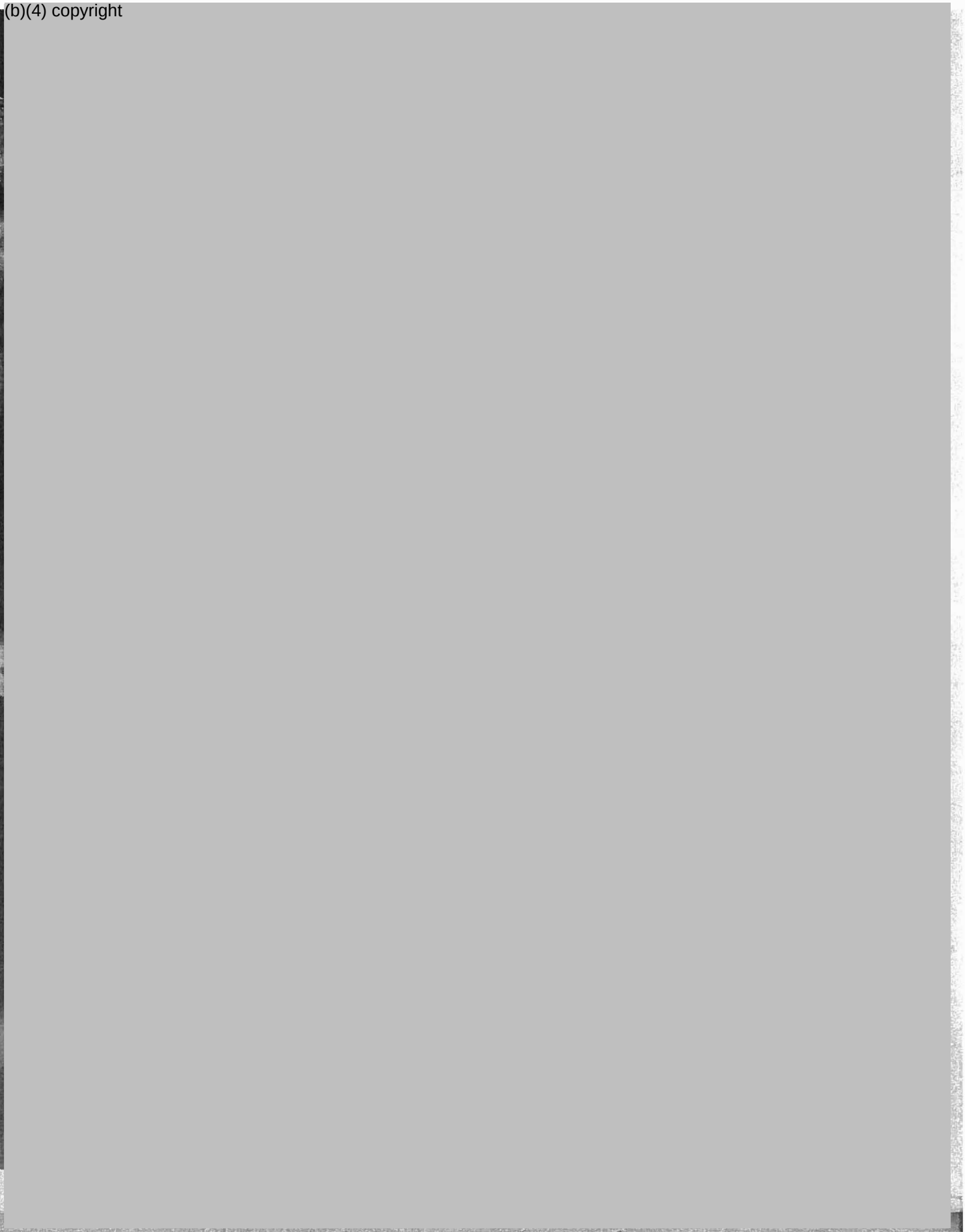

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John Volpe Left

Lead has been removed
Conductors being examend
for any defects or cuts
in the metal shielding

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being washed with boiling oil preparatory to treading over conductors

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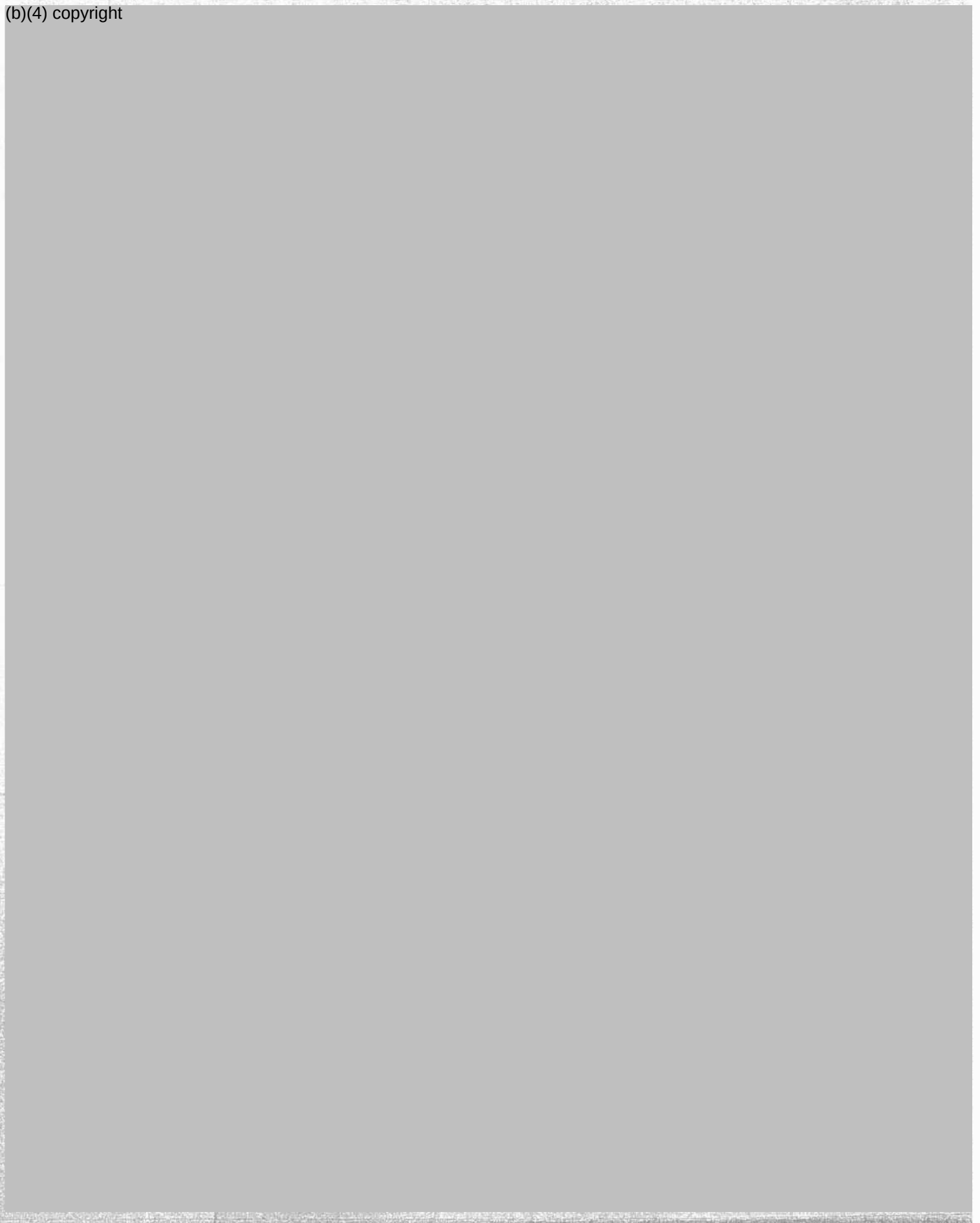

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Lower portion of spreader in place, upper portion being placed

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Wipping on
Spreader Lower end

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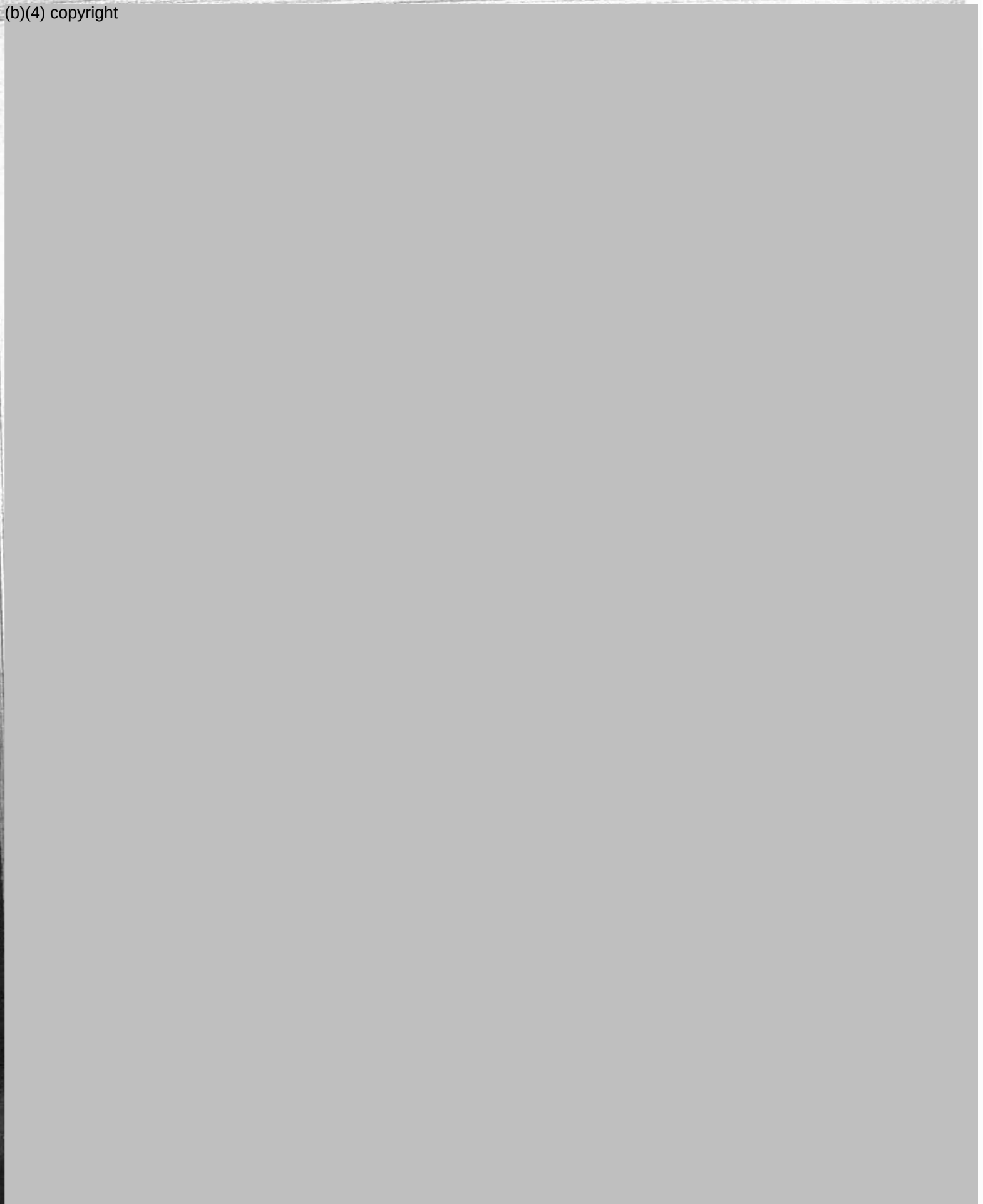

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Sampling for oil leaks at the stop joint before ~~ma~~ placing lead pipe in place and making upper wipe

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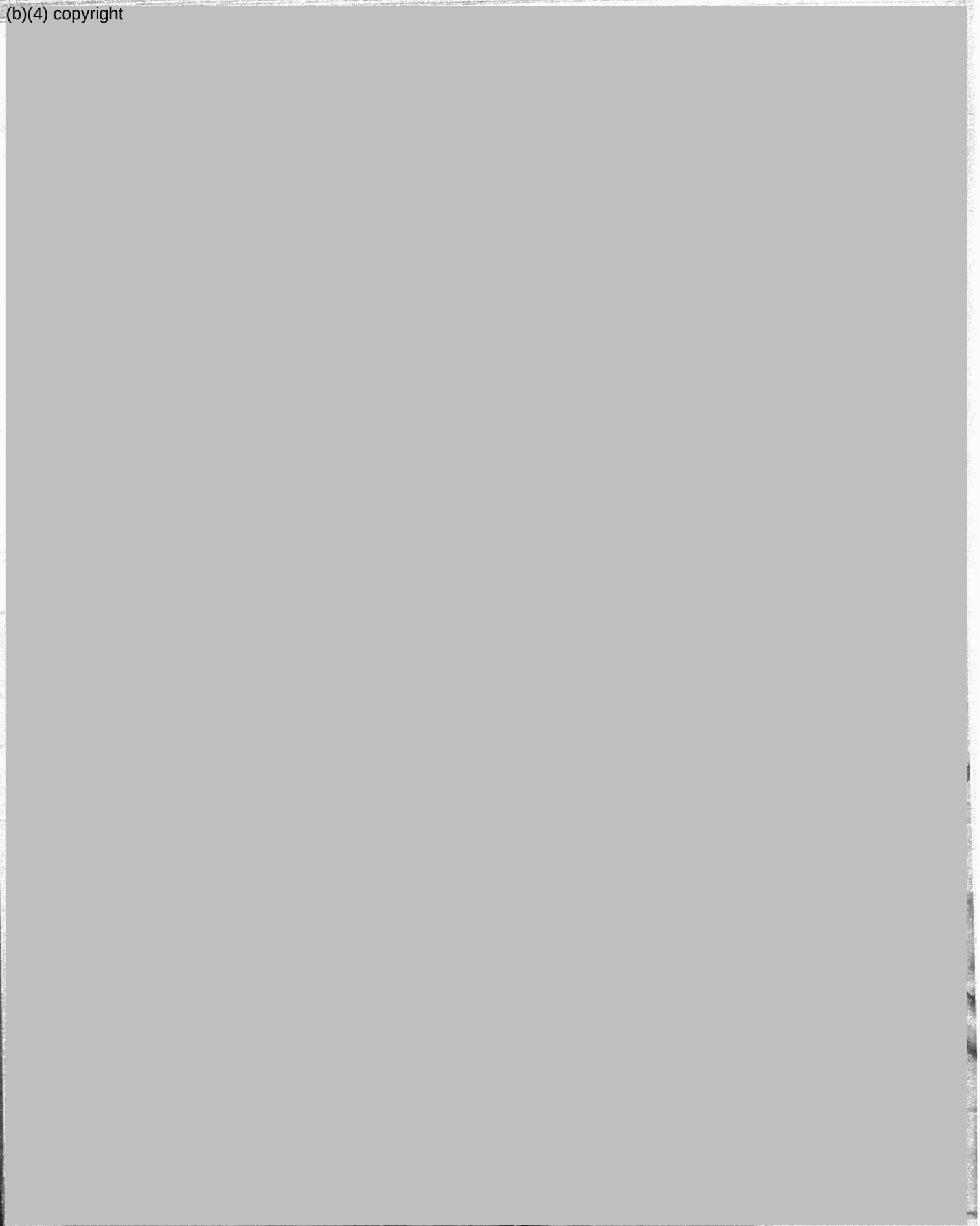

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Completed Spreader

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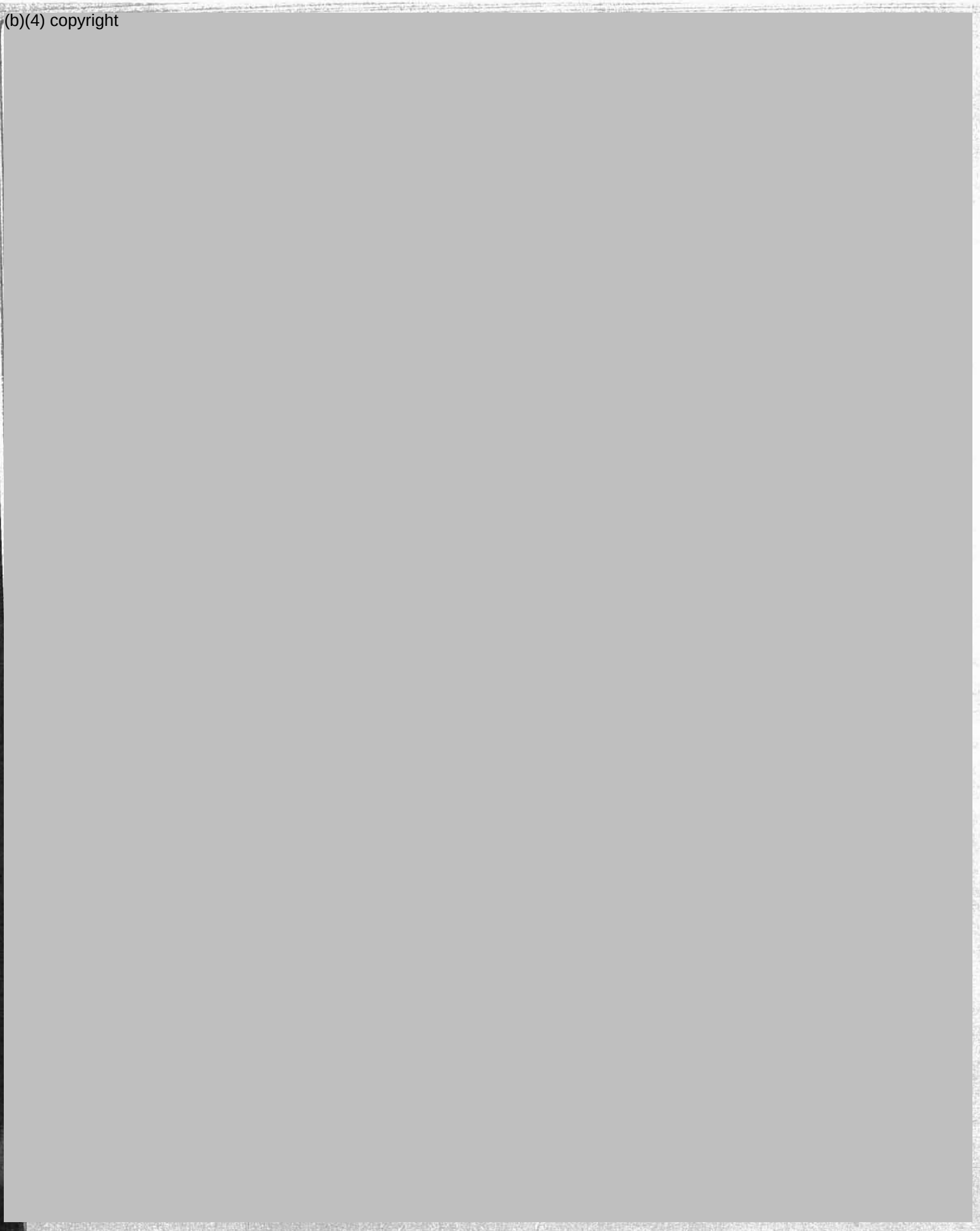

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Making stress ~~coats~~
Cones

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Completed lapel work

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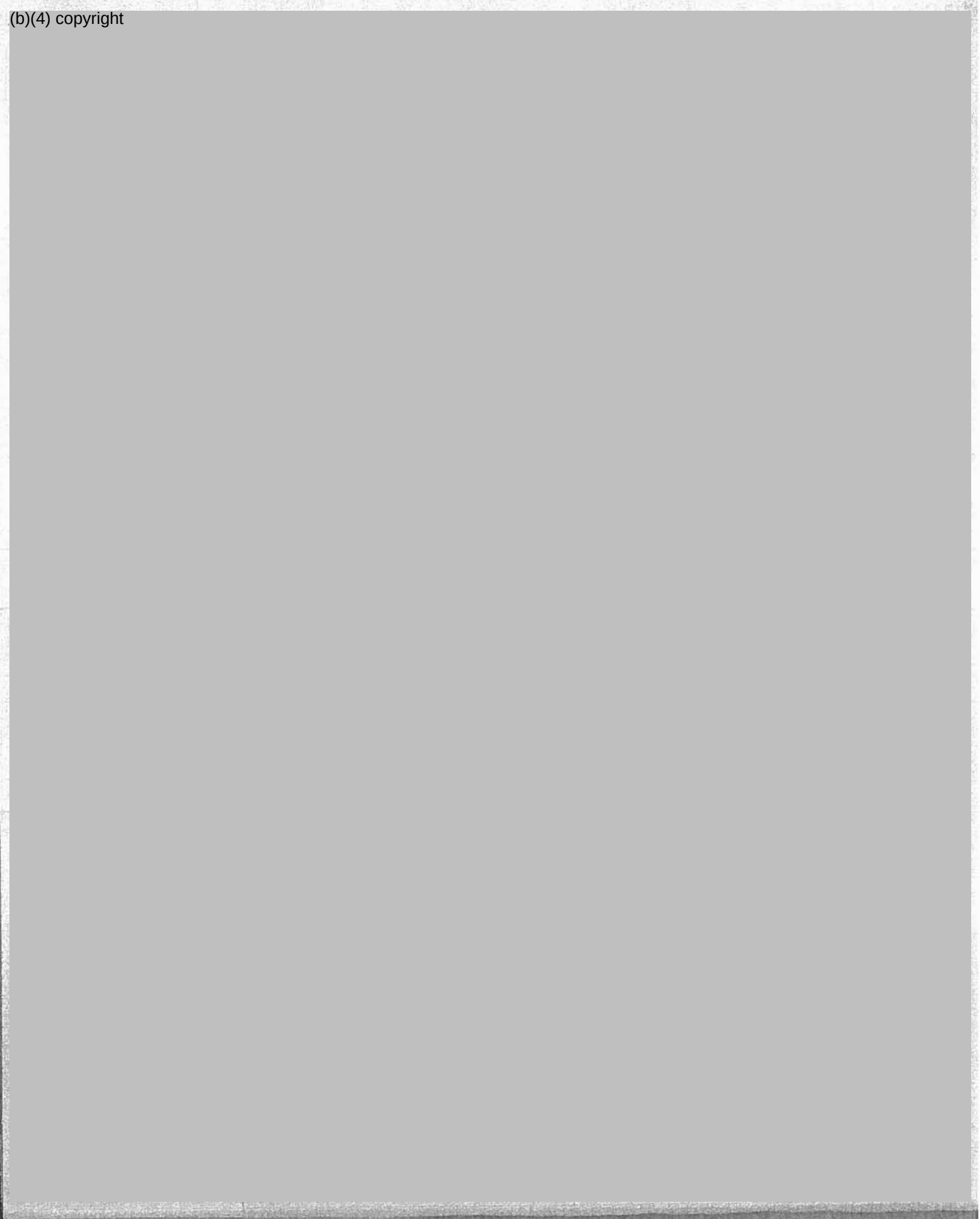

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John S. Volpe

Shielding terminated

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Putting on Lug

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Completed cable end before trading into Terminal

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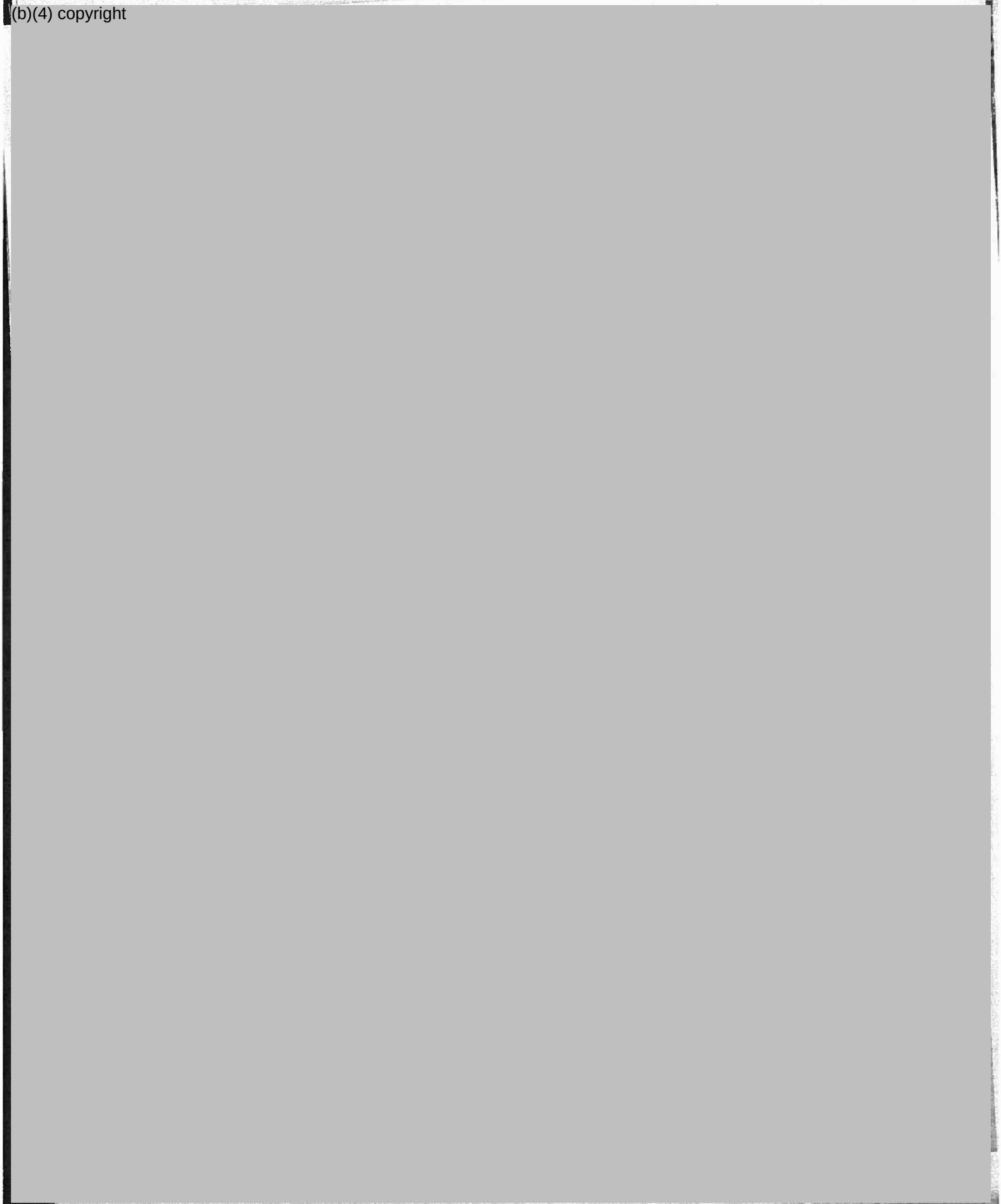

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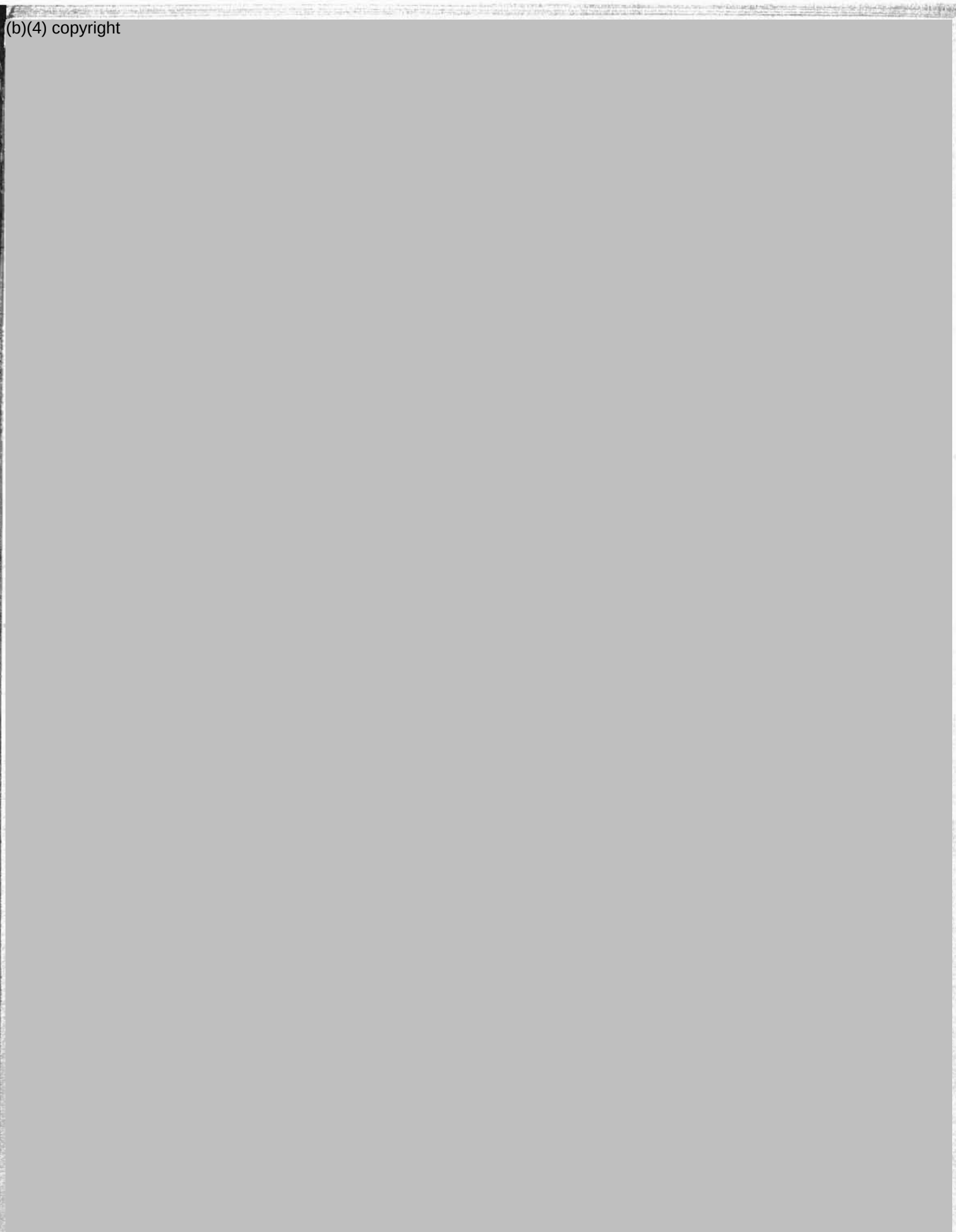

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Temporary Housing

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Cable key manual
Guards

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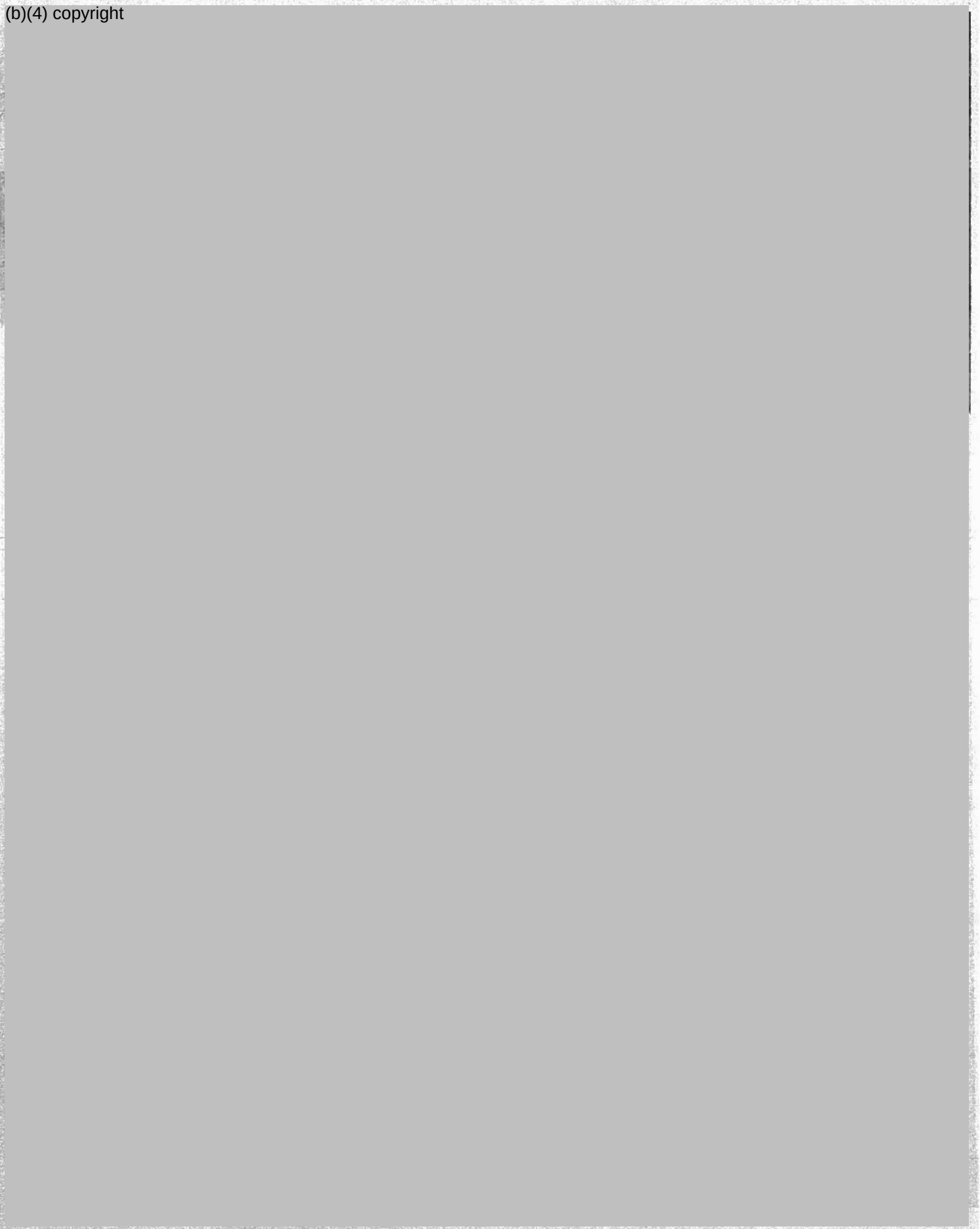

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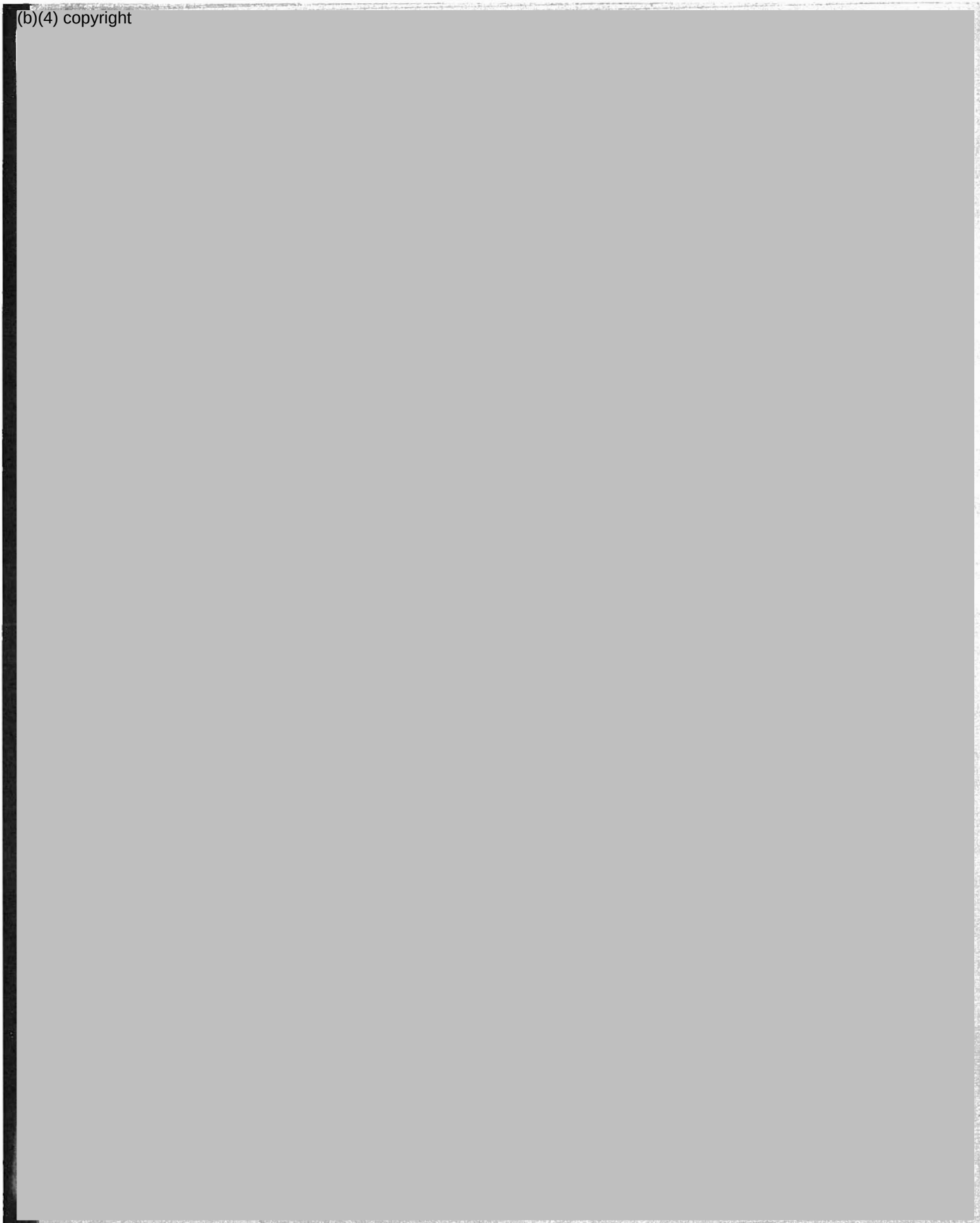

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John Volpe

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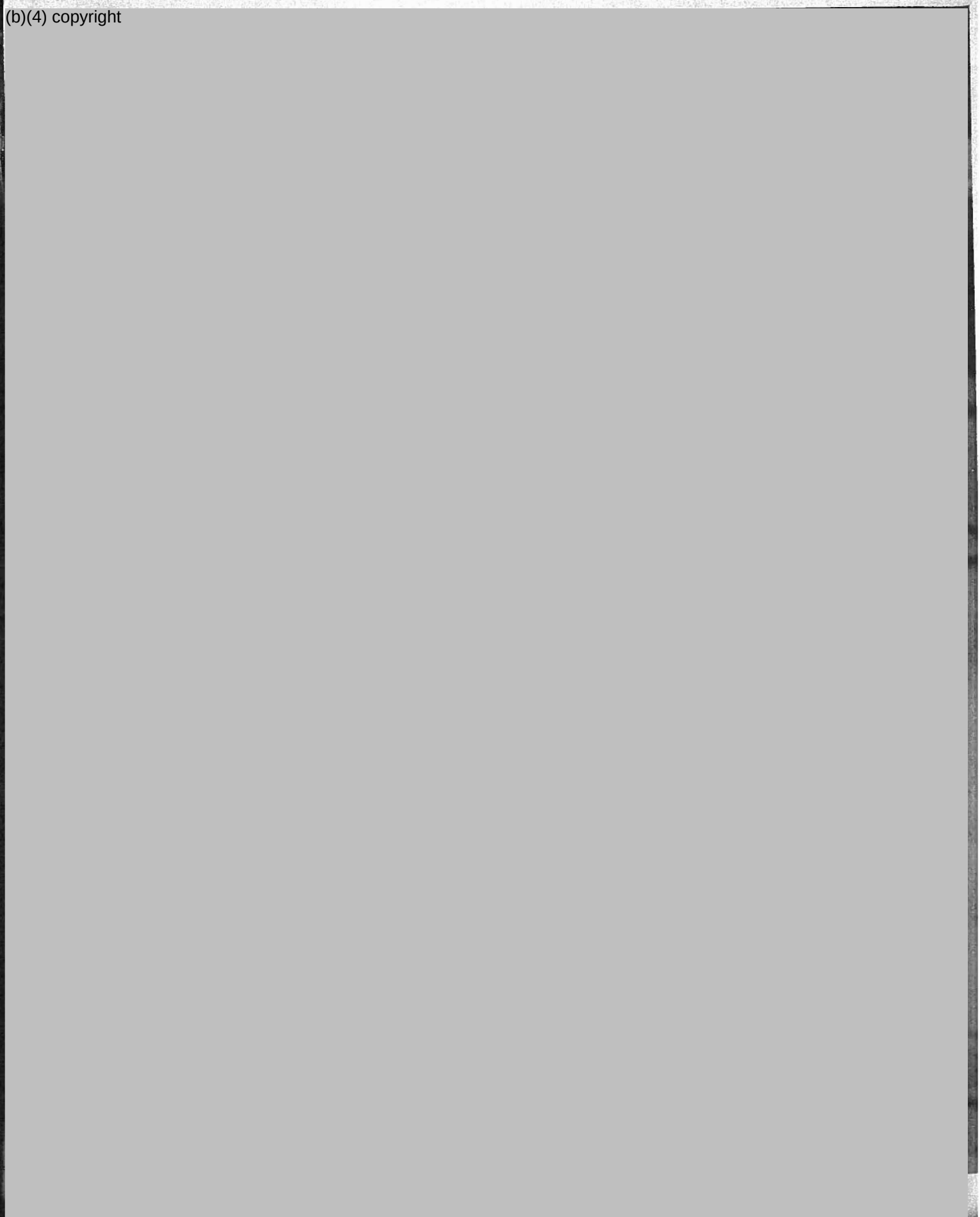
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John Volpe

Cable Teller opens

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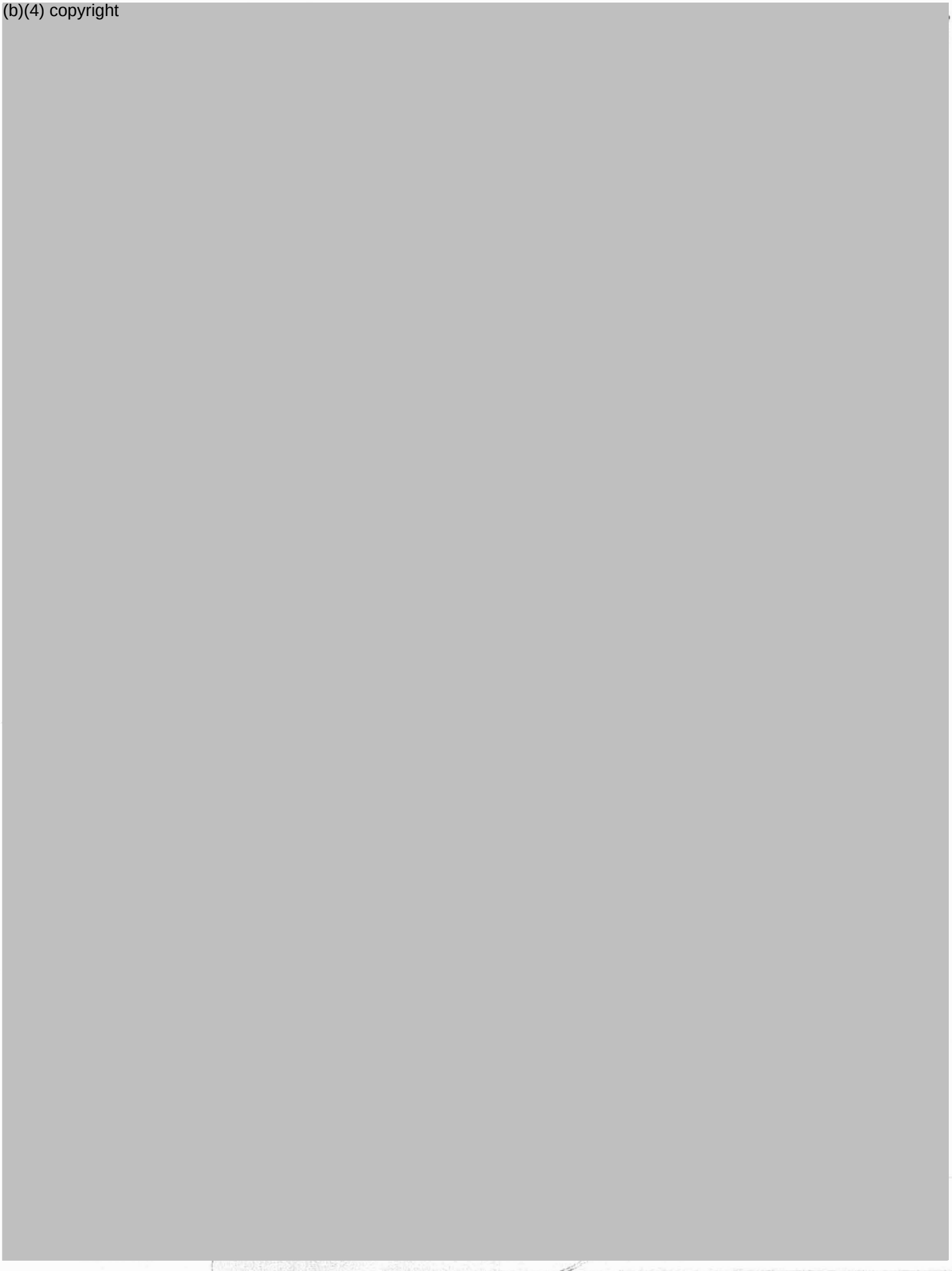

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28

ORG LOT
~~COL~~ 274

28

ORG LOT
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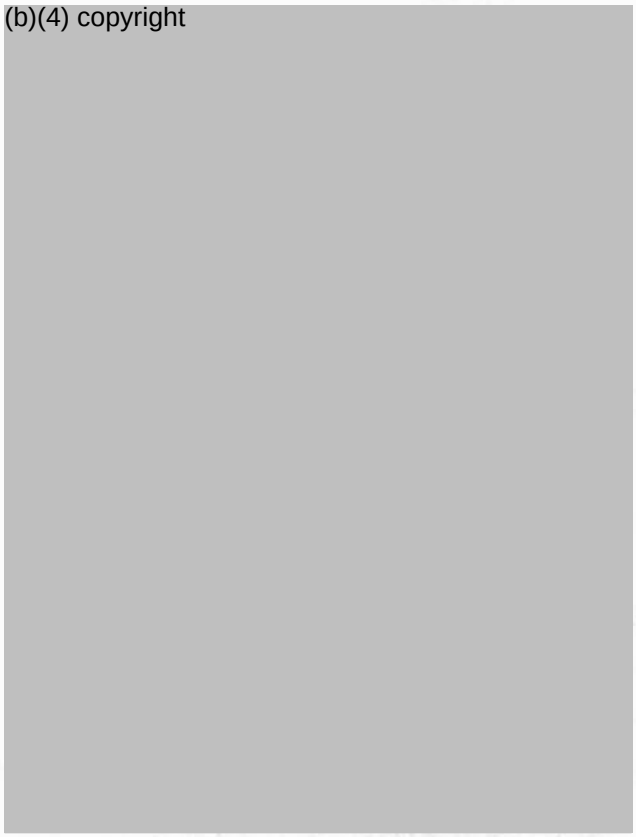

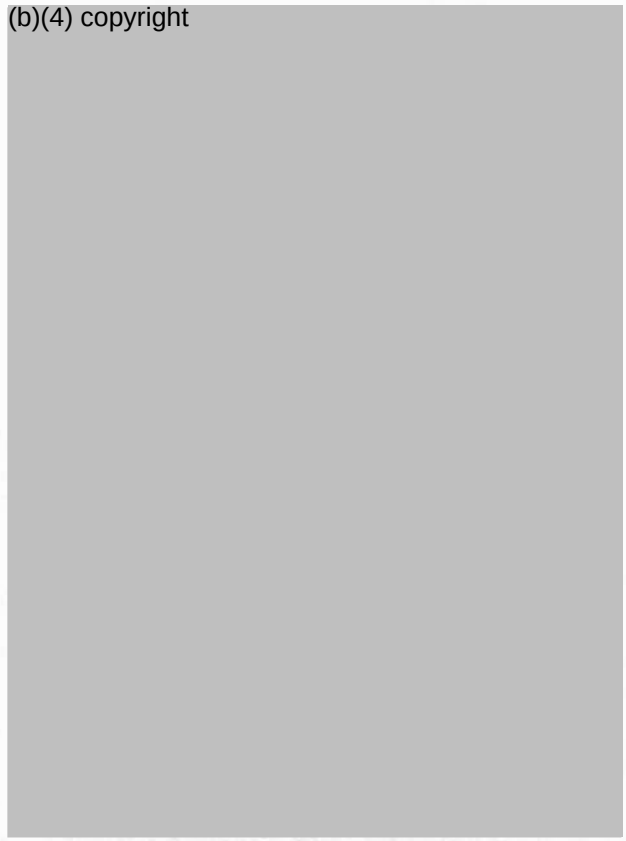

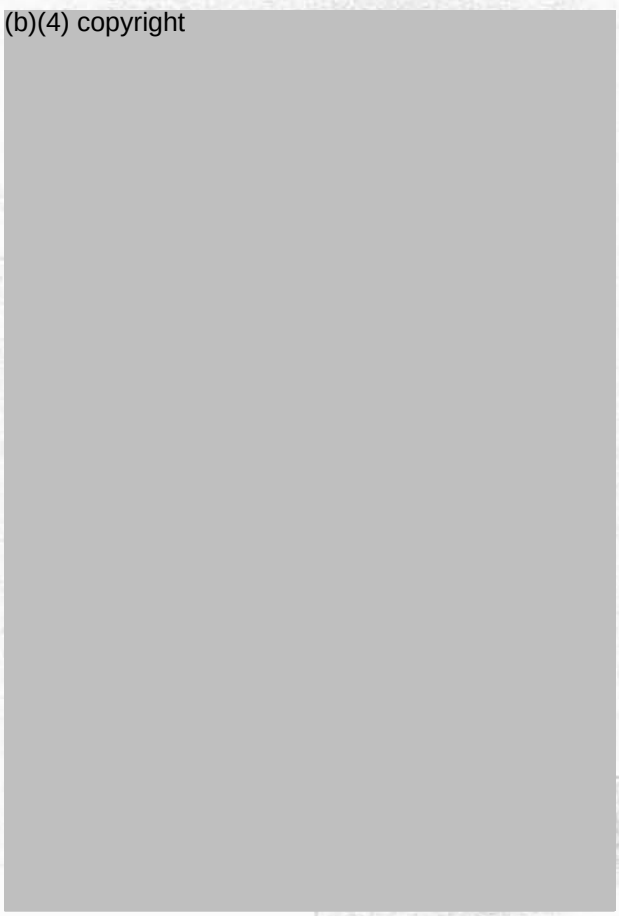

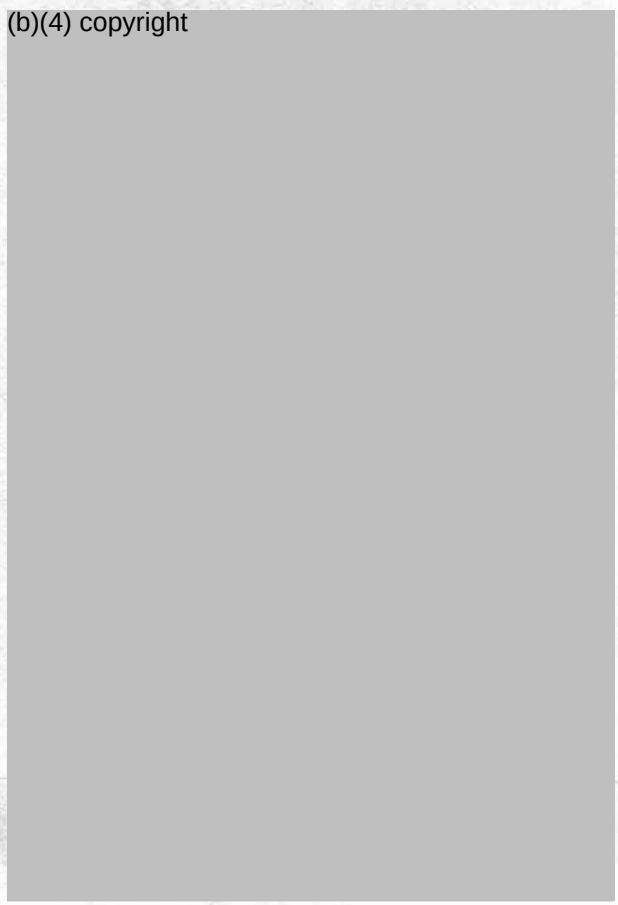

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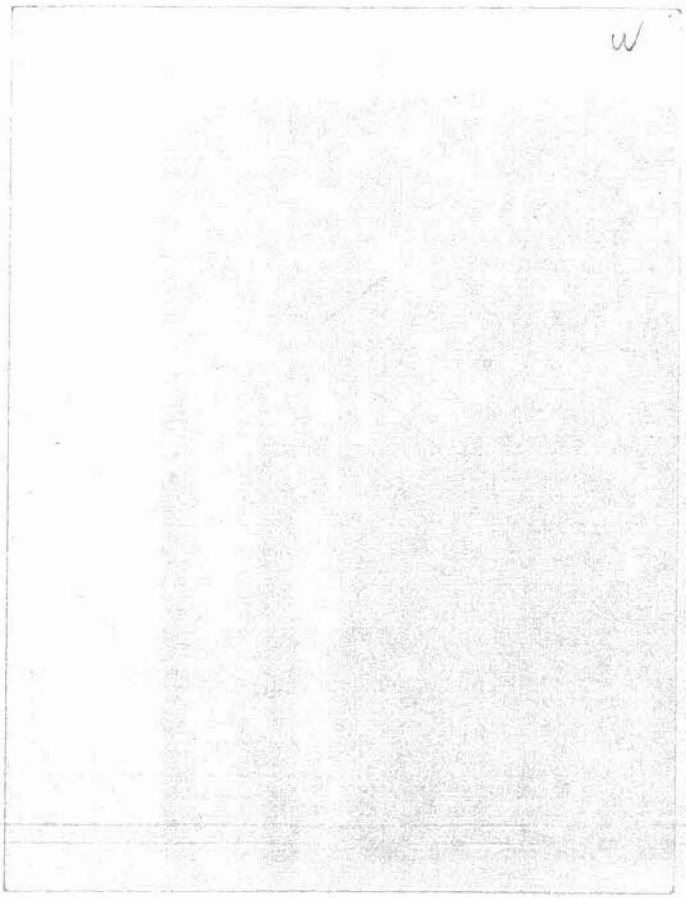

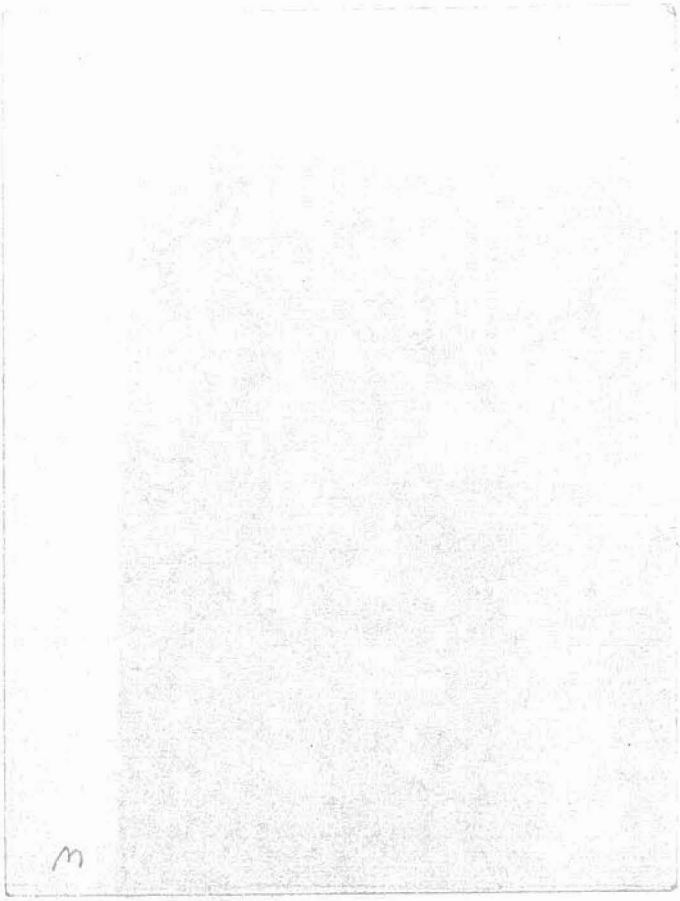

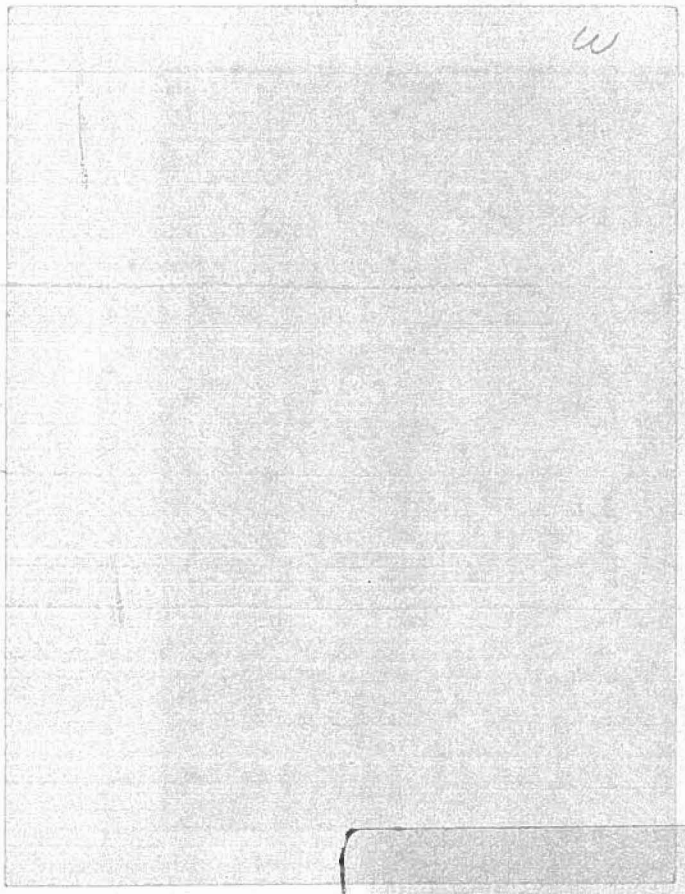

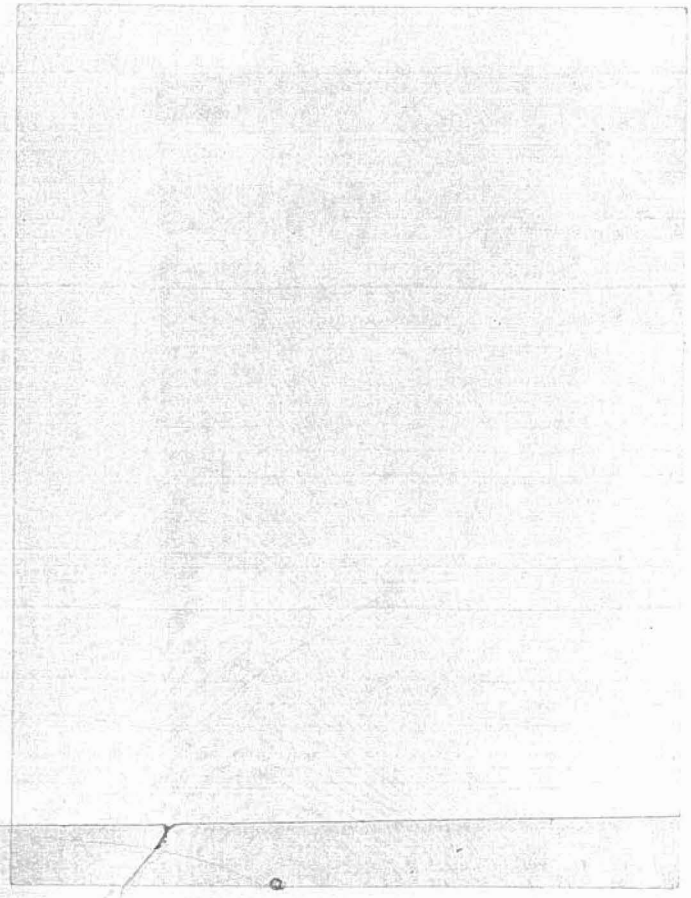

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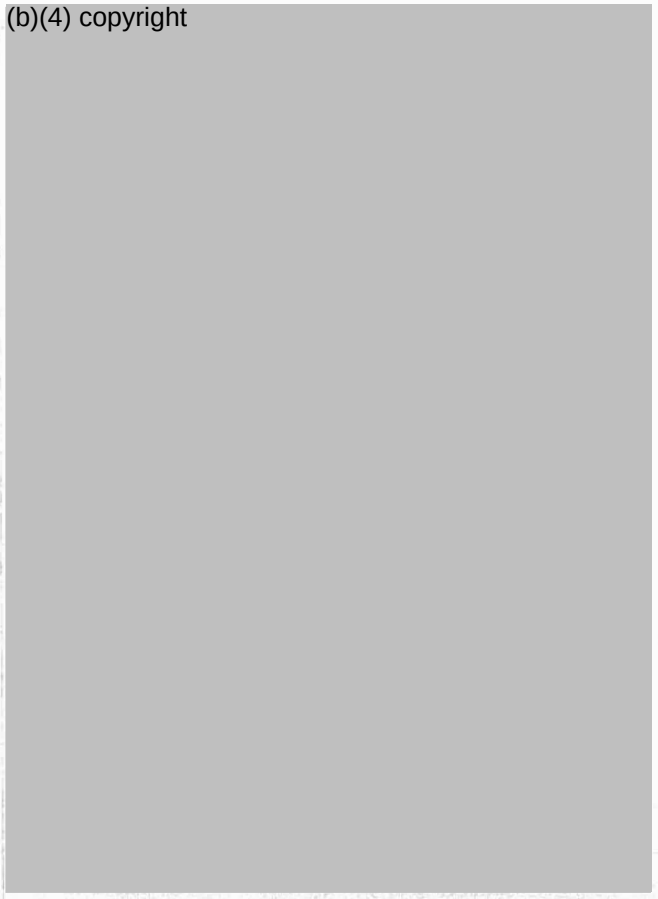

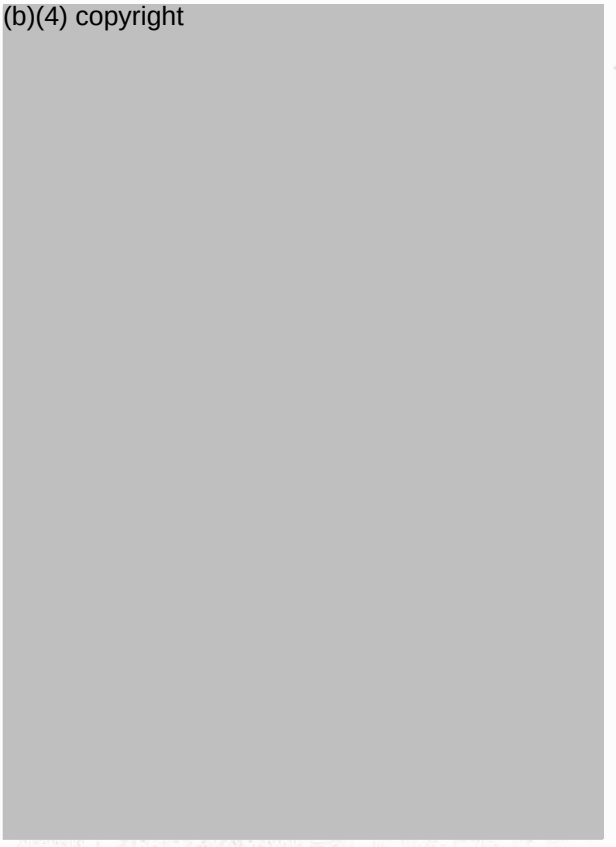

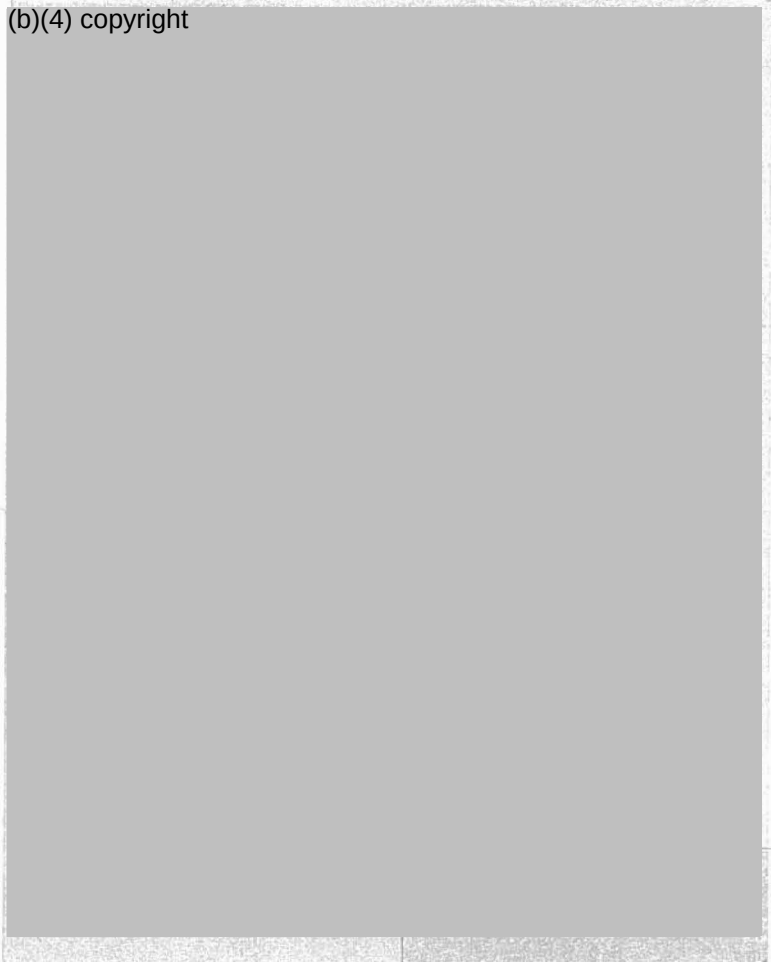

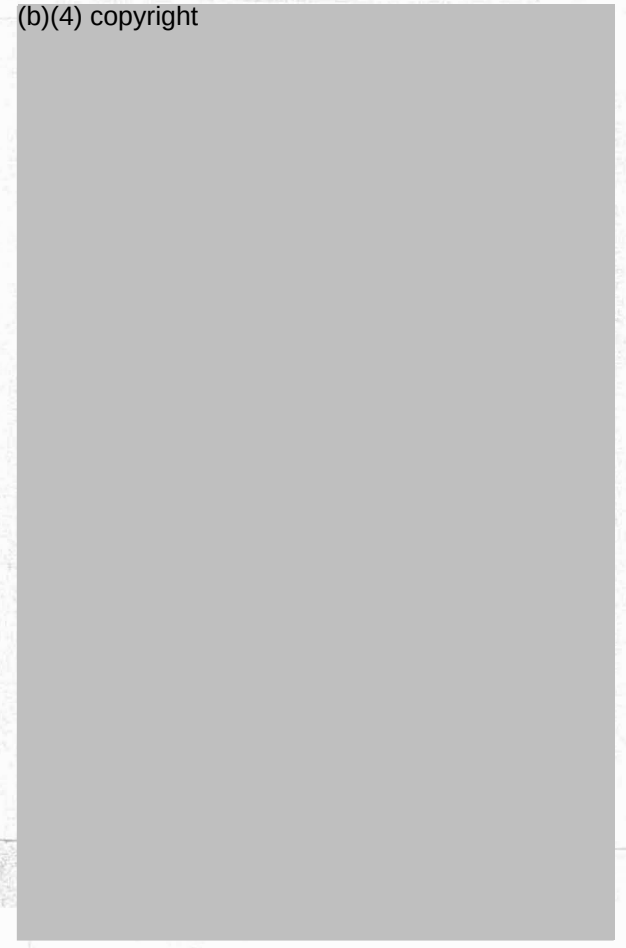

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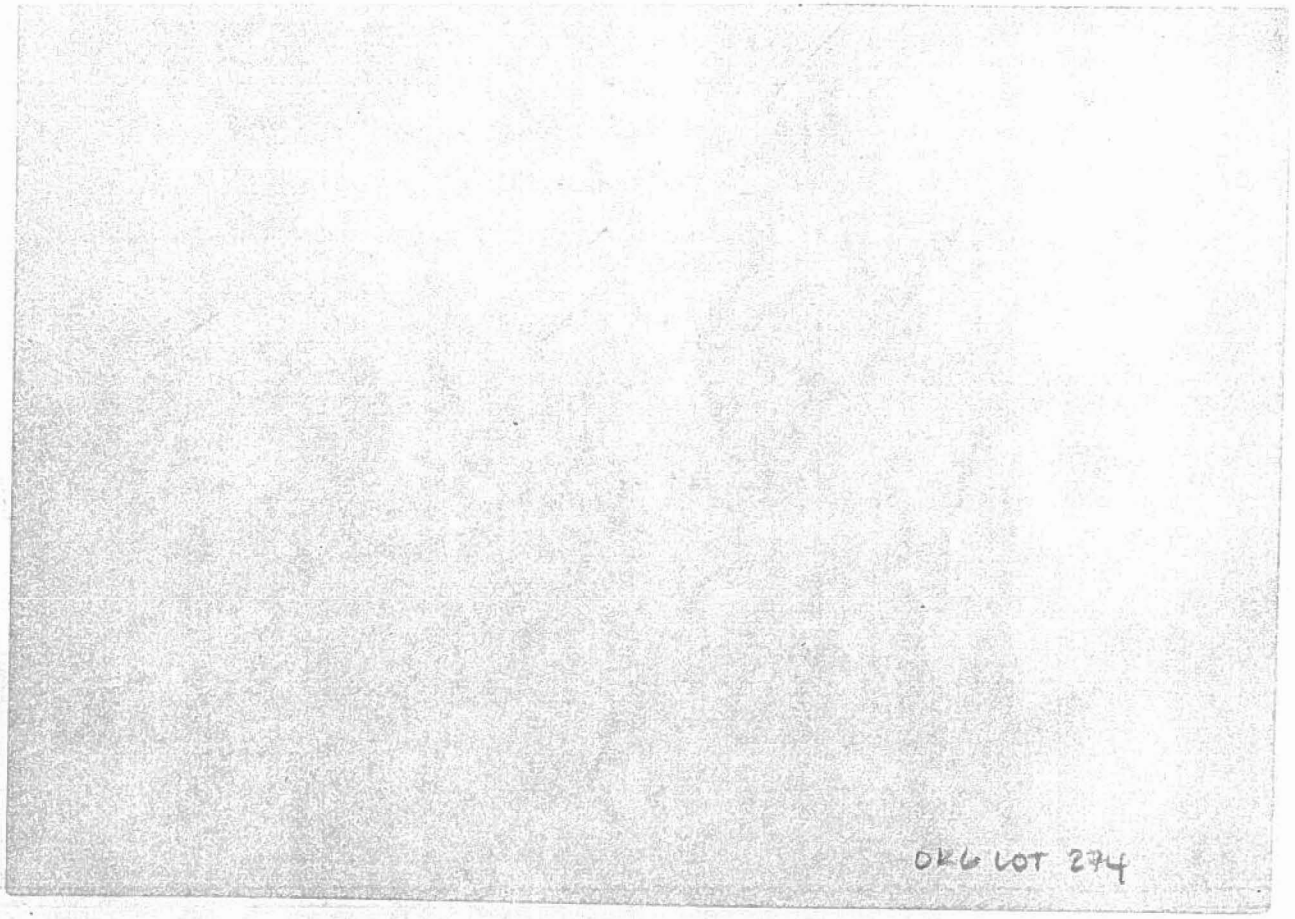

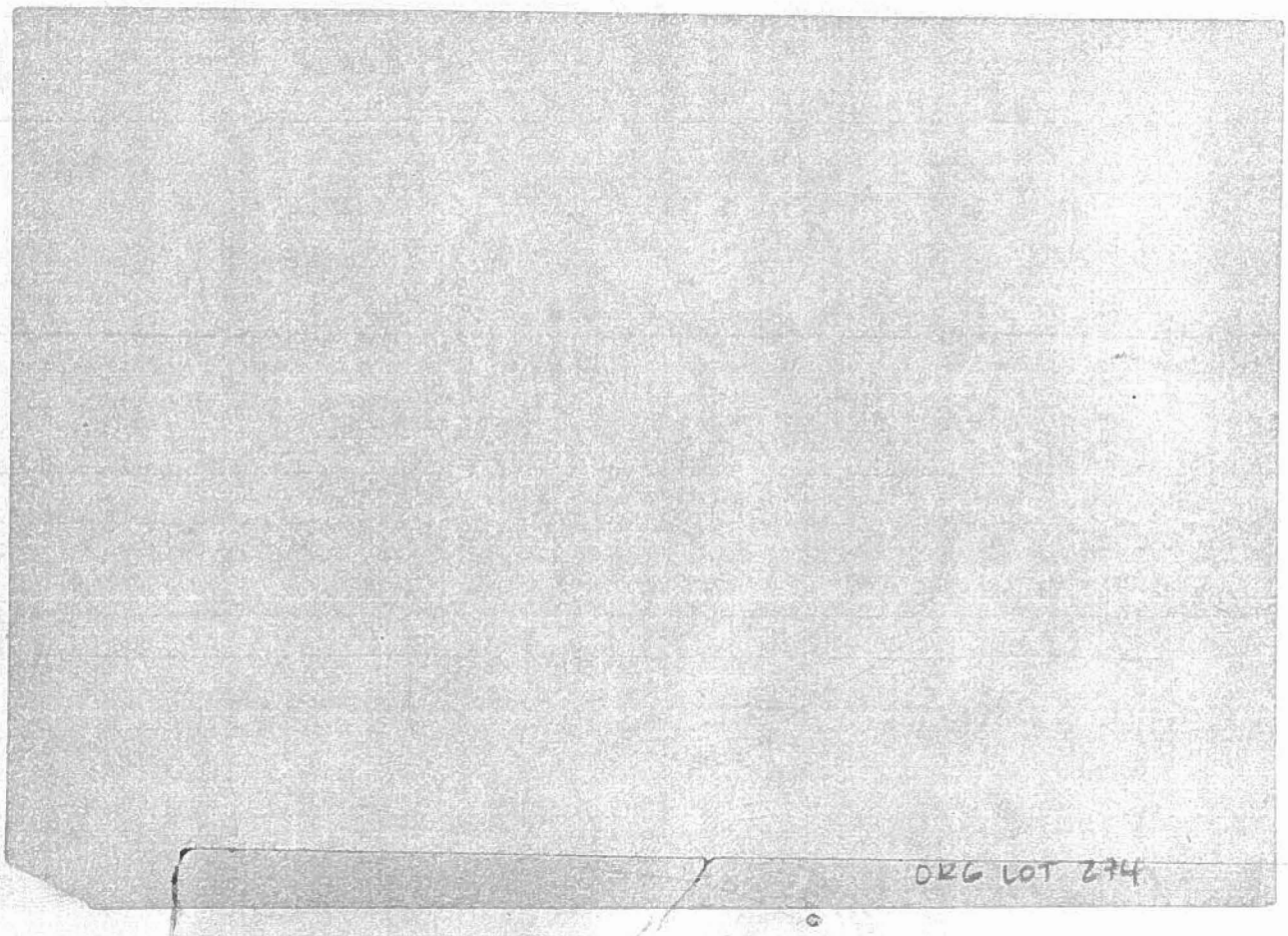

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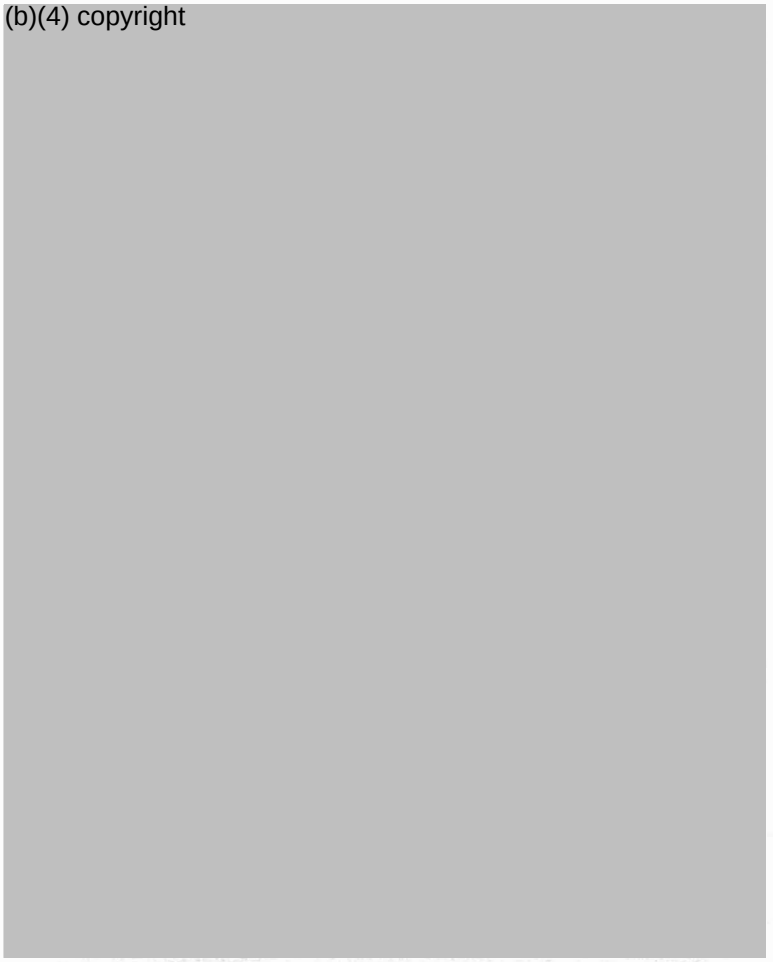

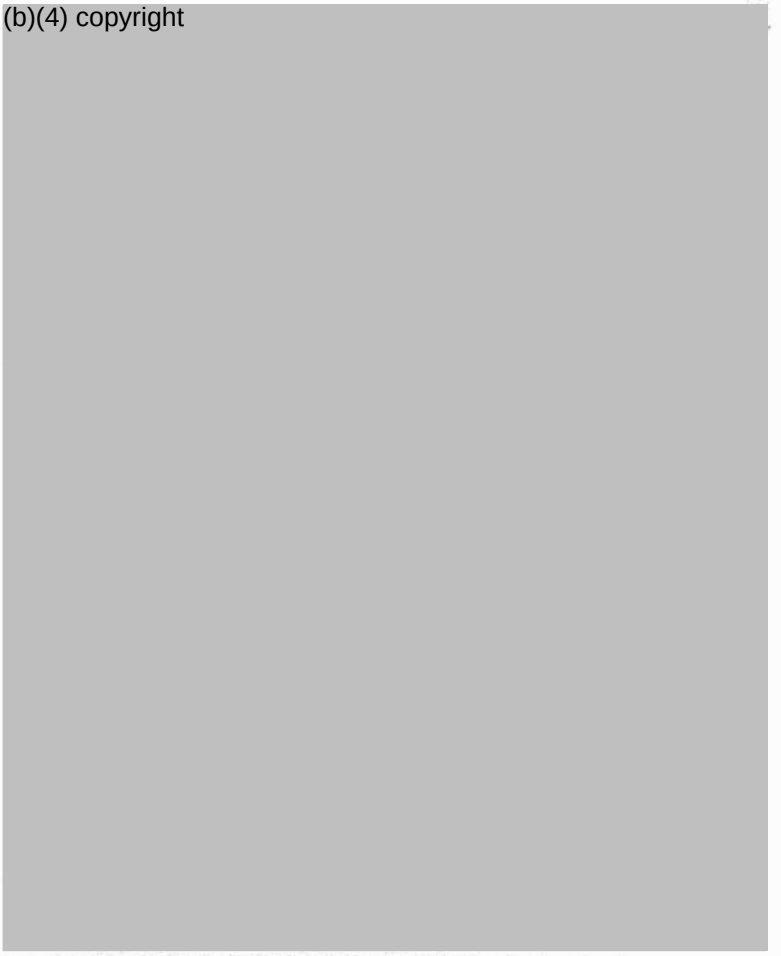

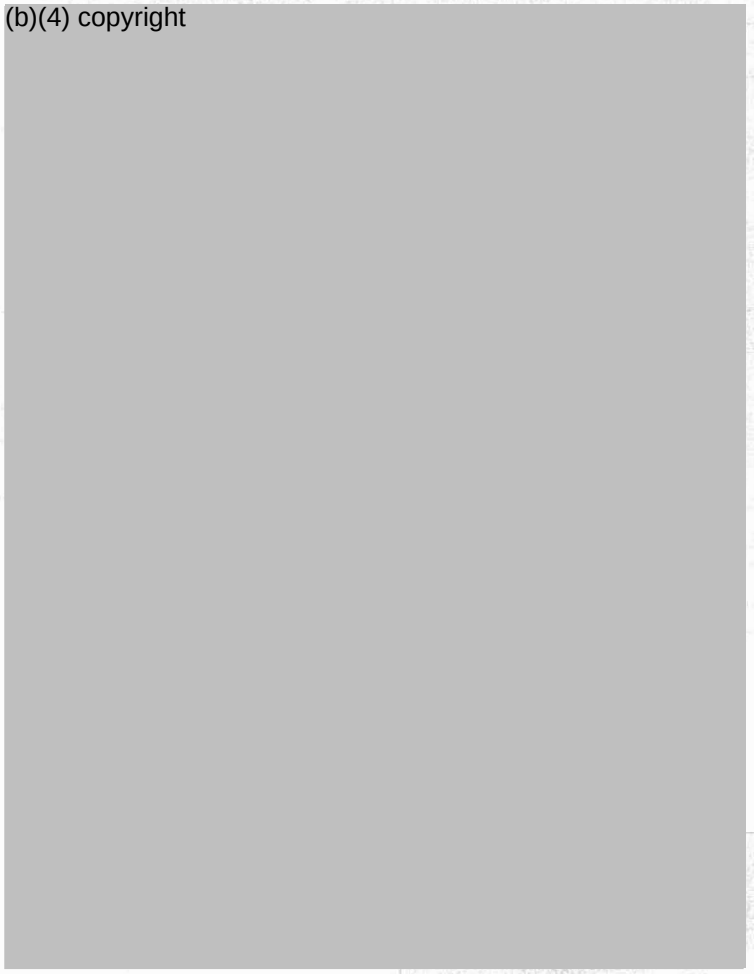

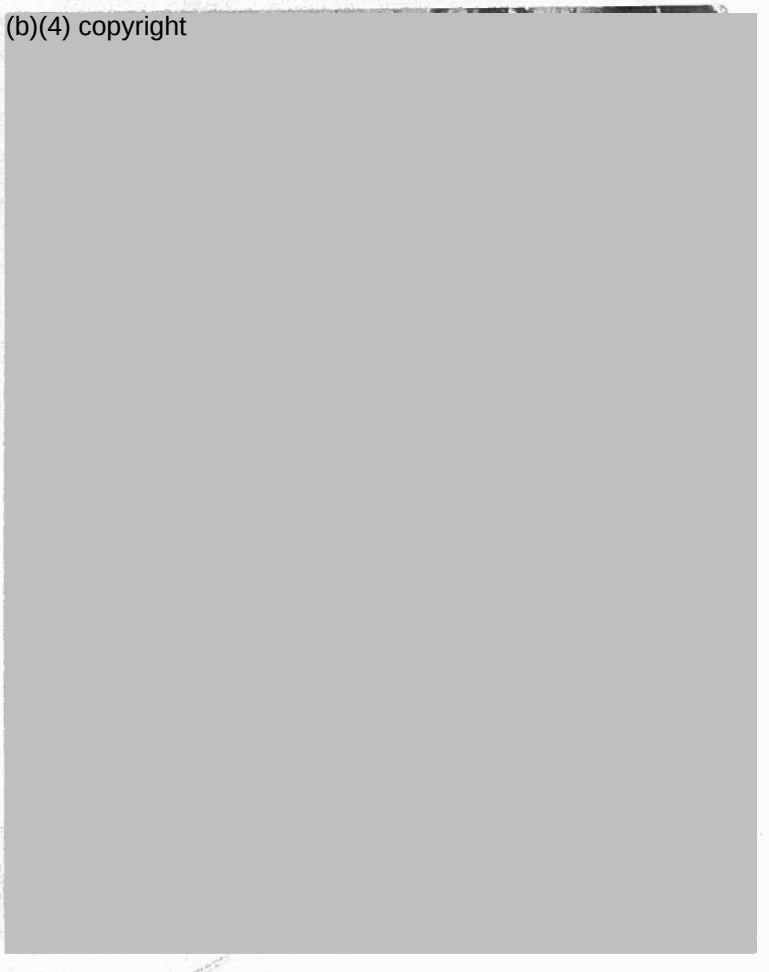

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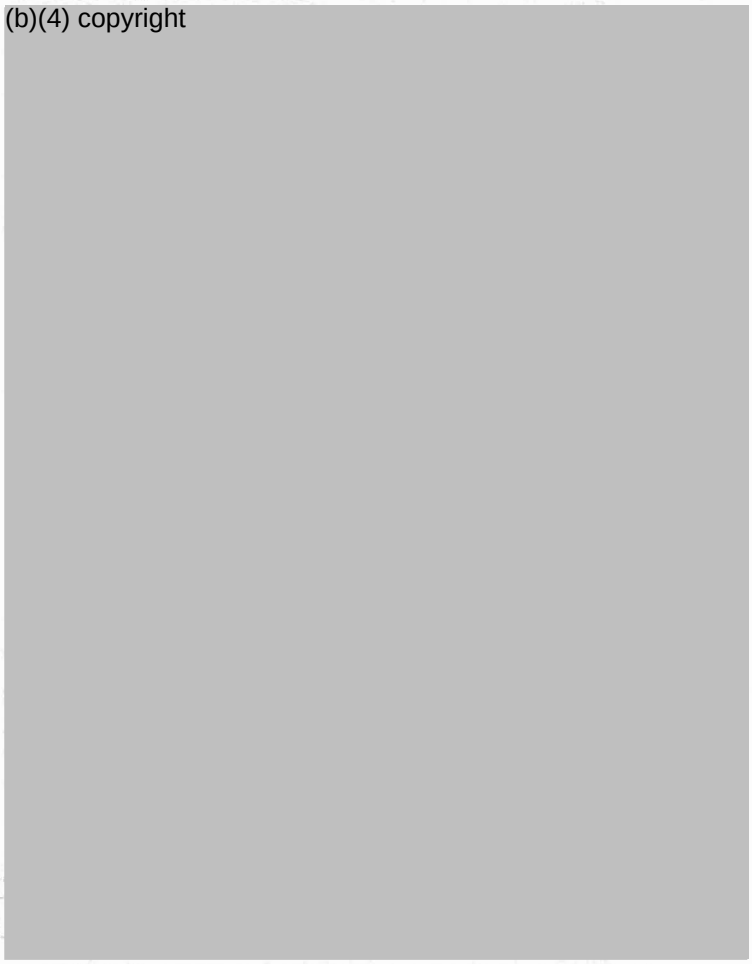

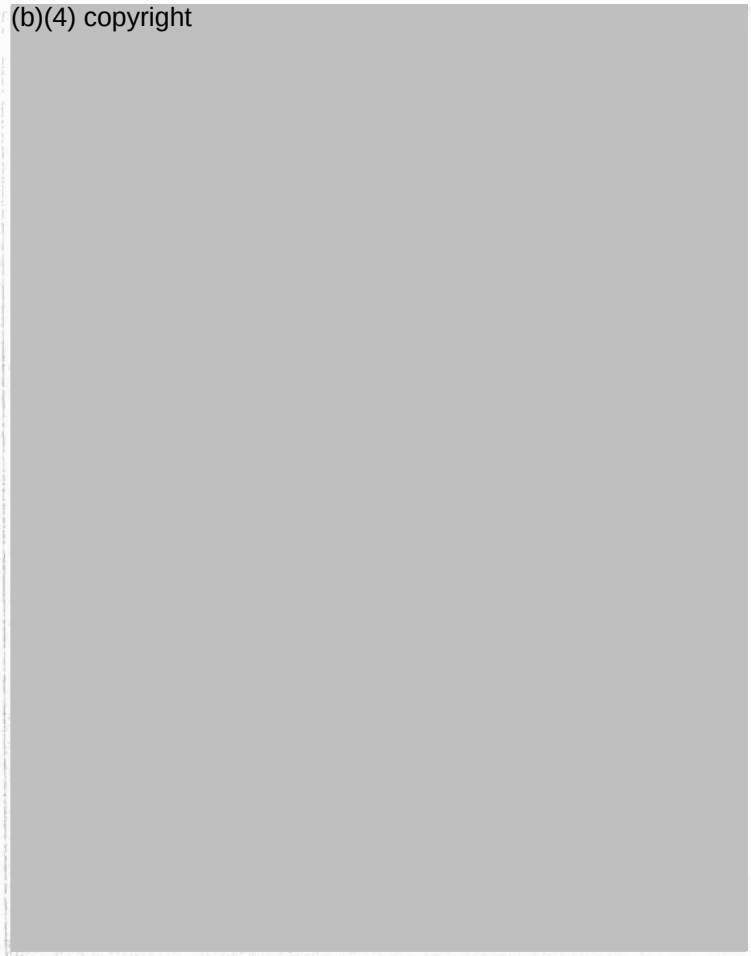

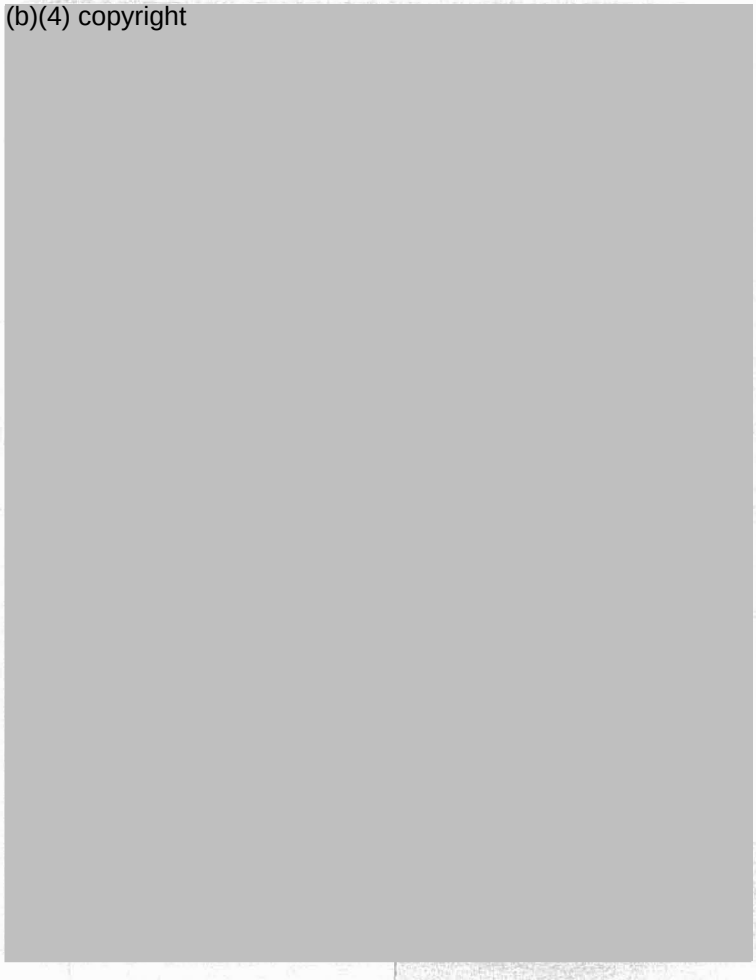

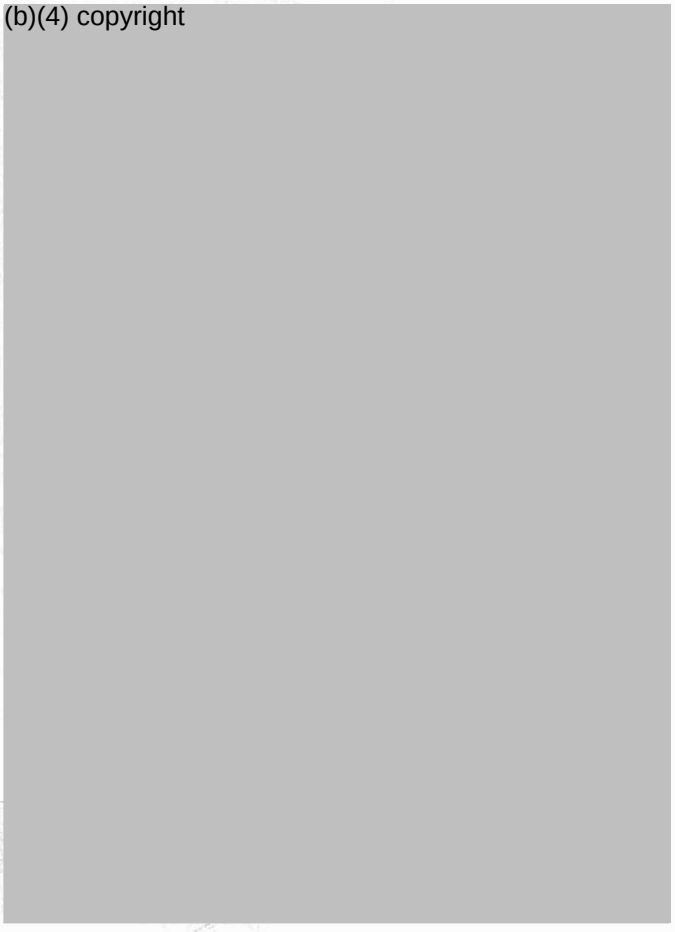

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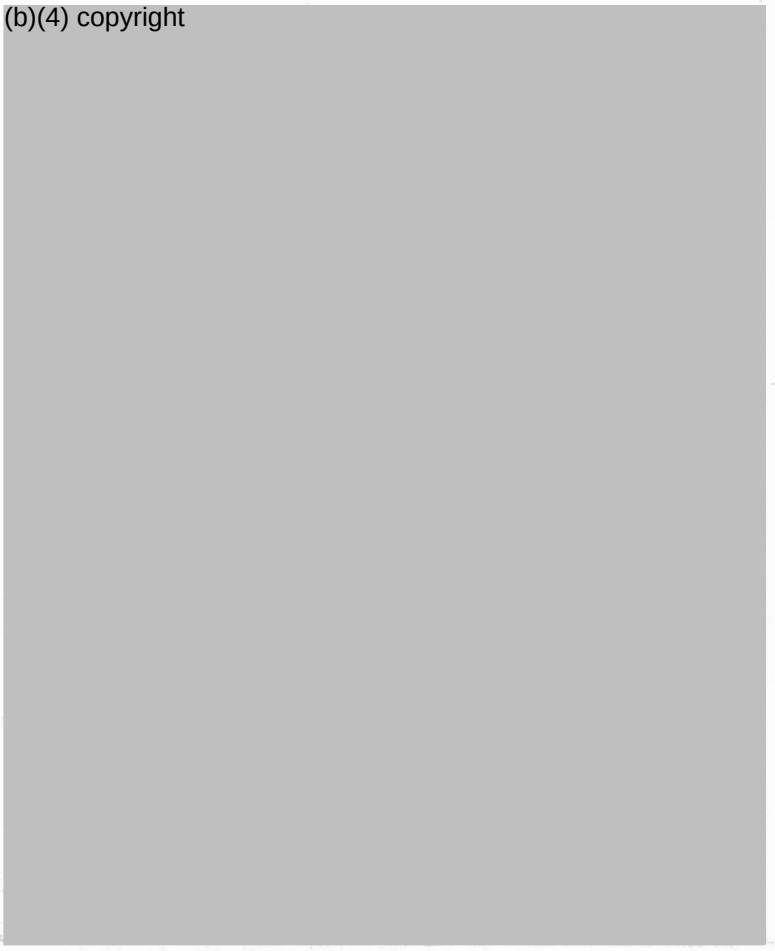

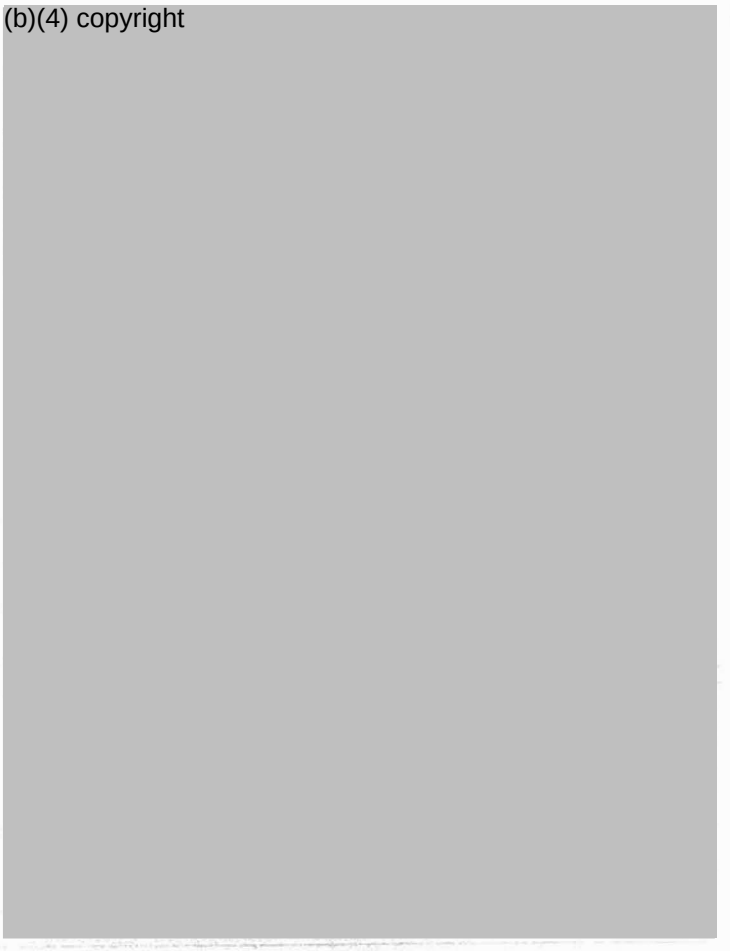

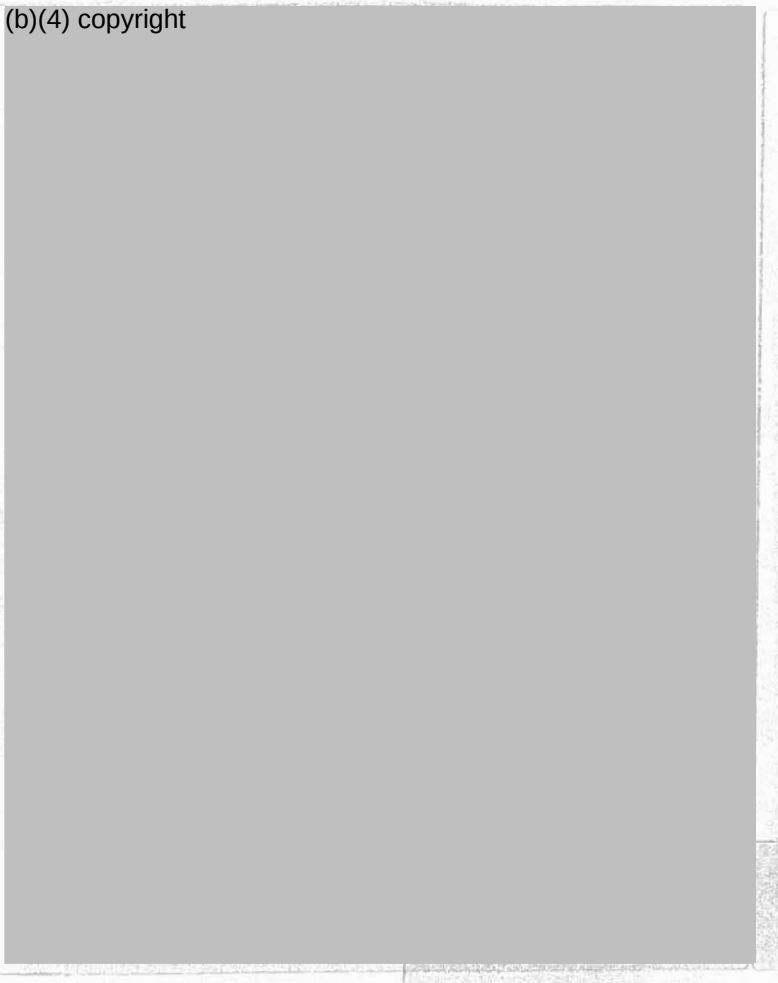

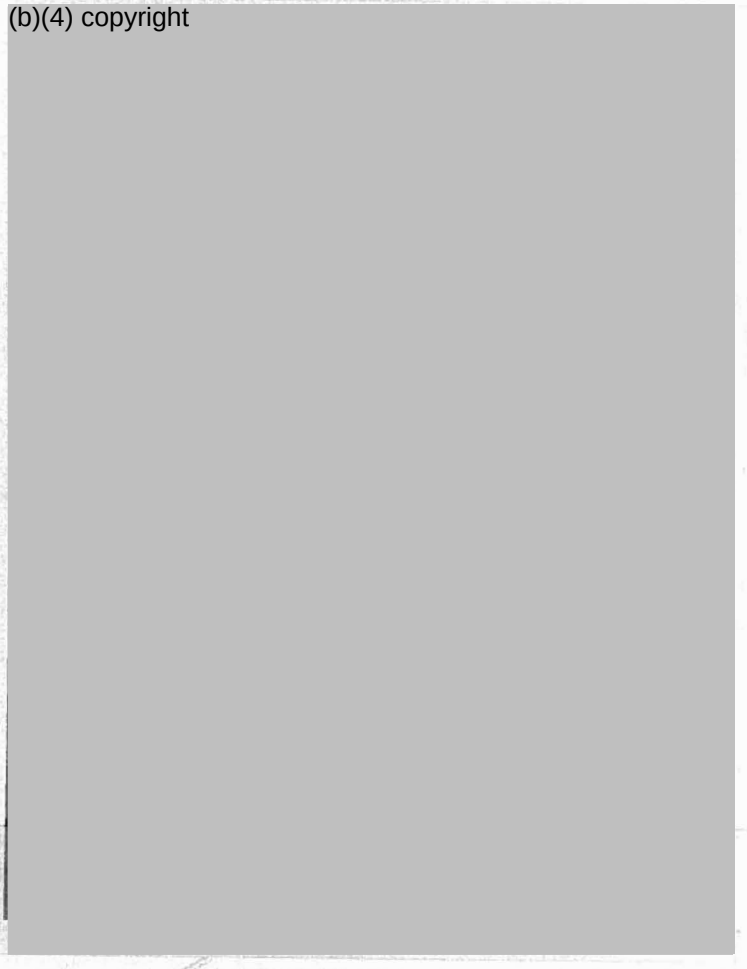

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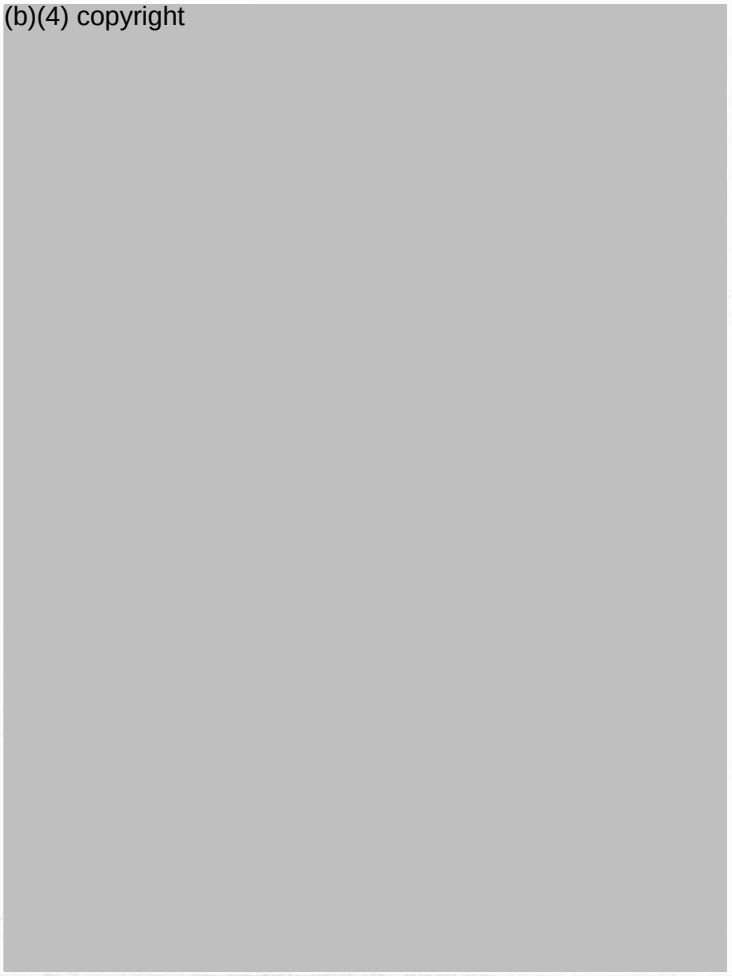

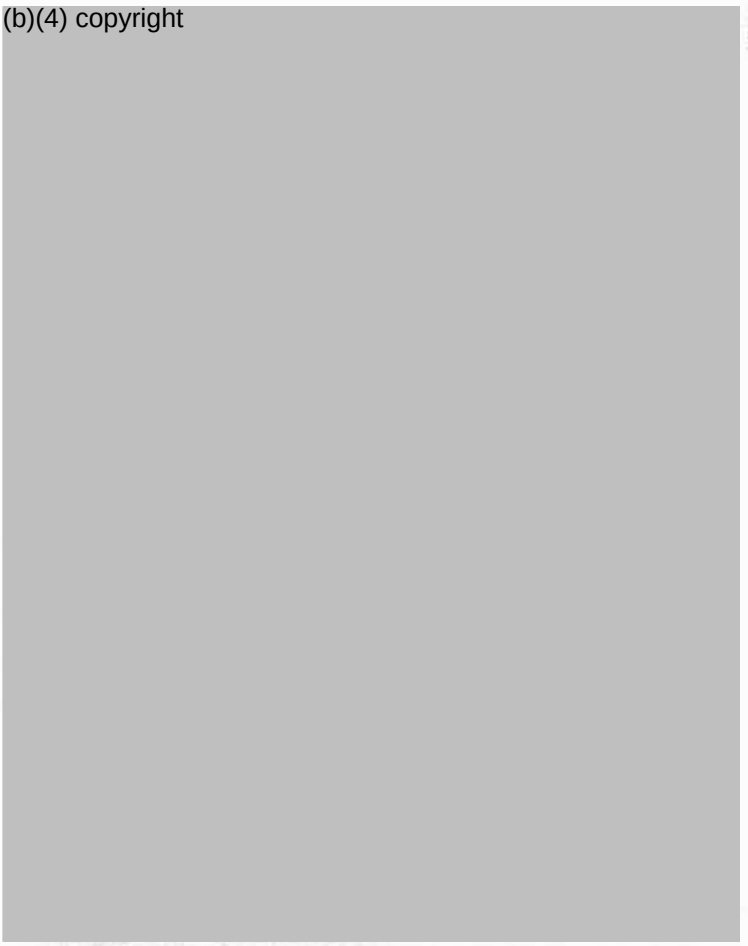

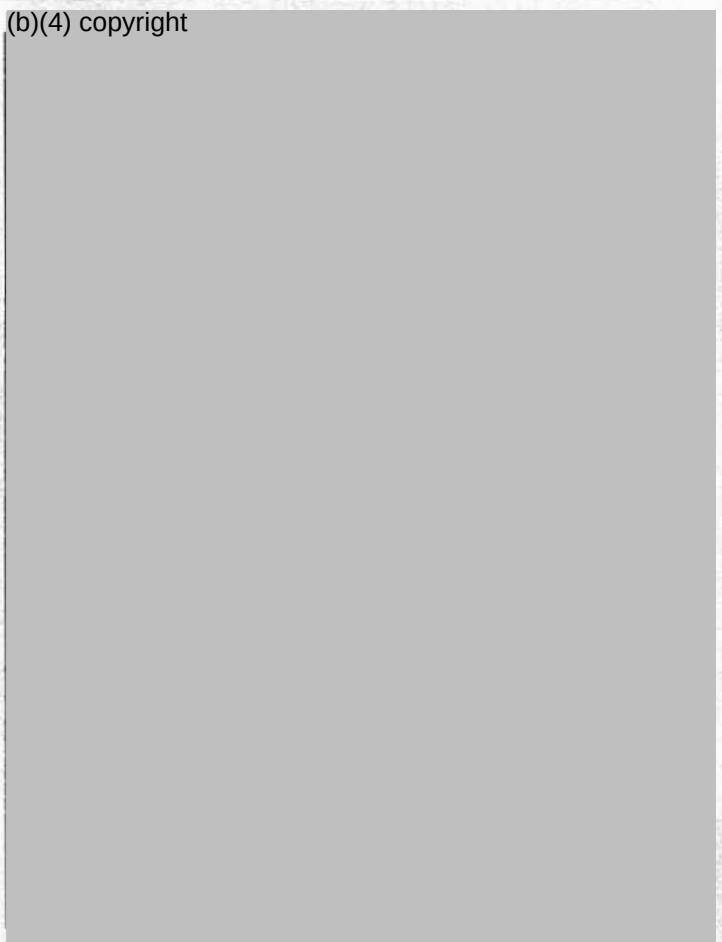

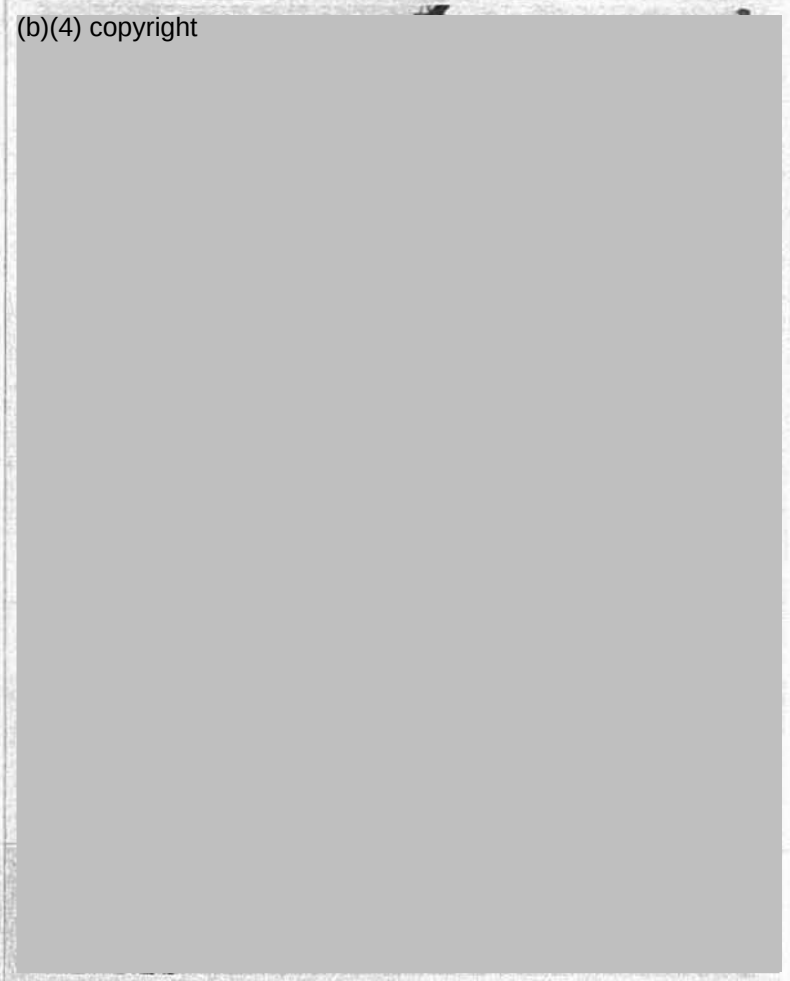

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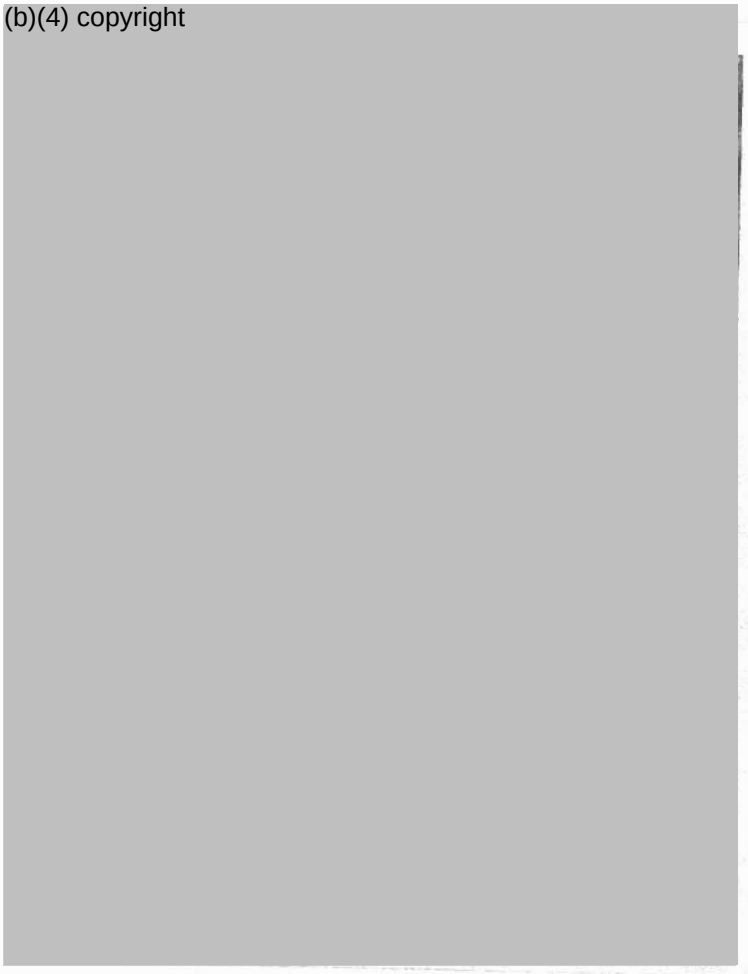

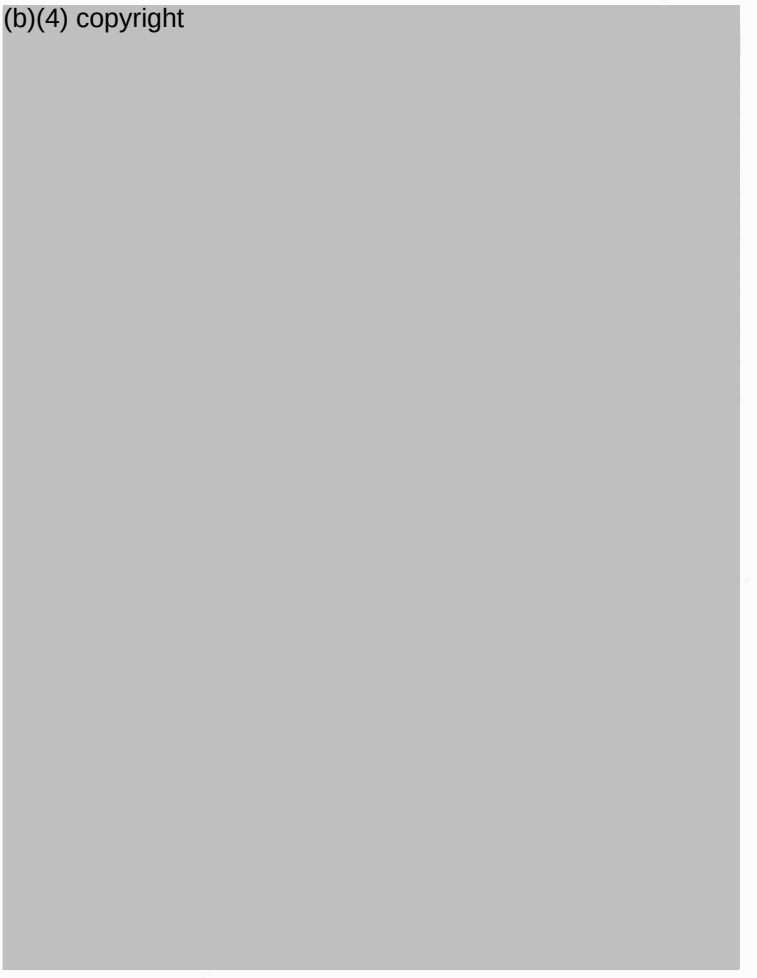

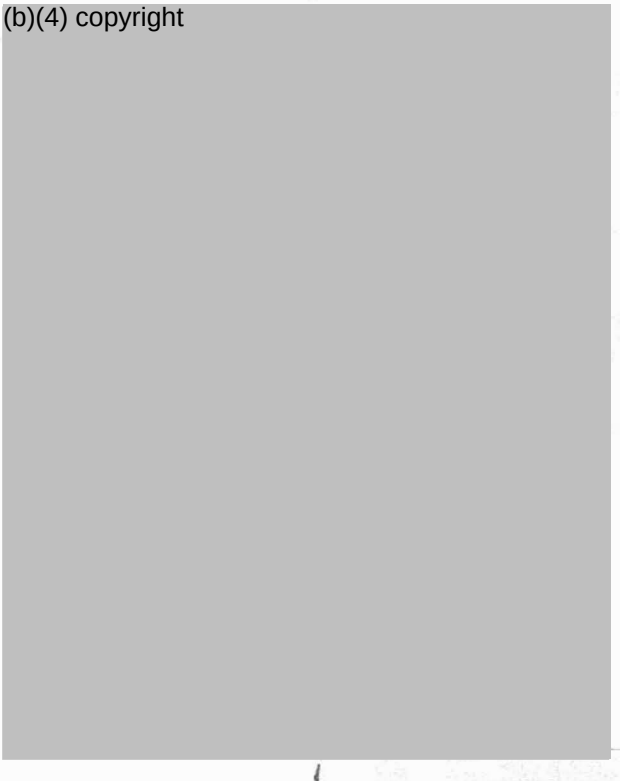

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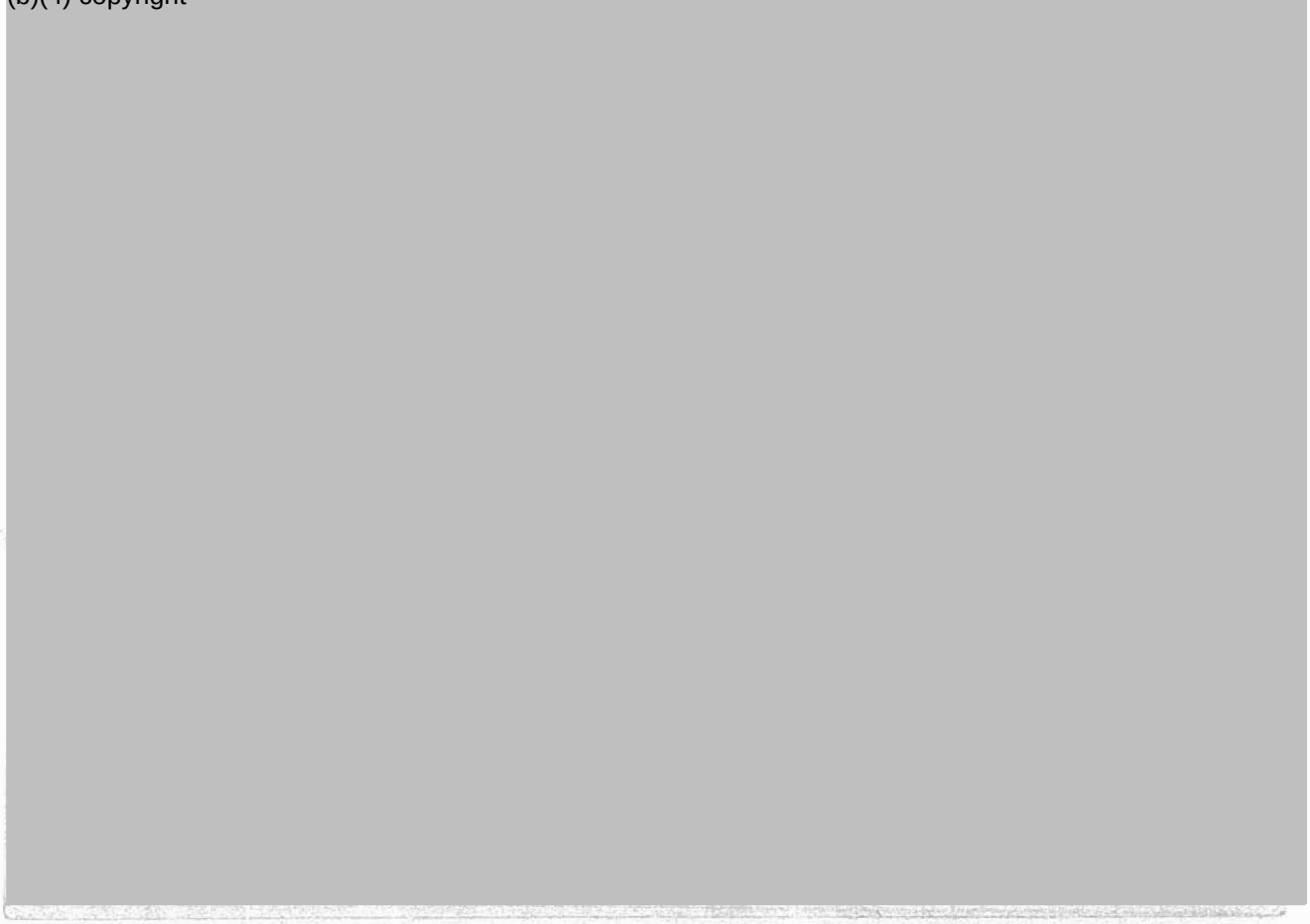

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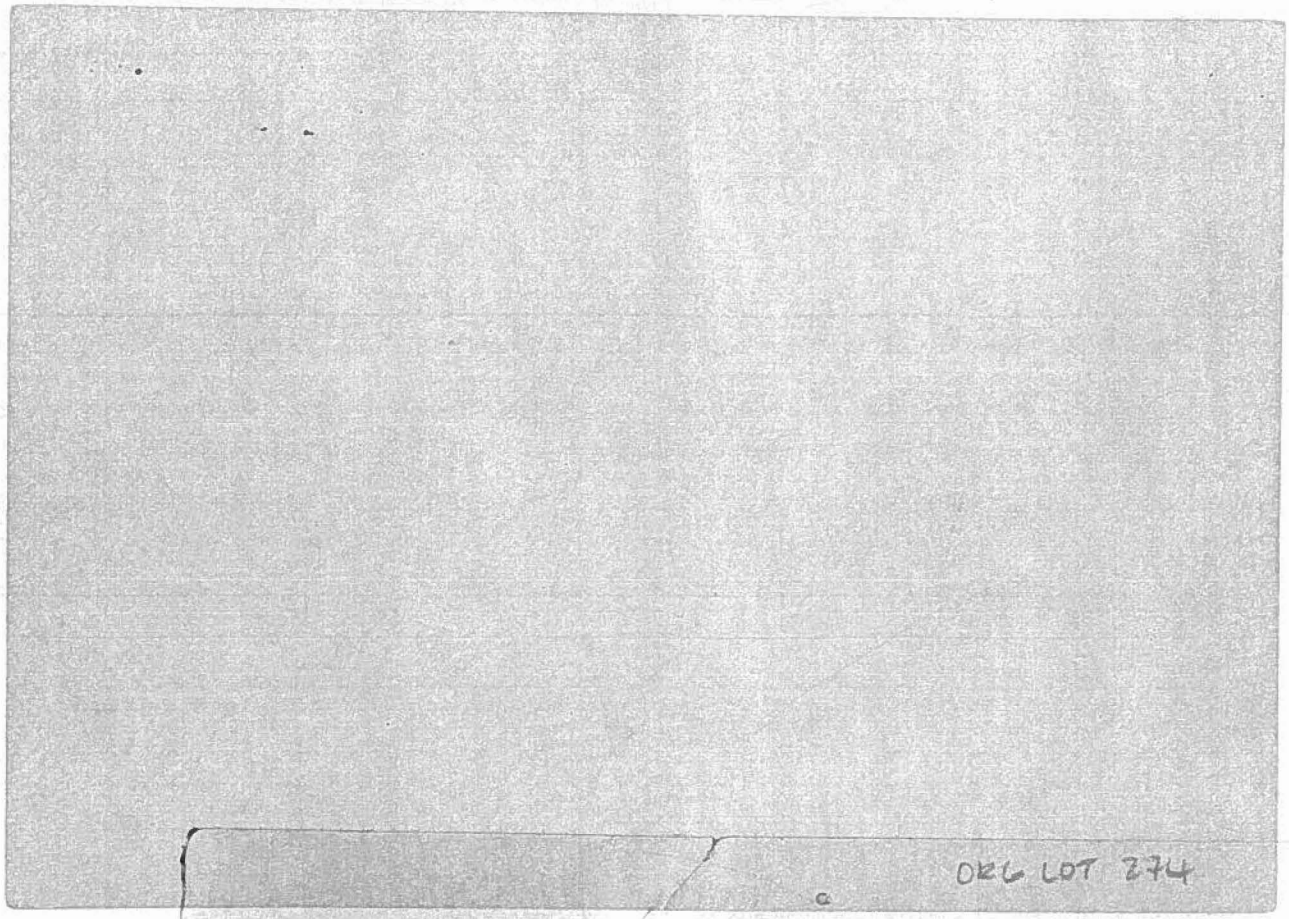

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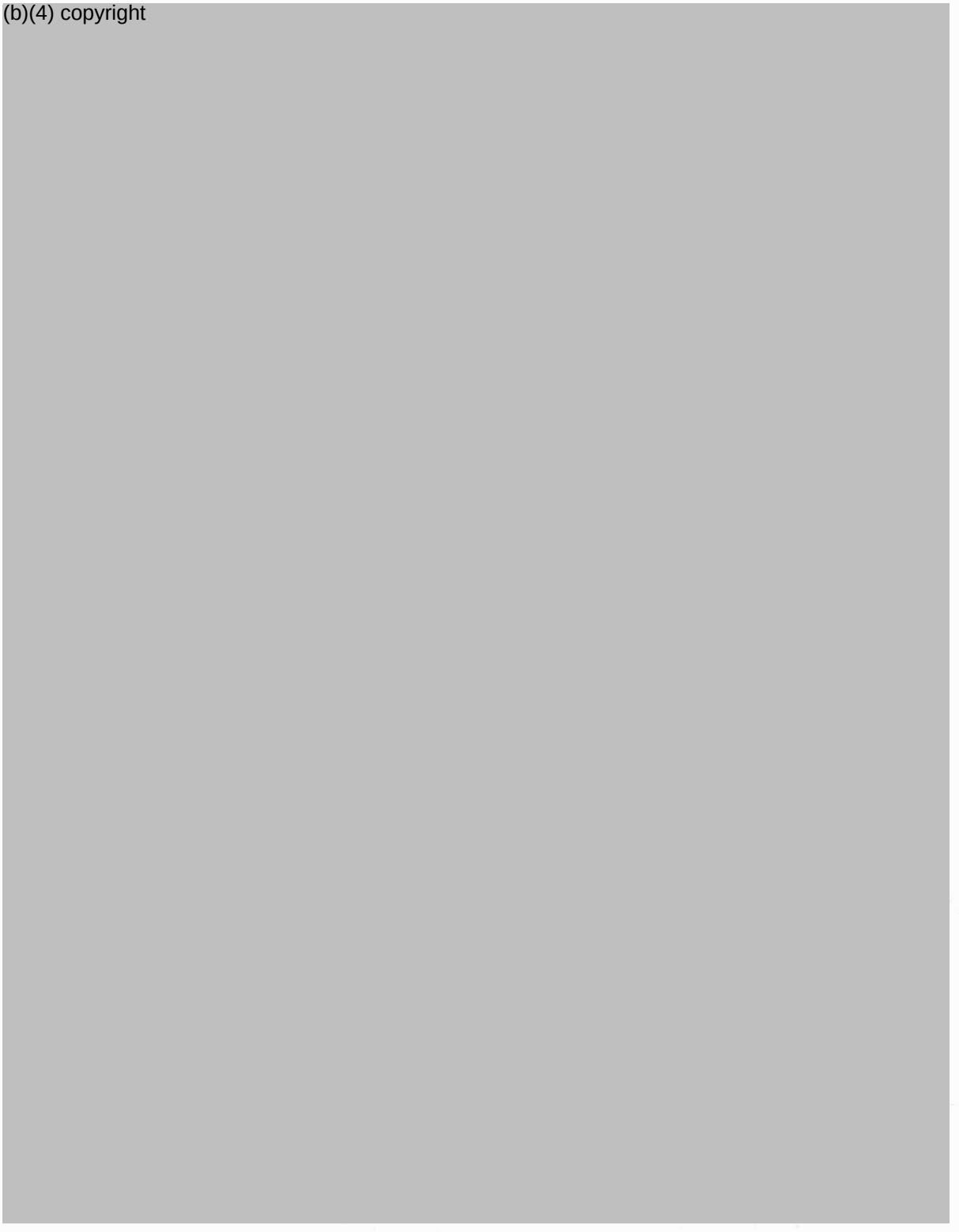

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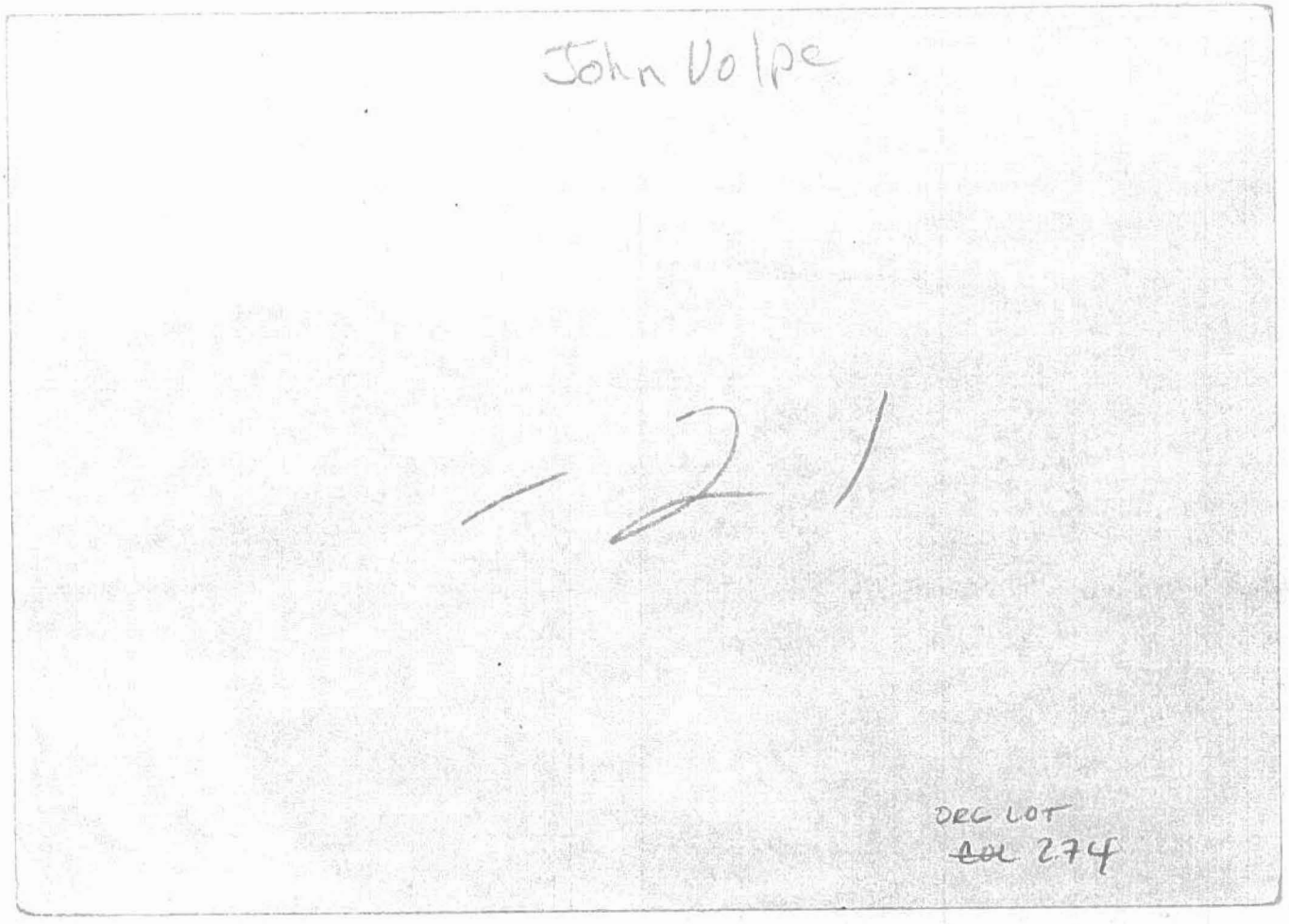

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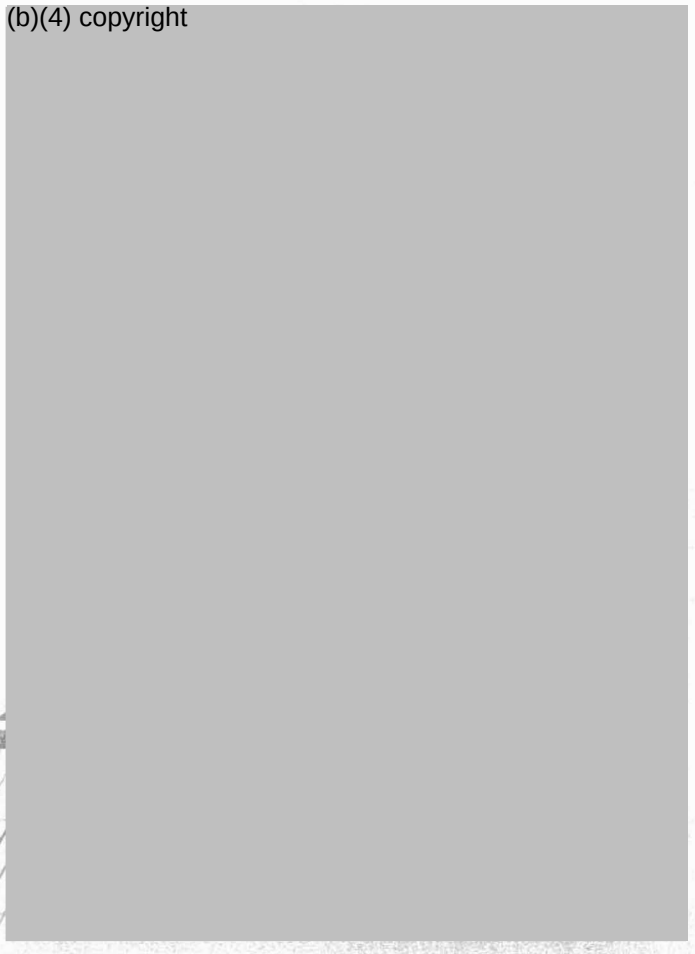

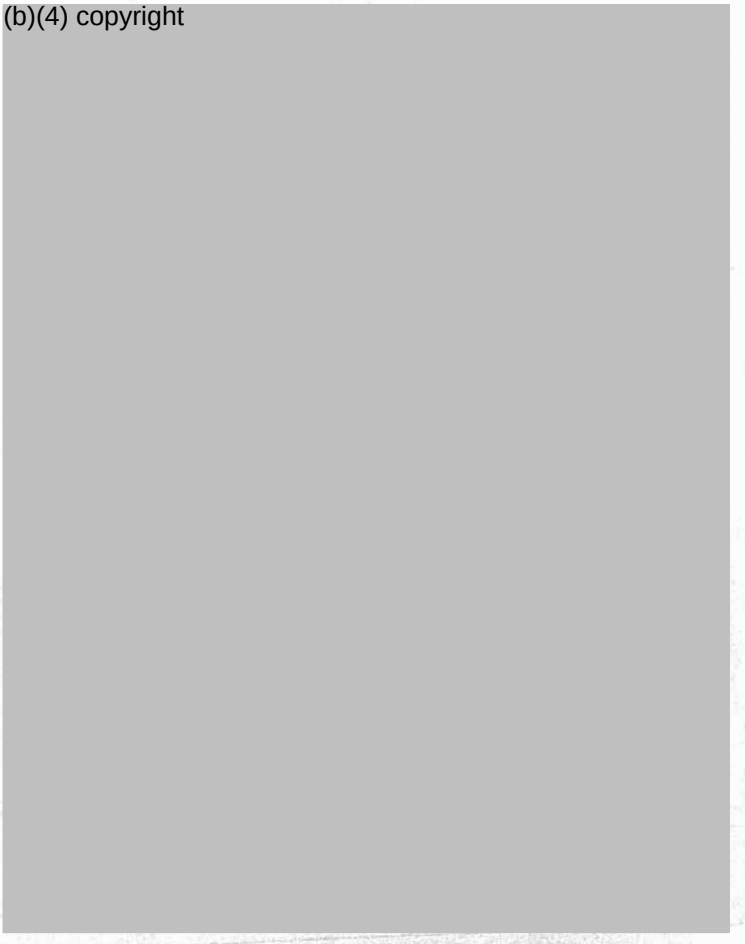

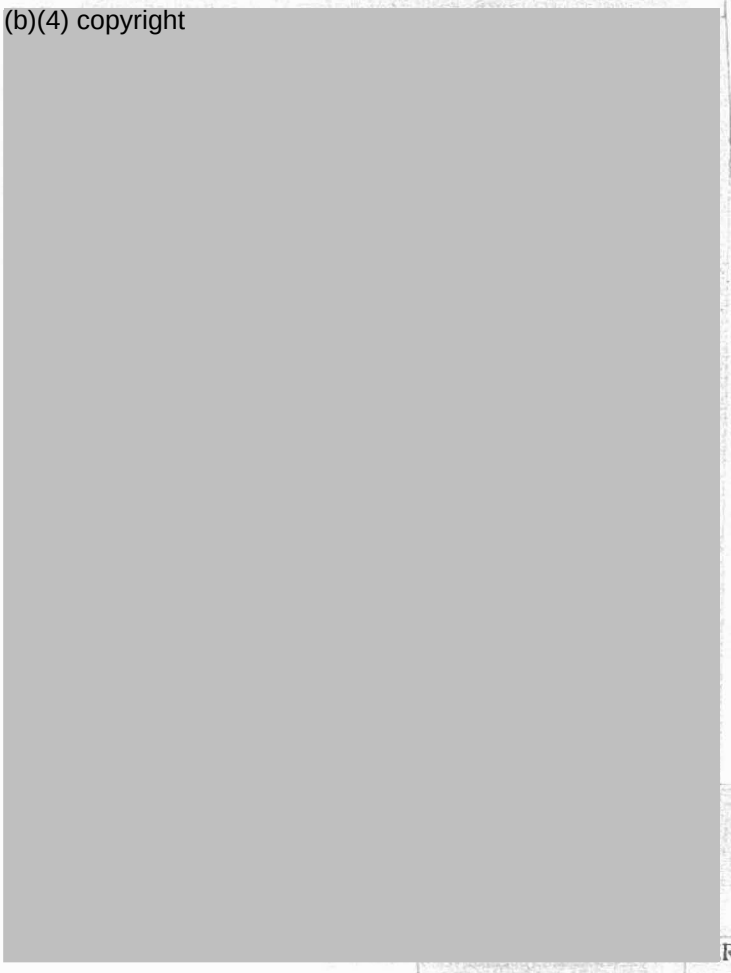

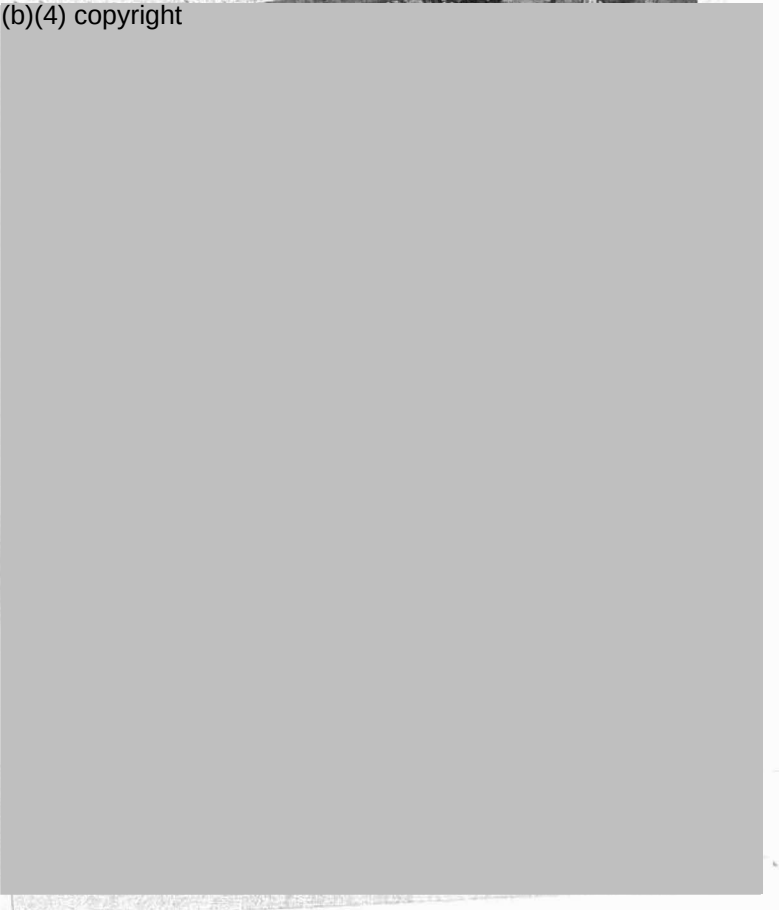

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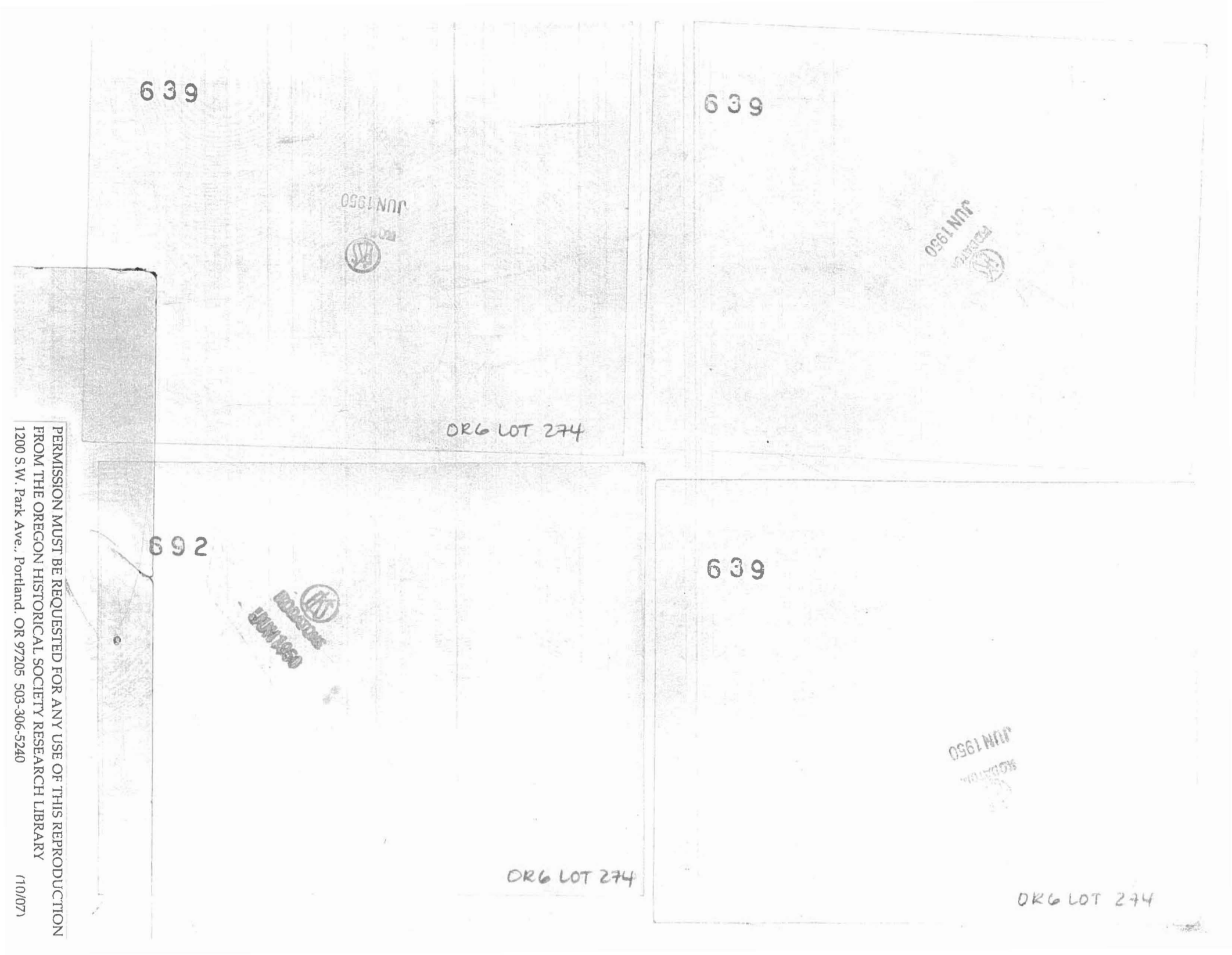

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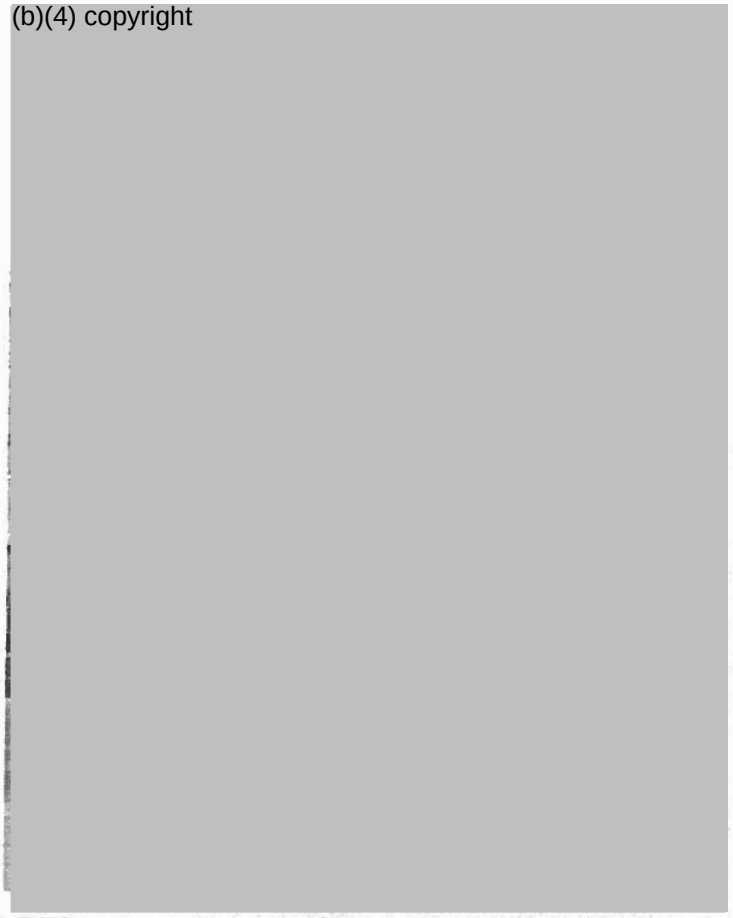

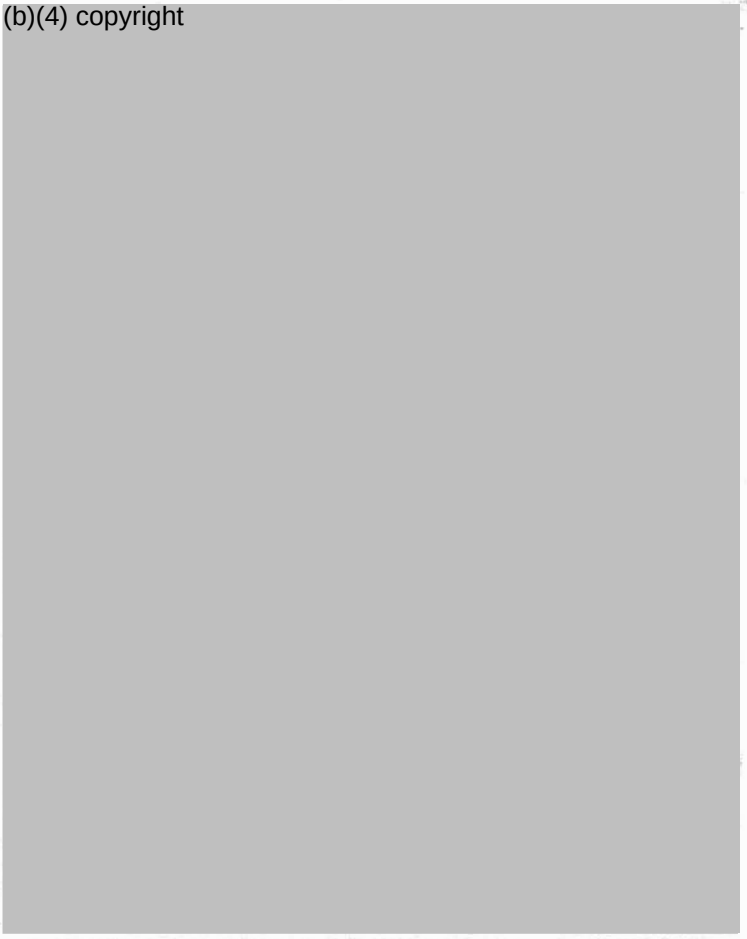

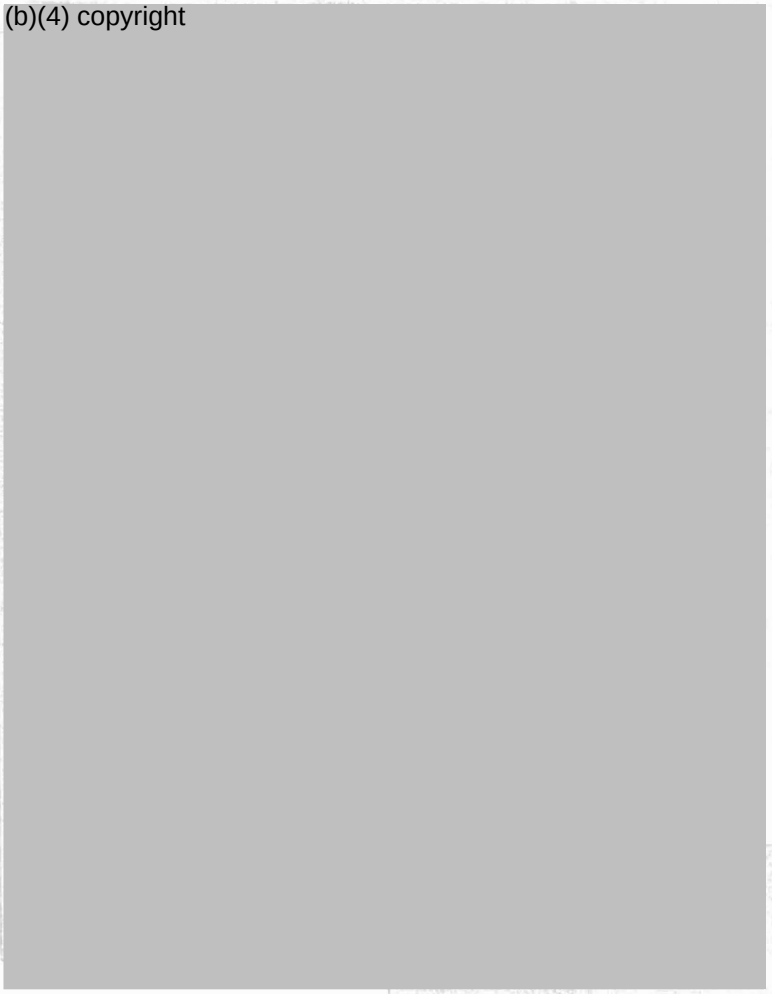

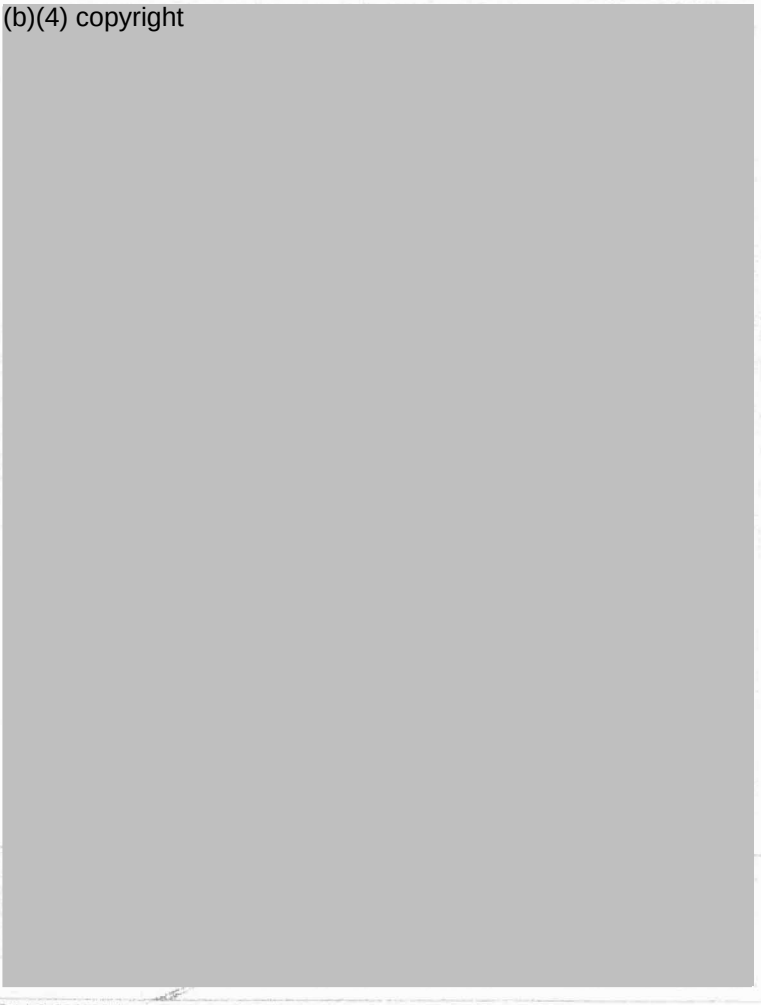

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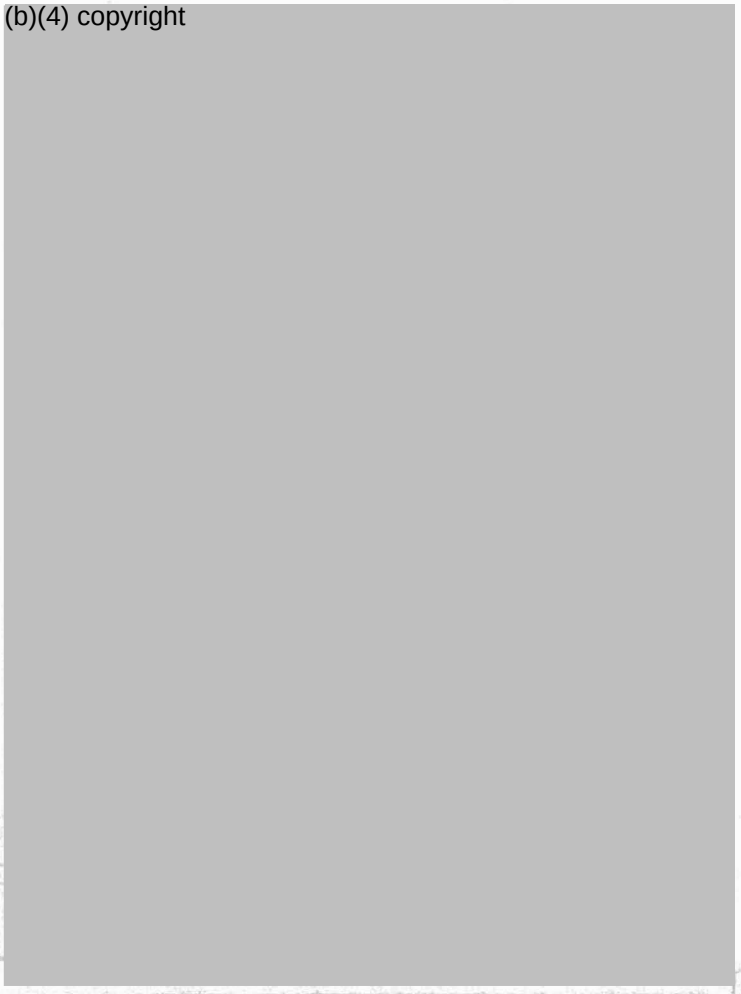

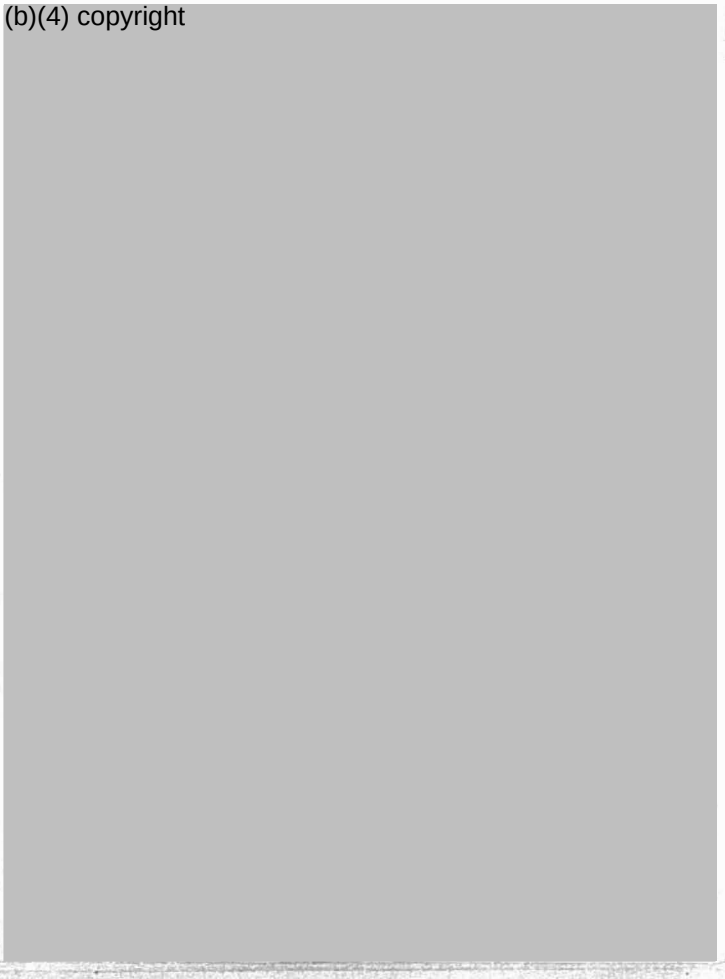

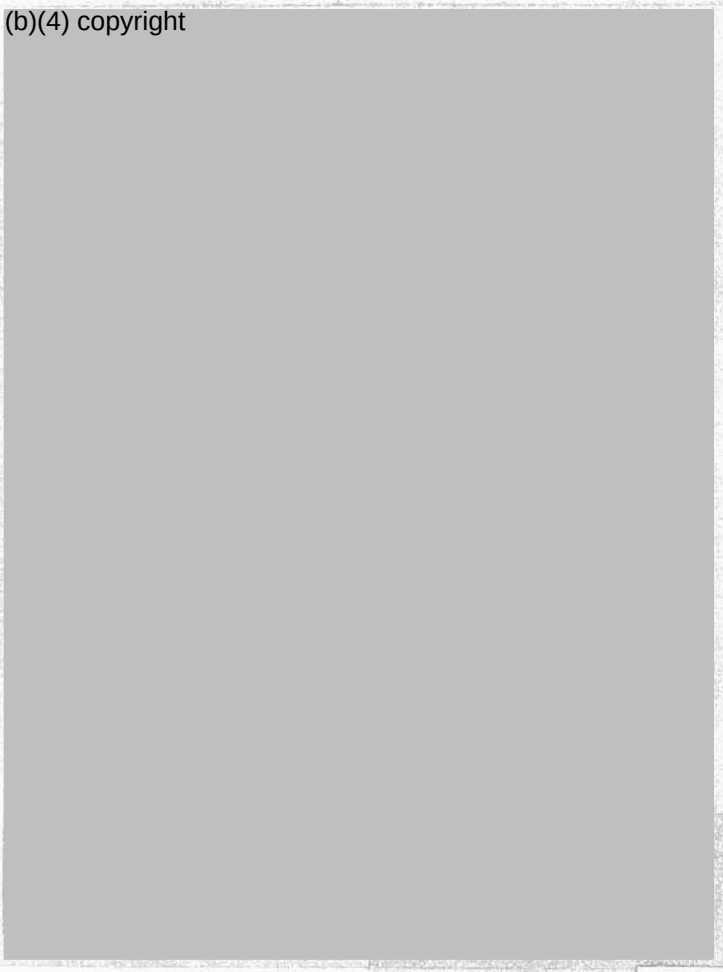

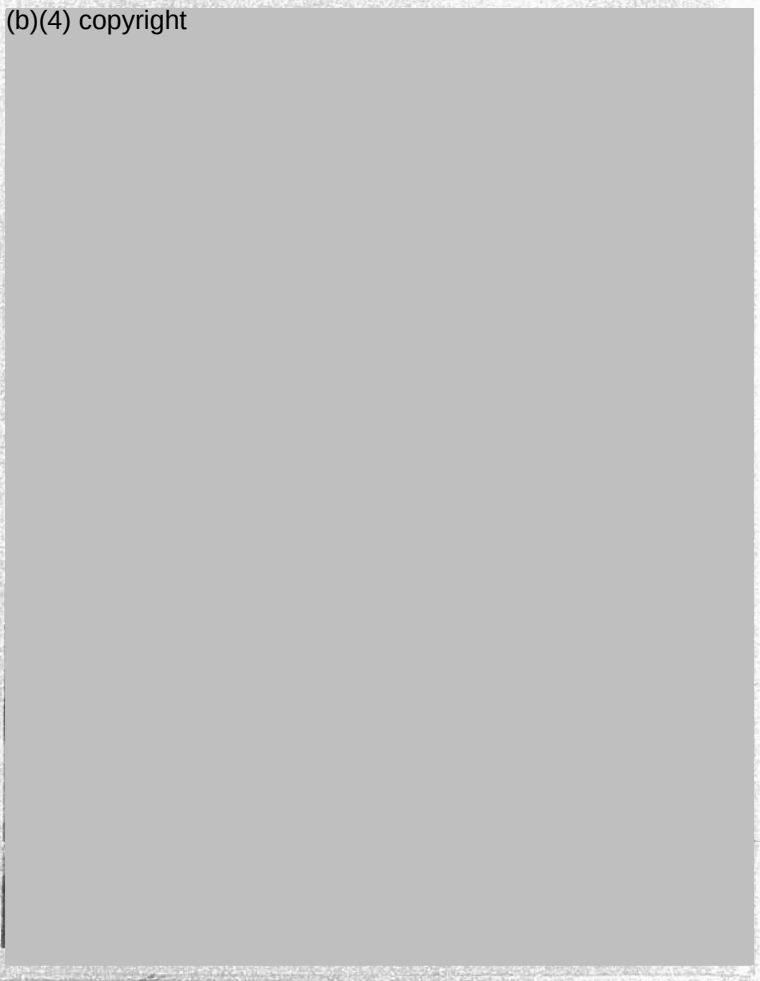

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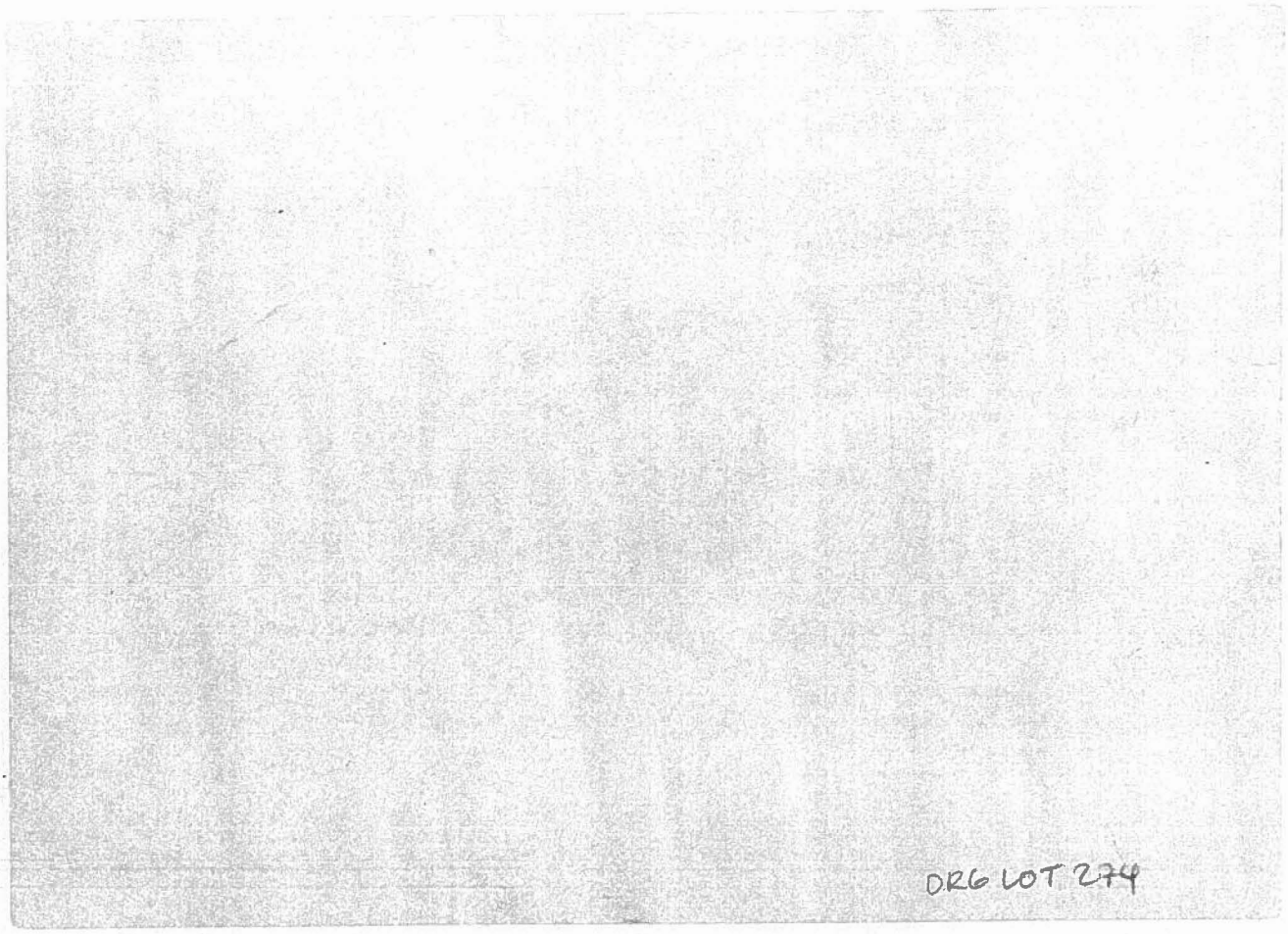

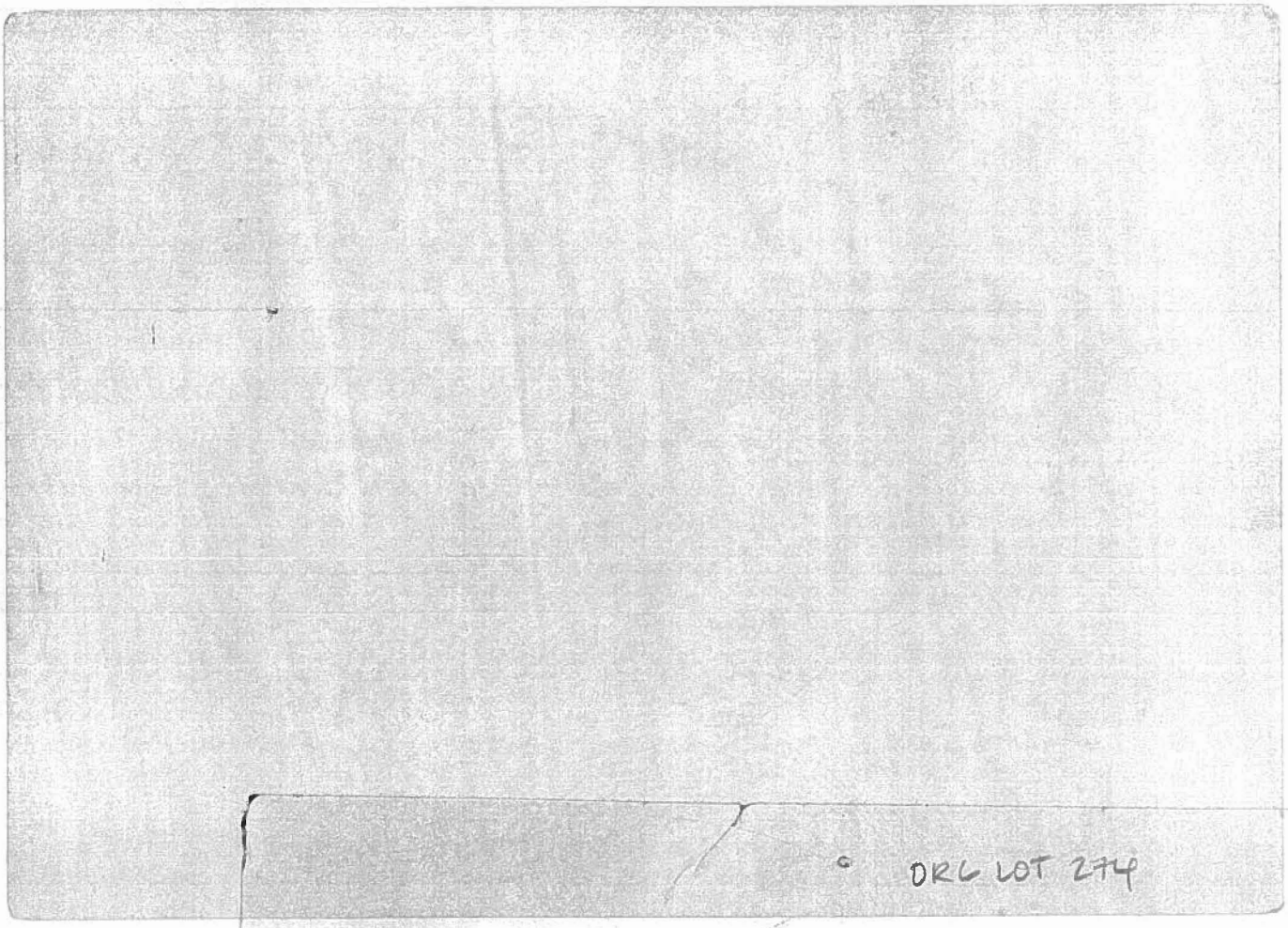

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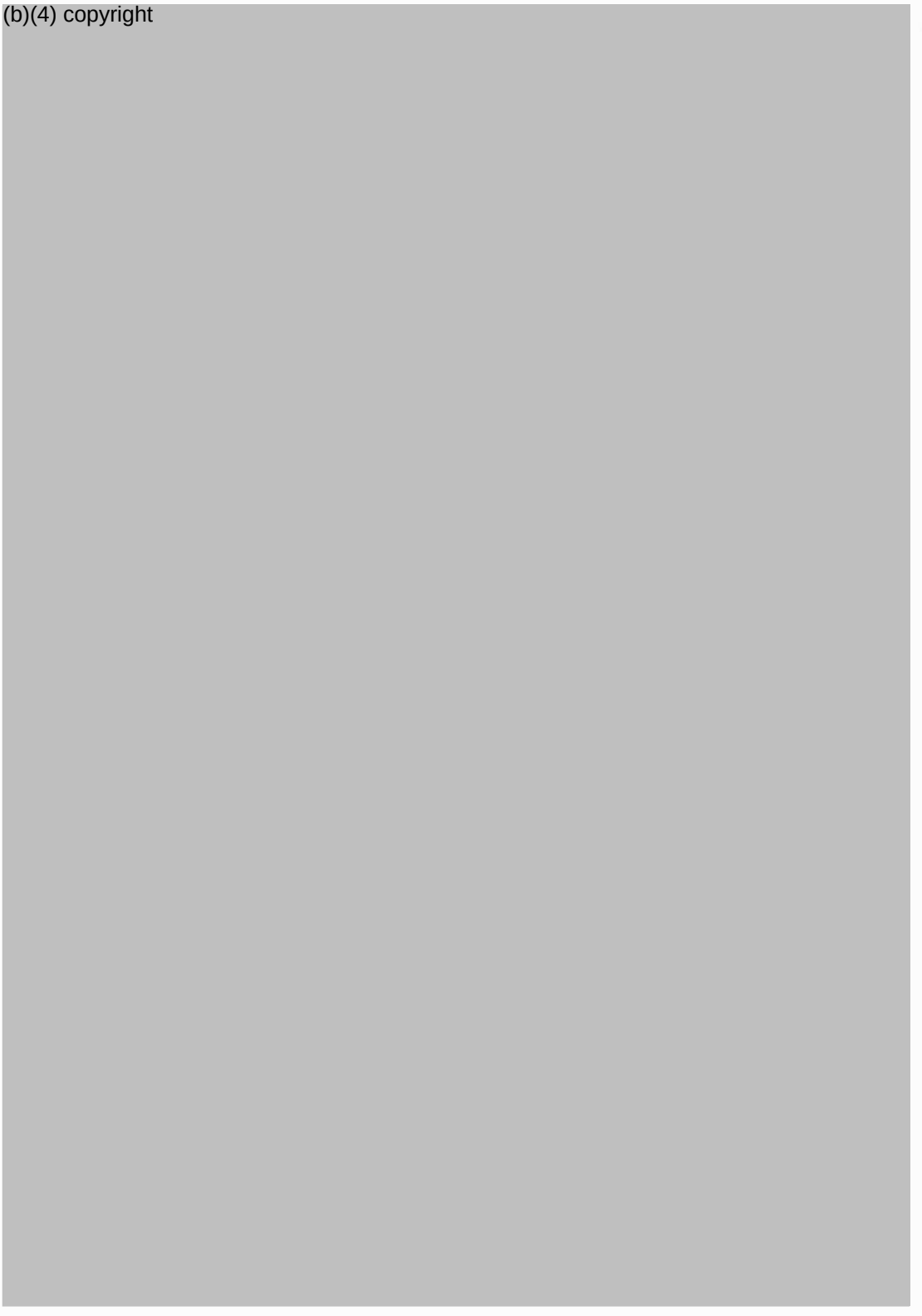

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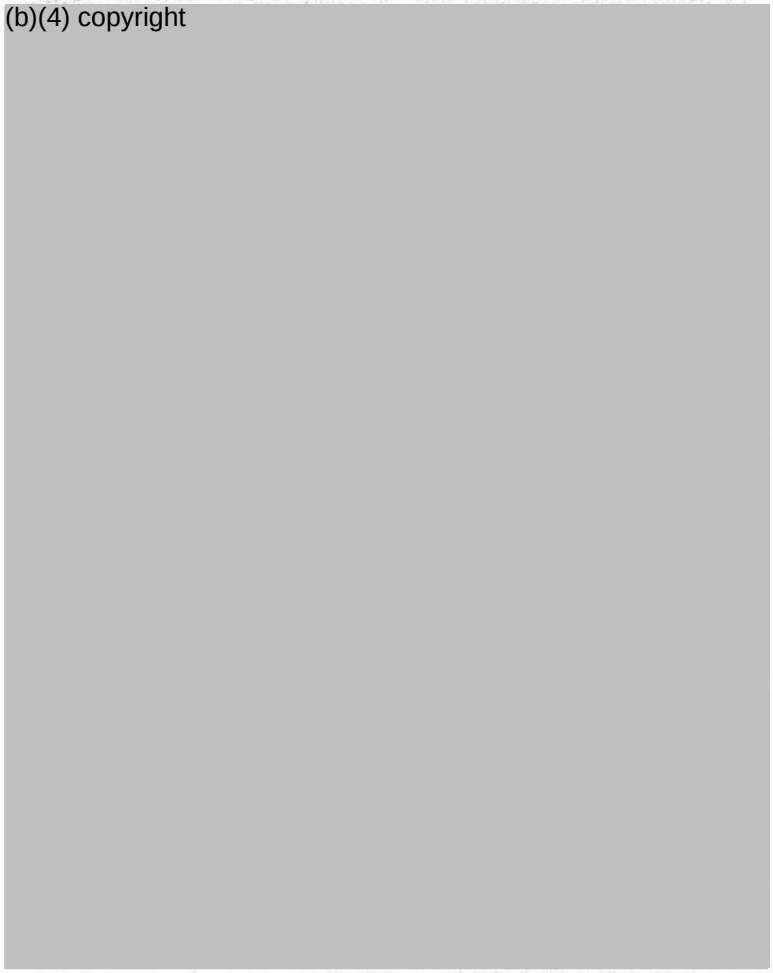

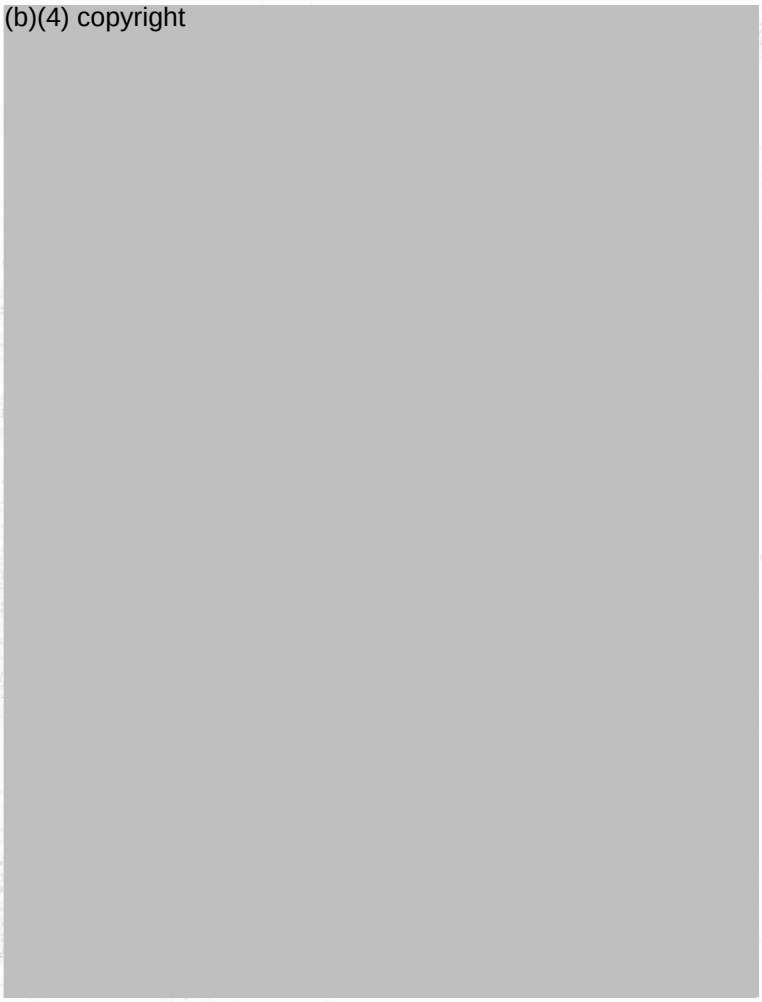

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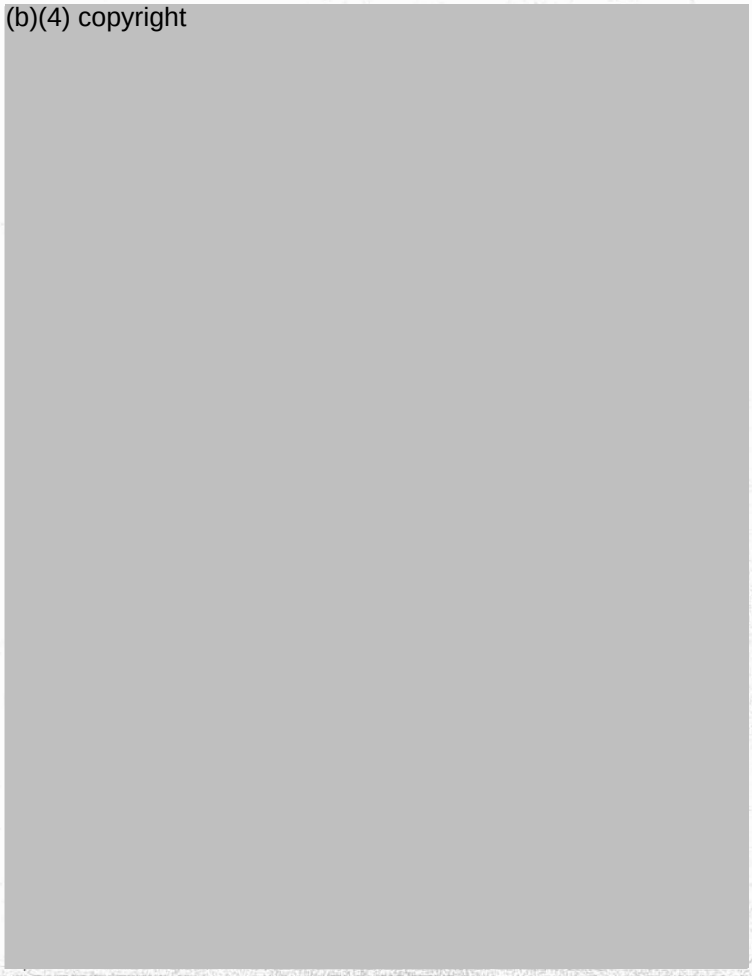

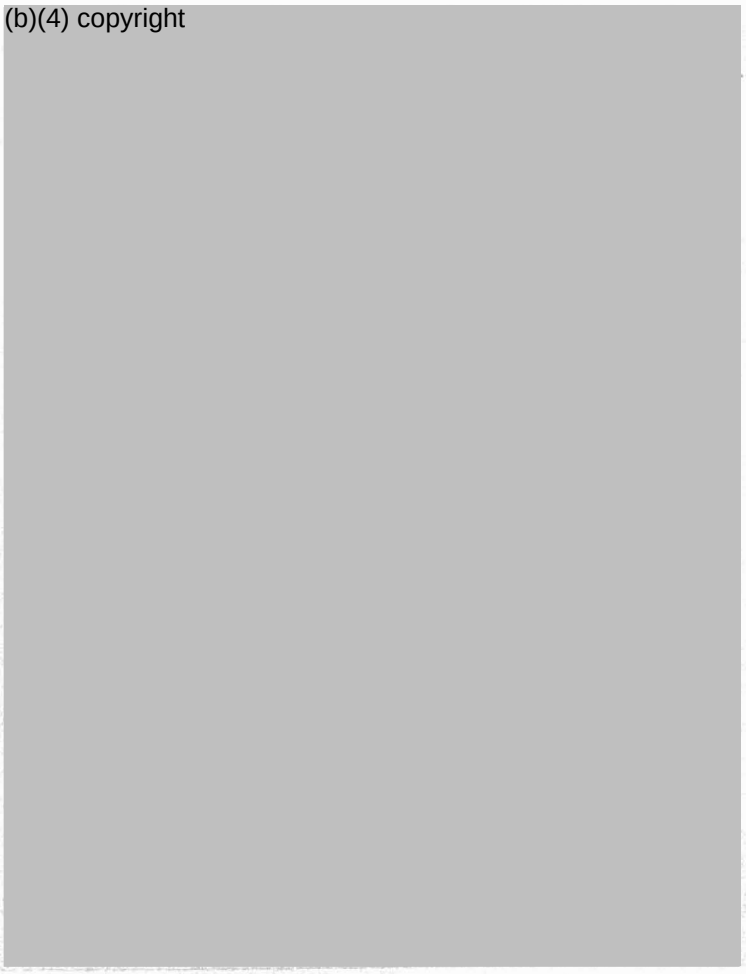

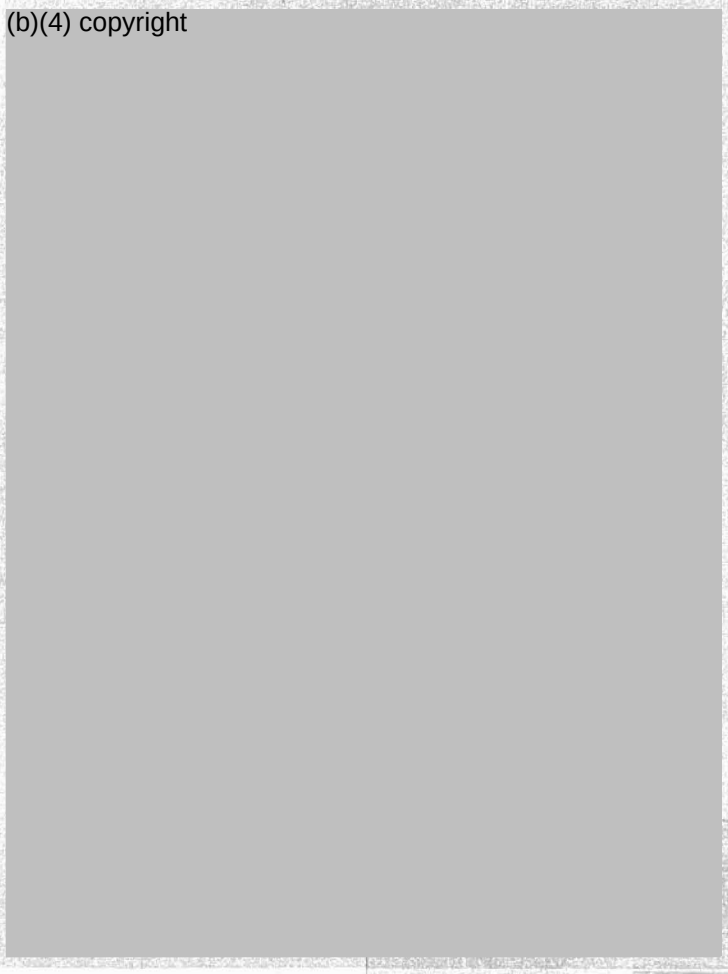

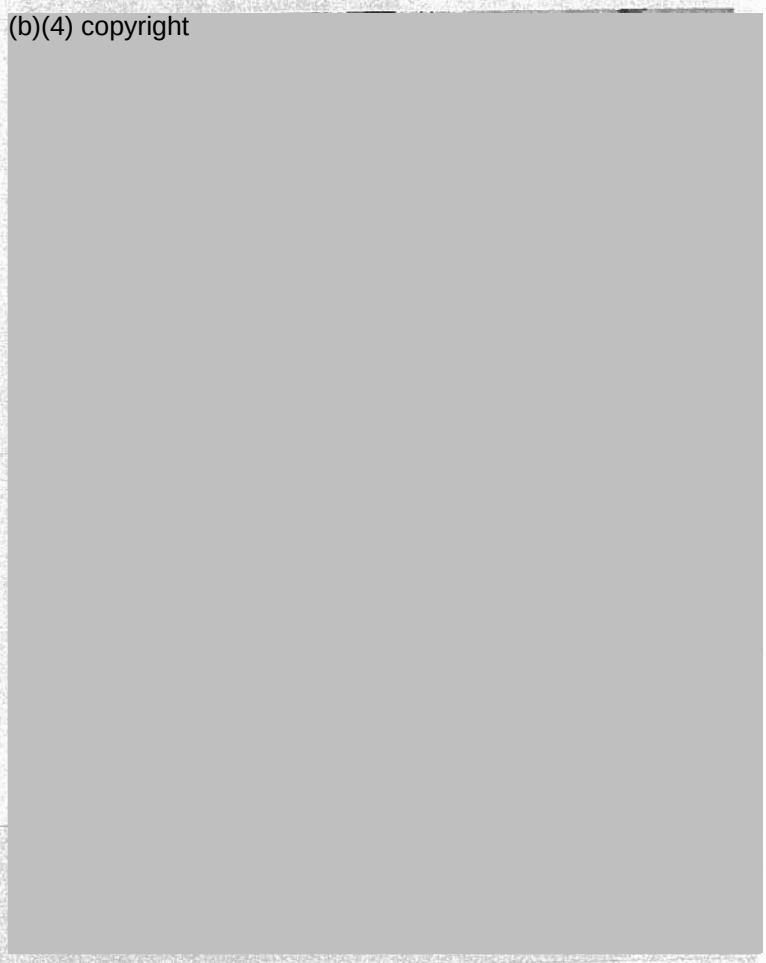

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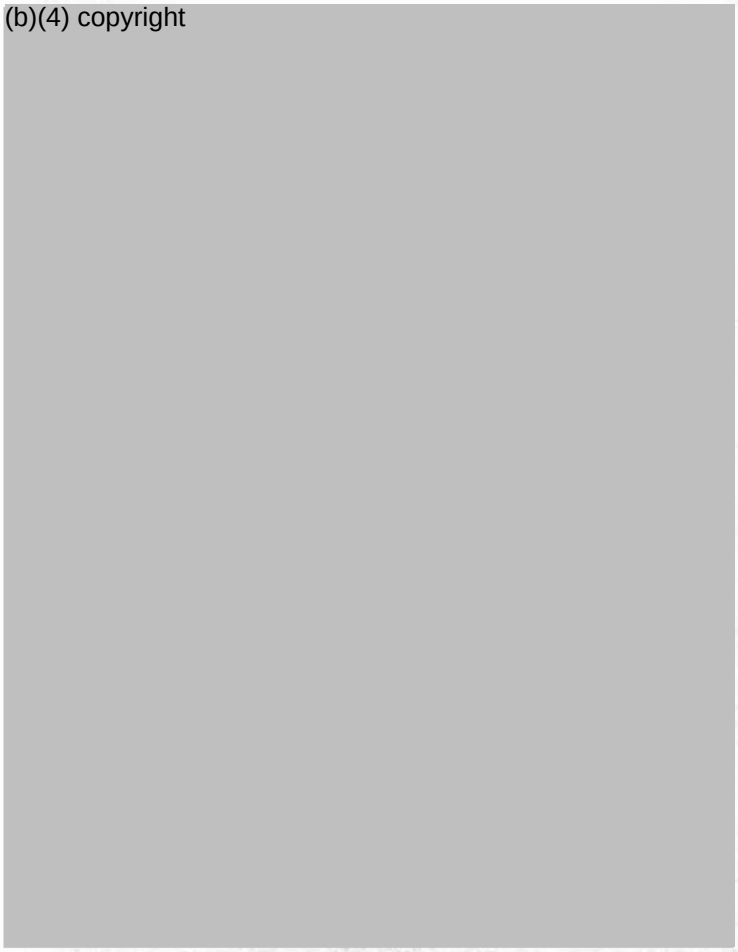

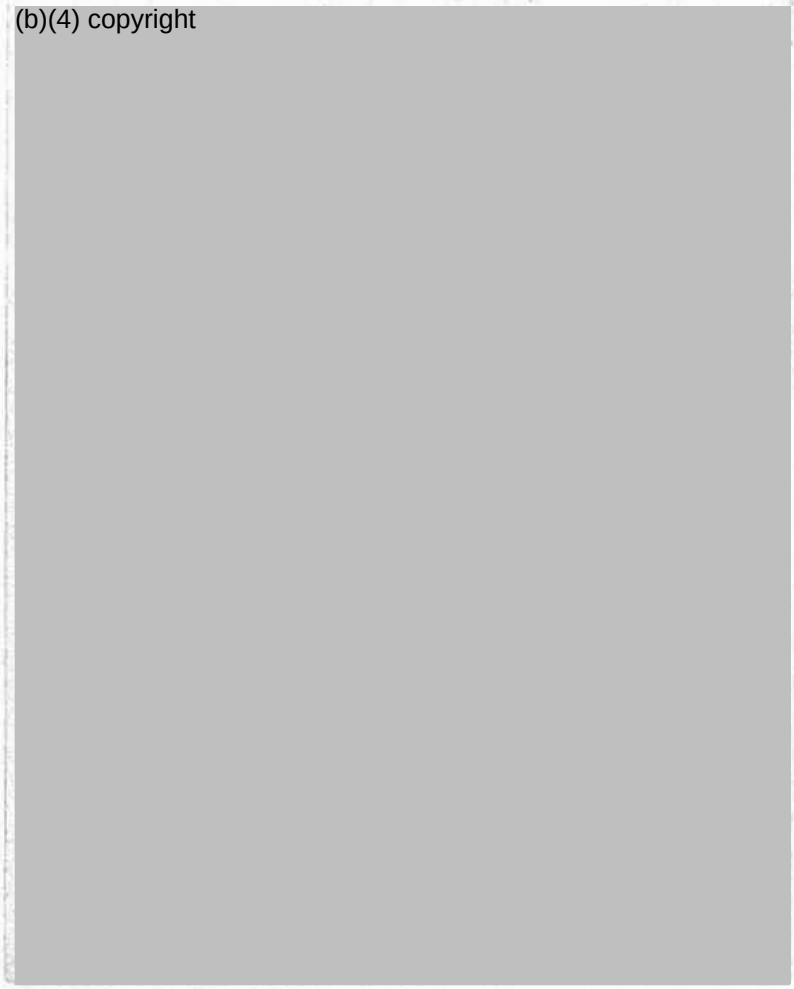

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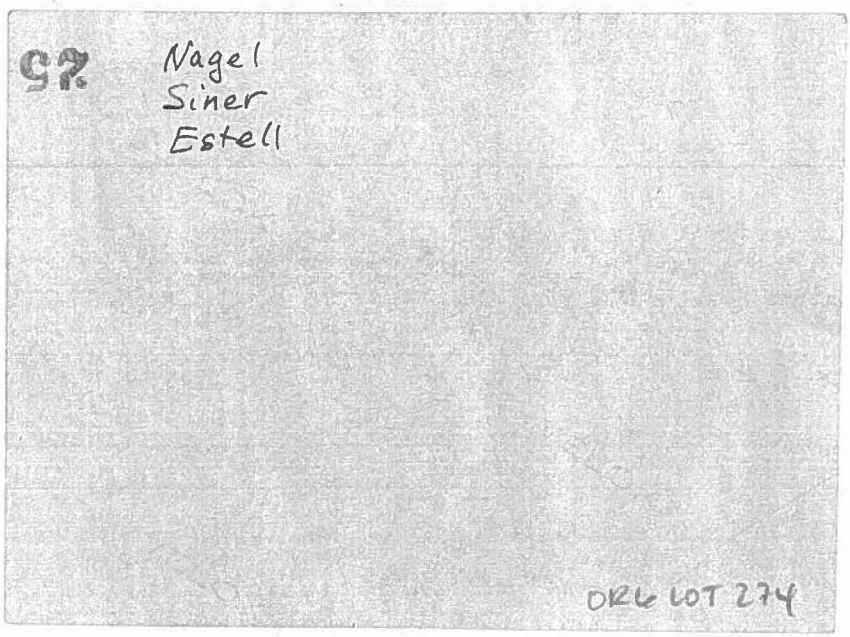

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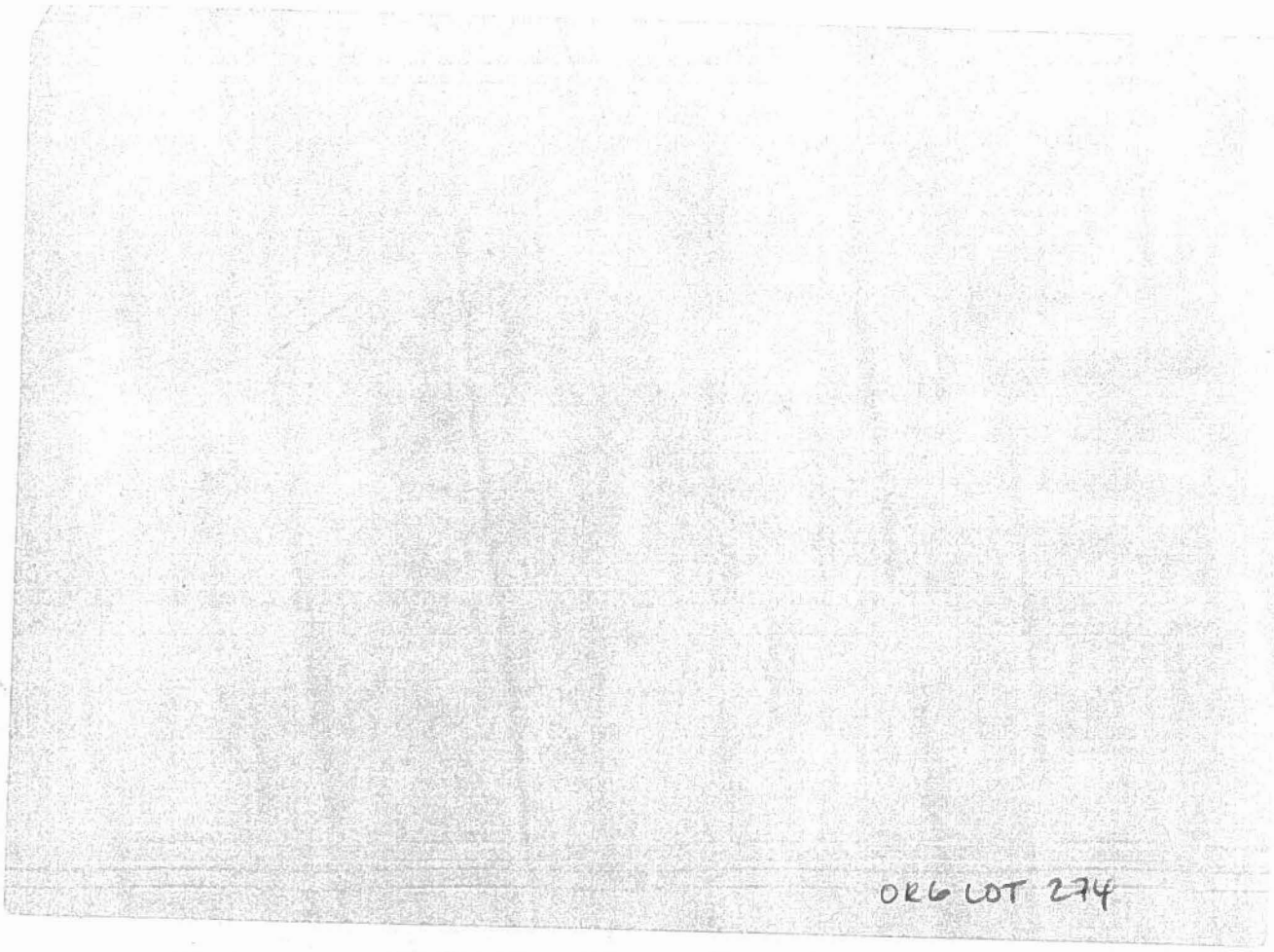

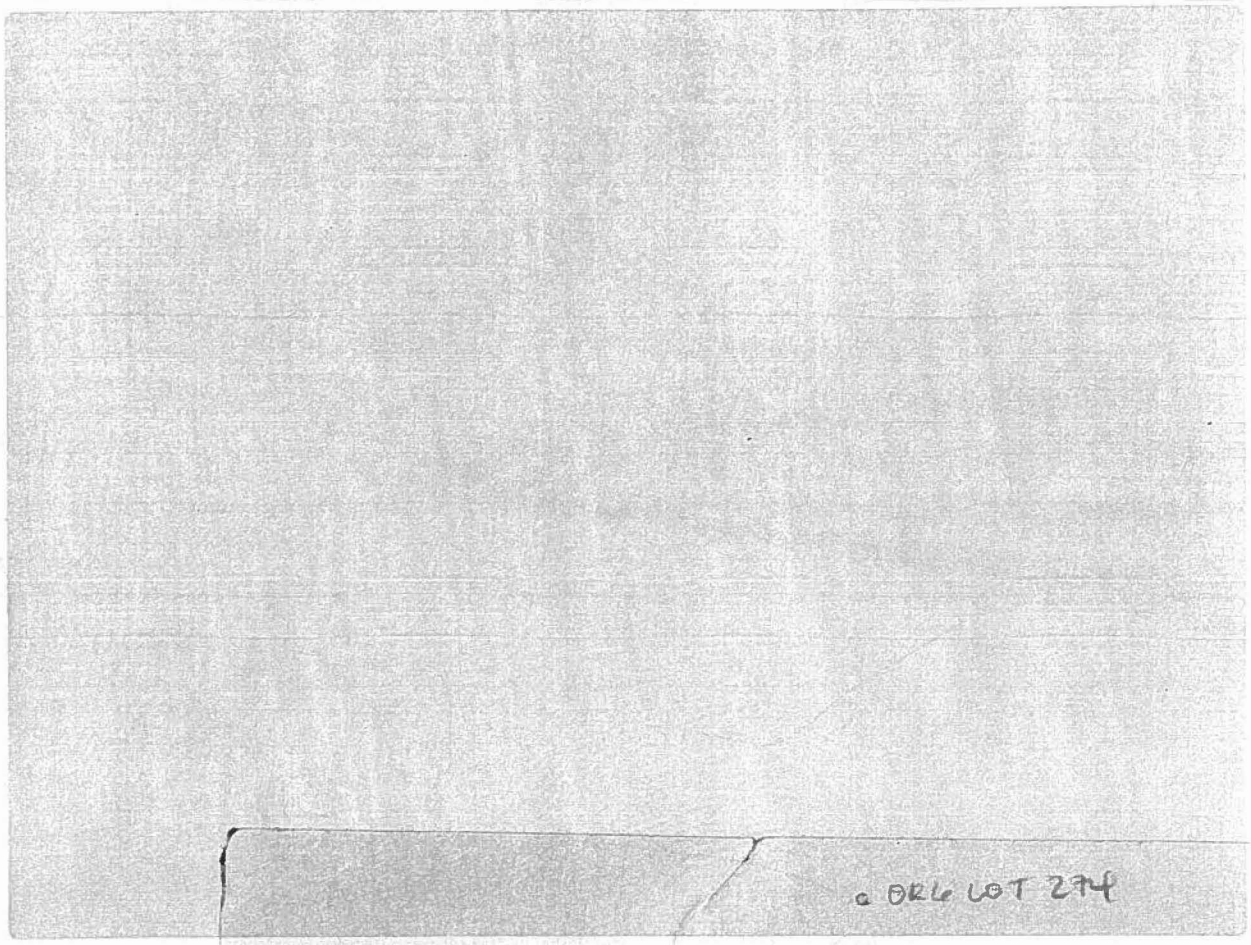

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PORTLAND GENERAL ELECTRIC COMPANY CABLE

3/C, 500,000 CM (61x. 0905") Okoloy, Semicon, 24/64" Okonite (30% Para Rubber), Tape, Paper Tape, .005" Tinned Copper Tape, cabled, Tape, 9/64" Lead, #4 Armor, Jute, Submarine Cable.

1 1860 ft. length on submarine reel

1 2140 ft. length on submarine reel

This order was dated March 23, 1950, and shipped from the factory August 9, 1950. The cable was laid on August 30, 1950.

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PORTLAND GENERAL ELECTRIC COMPANY ORDER NO. 27925

3/C 500,000 CM, 13 KV, Okonite Submarine Cable,

furnished in two lengths: 1860 ft. and 2140 ft.

Core diameter under lead sheath - 3.65".

Overall diameter - 5.00"

Weight - 31 lbs. per foot.

Tested at 93,000 volts DC during fabrication and

74,000 volts DC after armoring, each test 15 minutes.

Picture #1

Showing steel reel and accessories ready for lifting from flat car to transfer to the steel barge.
Reel Size - 96"x 60"x 204"
Value of 2 reels and accessories - $13,984.00

Picture #2

Willamette Tug and Barge Co. crane ready for the lift.
Approximate weight of cable and reel - 50 tons.

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Picture #3

Lowering the first reel to the deck of the steel barge. J. C. Volpe, Underground Supt., directing operations.

Picture #4

Lowering the second reel to the barge.

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Picture #5

Positioning the second reel.

Picture #6

Ready to remove 50-ton lift beam.

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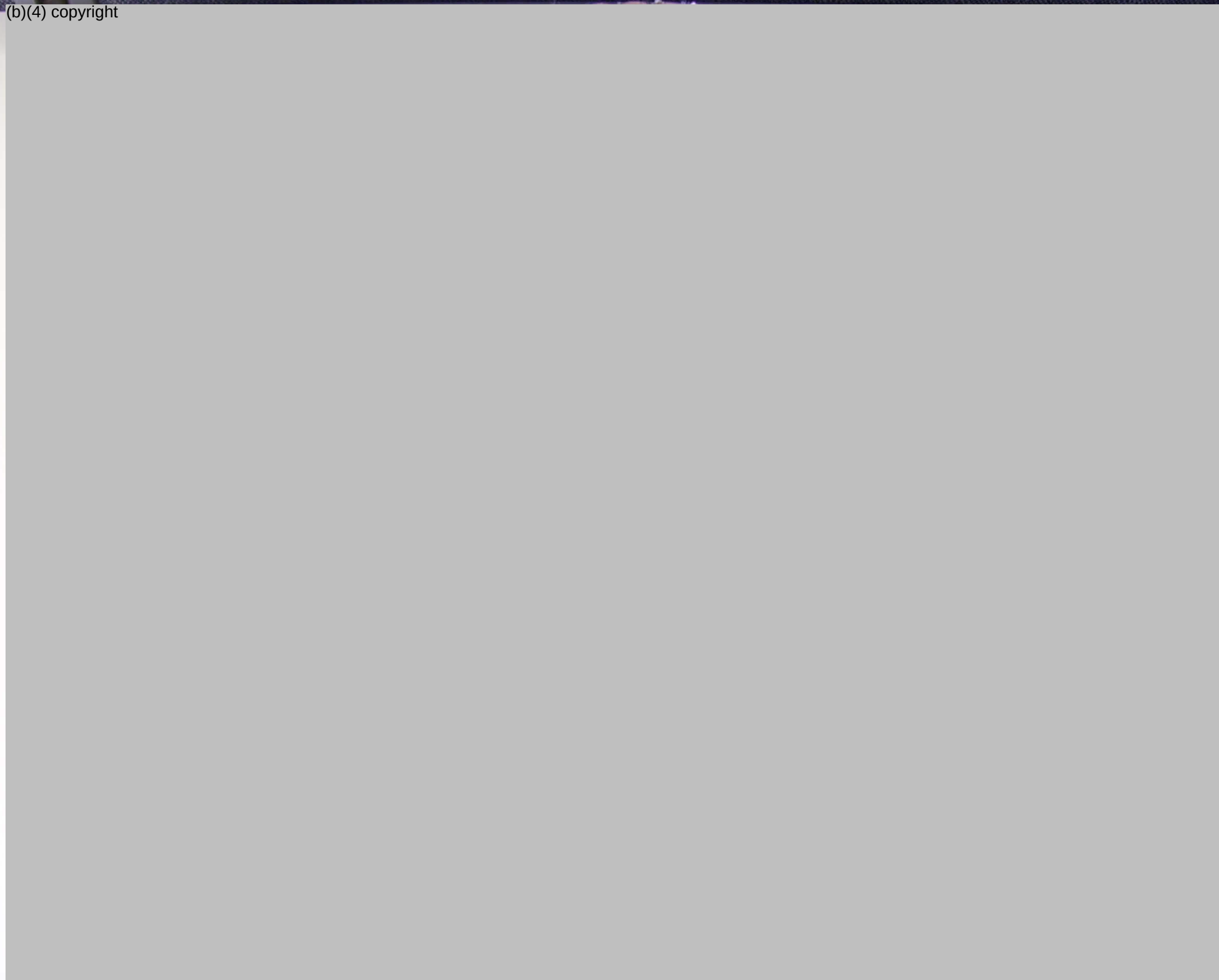
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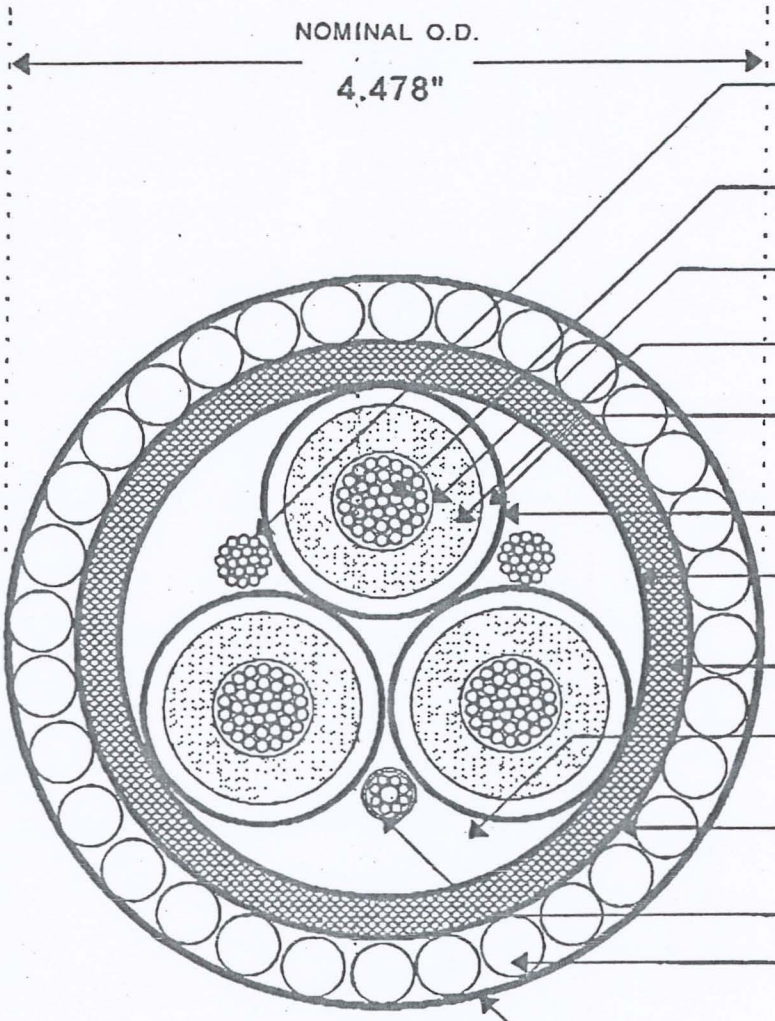


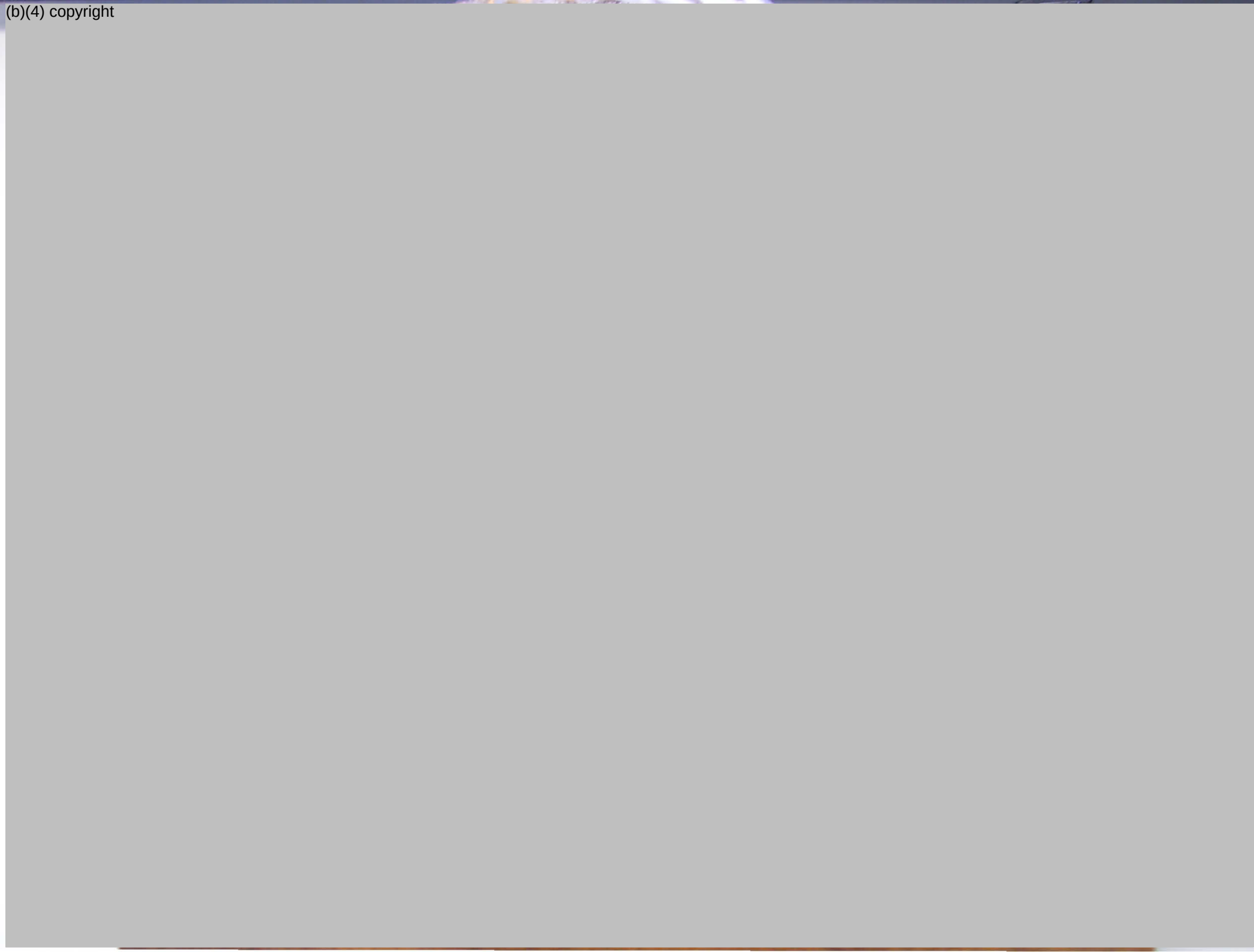
CABLE WGT 19.2 LBS/FT

PORTLAND GE

OKO F O # 02-6849

3/C 500 KCMIL OKOGUARD SHLD CONDUCTORS WITH 2-#4/0 BC GRDS & 1 - SINGLE MODE FIBER OPTIC CABLE, OKOLENE JACKETED SUBMARINE CABLE

THE OKONITE COMPANY RAMSEY, N.J. USA	DATE:10/03/96	SCALE: NTS	REVISIONS
	DR. AFA TR. CH. APP.		DRAWING NUMBER CS-7725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SUBMARINE CABLE News

OKONITE • SIMPLEX • CALDWELL

JULY, 1997

Portland General Electric - Williamette River Project

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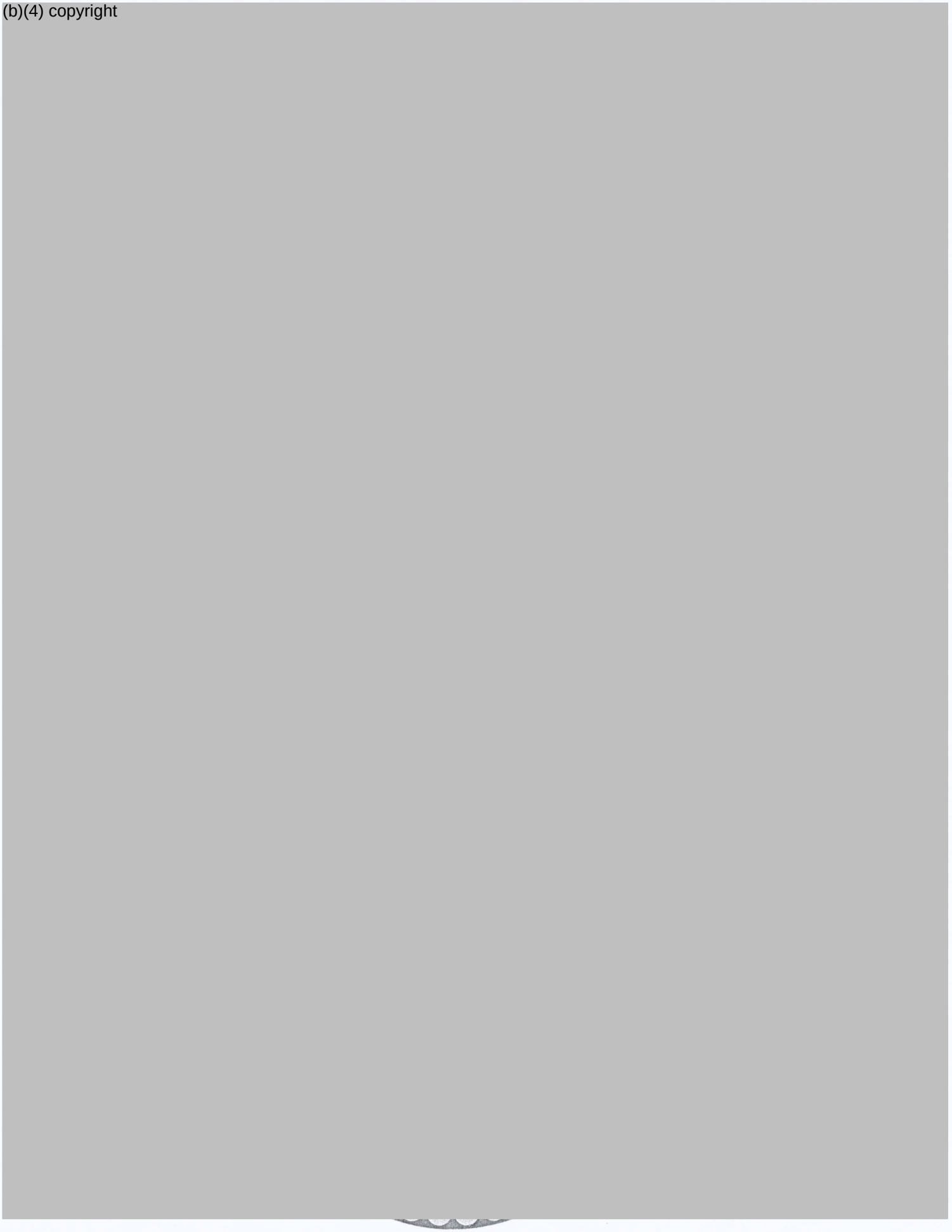

Cross section drawing of the cable supplied to Portland General Electric. This cable has an overall diameter of 4.47" and weighs 19 lbs/ft

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PGE Replaces Underwater Cables Across the Willamette

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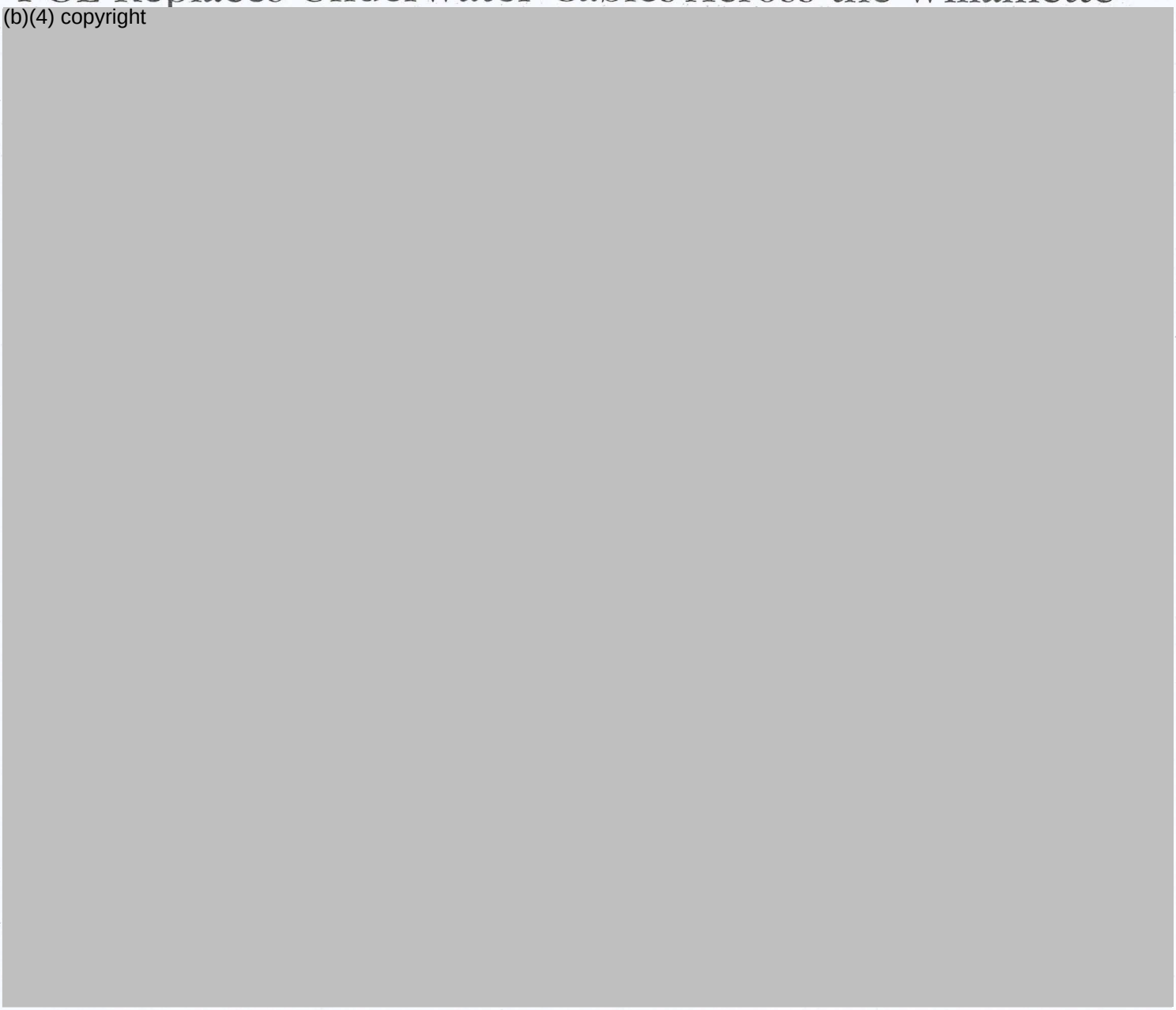

PGC Employee Handbook a Real Page Turner

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