

PRESSURE RELIEF DEVICES

H-70

Department: Gas System Technical Support Section: Gas Systems Standards Management

Approved by: D. W. Anderson Approved by: S. Y. Chwistek Date: 06-04-98

Rev. #00: This document replaces PG&E Drawing 088036. For a description of the changes, see Page 3.

Purpose and Scope:

This standard provides basic design requirements, and sets inspection and testing requirements for gas pressure relief devices used for natural gas service at compressor, pressure limiting, and regulator stations. This standard does not cover rupture disks.

Design Requirements

- 1. Relief valves should not be used unless it has been determined that monitor valves are impractical.
- 2. A pressure relief device shall have the capacity, and shall be set, to limit the pressure in a system to the appropriate maximum pressure shown below, under any possible operating conditions.
 - A. In a low pressure distribution system, the pressure may not exceed 14" water column (WC).
 - B. In pipelines other than a low pressure distribution system:
 - If the maximum allowable operating pressure is 60 psig or more, the pressure may not exceed the
 maximum allowable operating pressure plus 10 percent, or the pressure that produces a hoop stress of 75
 percent of SMYS, whichever is lower;
 - 2. If the maximum allowable operating pressure is 12 psig or more, but less than 60 psig, the pressure may not exceed the maximum allowable operating pressure plus 6 psig; or
 - 3. If the maximum allowable operating pressure is less than 12 psig, the pressure may not exceed the maximum allowable operating pressure plus 50 percent.
- 3. The pressure at which the relief valve is set to open will depend on its operating characteristics, including the pressure build up above the set pressure necessary to achieve full capacity, and the pressure at which the system is to be operated under normal conditions. However, the setting shall **not** be higher than a level which would permit the pressure to reach or exceed the pressures specified in Paragraph 2., taking into account the pressure build up required for the valve to reach full capacity.
- 4. The relief valve or other overpressure protection should be set just sufficiently above the maximum operating pressure (MOP) of the system being protected to permit the system to be operated at the MOP without causing the relief valve to leak or vent gas. This pressure shall be determined considering the operating characteristics and operating tolerances of the valve being used. It shall **not** be any higher than necessary to accomplish this, and **under no condition** shall it be set so high that it will permit the pressure in the piping to exceed that specified in Paragraph 2.
- 5. When more than one pressure regulating or compressor station feeds into a pipeline, relief valves or other protective devices shall be installed at each station to ensure that a failure of the supply devices will not impose pressure on any part of the downstream pipeline system in excess of the pressure permitted by Paragraph 2.
 - A. At stations built or rebuilt after July 3, 1972, pressure relief devices shall have sufficient capacity to relieve a failure of all parallel supply devices in the final stage of pressure regulation. That capacity is **not** to be based on the simultaneous failure of all supply devices in all stages of regulation.
 - B. At stations built before July 3, 1972 and not rebuilt since then, pressure relief devices shall comply with the minimum requirement of the latest edition of 49CFR 192; the relief devices shall have sufficient capacity to relieve a failure of the supply device with the largest capacity.
 - 1. If the capacity of the supply devices has changed, the pressure relief devices shall have sufficient capacity to meet the requirements of Paragraph 5.A.

Rev. #00: 06-04-98 **H-70** Page 1 of 3

Pressure Relief Devices

- 2. If the pressure relief devices are being replaced due to wear, the capacity of pressure relief devices being replaced may remain unchanged. However, increasing the capacity of the relief devices to comply with Paragraph 5.A. should be considered when relief devices with increased capacity can be installed with only minor piping changes.
- 6. The discharge piping of pressure relief valves shall be designed to prevent an accumulation of water, ice, or snow and to discharge gas to non-hazardous locations. To prevent injury to personnel, the vent exhaust shall be located at or above 8 feet from ground level.

Sizing of Relief Valves

- 7. The relief valve must have adequate capacity, and must have operating characteristics, to prevent the pressure from exceeding the limits specified in Paragraph 2. (above), taking into account the set pressure, the operating tolerance of the valve, and the pressure buildup required to achieve full capacity.
- 8. The capacity of the relief valve should be based on the highest anticipated supply pressure in the line feeding the regulator. This may be the MOP rather than the maximum allowable operating pressure (MAOP) of the line. However, there must be adequate assurance that the supply pressure will not increase above that for which the relief valve is sized. If it is necessary to increase the MOP of the system supplying the regulator(s), the capacity of all relief valves protecting it must first be checked to verify that there is adequate relief capacity for the new conditions. Where the relief capacity is not adequate, additional capacity must be provided before the MOP is increased.
- 9. The minimum demand on a system may be considered when sizing the relief valve, provided there is assurance that this minimum demand will always be present.
- 10. The manufacturer's capacity rating may be used to determine the adequacy of the relief valve (subject to precautions outlined in Paragraph 12.). Before using the manufacturer's capacity rating, verify with System Standards Management of GSTS or Engineering & Planning of DCS that the latest available information is being used.
- 11. When selecting and sizing a relief valve, consideration must be given to the following characteristics:
 - A. The pressure buildup above the point the valve first opens which is necessary to obtain full capacity. This must be compared to the maximum pressure permitted by Paragraph 2.
 - B. The repeatability of operation. How closely the relief valve can be set to the MOP of the downstream piping system without operating or leaking gas unintentionally.
 - C. The pressure to which the system must drop before the relief valve will close after it operates.
 - D. The potential hammering or excessive vibration effects. The relief valve should be sized small enough to prevent hammering or excessive vibration.
- 12. The regulator capacity against which the relief valve must protect is the **failed wide open** capacity. This can be calculated using the valve coefficient (Cv) for a wide open valve. The tabulated capacity for the regulator shown in the Gas Standards and Specifications or the manufacturer's literature should not be used unless it is known to be the **wide open** capacity.
- 13. Piping between the system being protected and the relief valve must be sized so that it will not restrict the capacity of the relief valve.
- 14. Any valve between the system being protected and the relief valve must be locked open to prevent any unauthorized operation that would isolate the relief valve from the piping being protected.
- 15. The vent stack represents a restriction against which the relief valve must discharge. The pressure drop in the vent stack must be considered when sizing the relief valve and the vent stack piping.

Inspection and Testing of Pressure Relief Devices

- 16. All pressure relief devices shall be inspected, tested, and the capacity reviewed at intervals not exceeding 15 months, but at least once each calendar year as required by DOT 49 CFR Part192, Paragraphs 192.739 and 192.743.
- 17. The relief devices shall be **inspected** and **tested** to determine that they are:
 - A. In good operating condition;
 - B. Set to function at the correct pressure (Note: the setpoint must be verified by physically testing that the relief valve begins to operate at the proper pressure setting); and

H-70 Page 2 of 3 Rev. #00: 06-04-98

Pressure Relief Devices

- C. Properly installed and protected from dirt, liquids, and other conditions that might prevent proper operations.
- 18. Verify that the relief valve has sufficient **capacity** to limit pressure to the level required by Paragraph 2. by the following:
 - A. Making an office review and calculation, to verify that under operating conditions the relief valve has the proper setting and capacity to limit pressure to the required level; or
 - B. Physically testing relief valve(s) in place to verify that the relief valve(s) has sufficient capacity to limit pressure to the required level.
- 19. The capacity shall be considered satisfactory if the maximum downstream system pressure will not exceed the maximum pressure specified in Paragraph 2. If the capacity at the maximum system pressure is not adequate, immediate steps shall be taken to provide adequate capacity.
- 20. The capacity of the relief devices at **pressure limiting and regulating stations** shall be recorded using the form, "Capacity Review of Relief Devices at Pressure Limiting & Regulator Stations", Exhibit 1. The capacity of the relief devices protecting against overpressure due to **gas compression** shall be recorded using the form, "Capacity Review of Relief Devices at Compressor Stations", Exhibit 2. Both forms are available from the System Standards Management Section of Gas System Technical Support.
- 21. In addition to annual capacity testing, the capacity of relief devices shall be verified immediately when changes are made which could affect the ability of the relief valve to protect the system.

Responsibility

22. The DCS Area Managers, the Manager of Gas System Maintenance, or their designated representatives are responsible for performing the inspection, testing, operation and maintenance of the subject facilities, within their assigned areas of responsibility.

References:	Document
49 CFR Part 192, Pipeline Safety Regulations, Natural Gas.	Section 192.199
49 CFR Part 192, Pipeline Safety Regulations, Natural Gas.	Section 192.201
49 CFR Part 192, Pipeline Safety Regulations, Natural Gas.	Section 192.731
49 CFR Part 192, Pipeline Safety Regulations, Natural Gas.	Section 192.739
49 CFR Part 192, Pipeline Safety Regulations, Natural Gas.	Section 192.743
CGT Standard, Gas Pressure Relief Devices – Responsibility for Capacity Verification	on S-4433
DCS Standard, District Regulator Station Maintenance	D-S031
DCS/CGT Standard, <i>Standard, Maximum Allowable</i>	
Operating Pressures, Requirements for Transmission	
Lines and Distribution Mains & Services.	D-S0430/S4125

Revision Notes:

Revision 00 has the following changes:

- 1. To make the forms user friendly, the capacity review forms have been divided into two forms. One form is for "Pressure Limiting and Regulator Stations" and other form is for "Gas Compression."
- 2. Converted PG&E Drawing 088036 to Interleaf Gas Standard H-70.
- 3. Rearranged contents; completely revised text, table and graphics numbering streams.
- 4. Reset Revision number stream to zero.
- 5. This document is part of Change 43.

Rev. #00: 06-04-98 **H-70** Page 3 of 3

Capacity Review of Relief Devices at Pressure Limiting and Regulating Stations as Required by Paragraphs 192.739 (b) and 192.743 of 49CFR192 (Refer to Gas Standard H–70)

Station Name. Area.	Di	Suici.						
Line or system supplied by facility (see Note #1 below)		Anniversa	nry month	(see No	te #2 be	elow)		
PART I — To Be Completed Annually								
This capacity check is for the Year								
#1 Was capacity reviewed for previous year?	YES							
If NO, complete Part II of Annual Capacity Review for PLS & Reg stations.	NO							
#2 Did previous review show that relief valve(s) had adequate capacity?	YES							
If NO, complete Part II of Annual Capacity Review for PLS & Reg stations.	NO							
#3 Have there been any changes to the equipment at this station, pressure conditions	YES							
(either inlet or outlet), load conditions, or supply conditions which could affect	NO							
the ability of the relief valve(s) to limit the pressure to the maximum								
permitted by paragraphs 192.169 and 192.201 of 49CFR192?								
*If the answer is YES, complete Part II of Annual Capacity Review for PLS & Reg Stns.								
**If answers to Item #1 and #2 were YES and Item #3 was NO, check YES on Item #4.								
#4 Relief valve(s) at this station have adequate capacity. If NO, complete	YES							
Part III of Annual Capacity Review for PLS & Reg stations.	NO							
VERIFIED BY (Place initials in the appropriate box)								
DATE (Put date verified in the appropriate box)								
Dill (1 at date verified in the appropriate box)								
APPROVED BY (Place initials in the appropriate box)								
DATE (Put date approved in the appropriate box)								

NOTES:

- 1. If there are regulating and overpressure facilities at the station supplying more than one line or system, a separate review must be performed for the overpressure protection devices for each line or system.
- 2. All pressure relief devices shall be inspected, tested, and the capacity reviewed at intervals not exceeding 15 months, but at least once each calendar year. Furthermore, in addition to the annual capacity testing, the capacity of the relief devices shall be verified immediately when changes are made which could affect the ability of the relief device to protect the connected systems.
- 3. The Verified By box is usually initialed by a Technician or an M&C mechanic. The Approved By box is usually initialed by a Foreman or Operating Supervisor.

RETAIN THIS DOCUMENT AS A PERMANENT RECORD FOR THE LIFE OF THE FACILITY.

Capacity Review Of Relief Devices At Pressure Limiting and Regulating Stations as Required by Paragraphs 192.739 (b) and 192.743 of 49CFR192 (Refer to Gas Standard H–70)

Statior	n Name:					Date:	
Line o	r System Capacity 1	Supp Revie	olied by Facility (see note w is for the Year				
l.	-		apacity review was requ — Capacity review was	iired because:			
	b		— The previous capacity	review showed	d that relief	device capacity was ina	dequate.
	C.		 Changes have been m conditions, or supply limit the pressure to the 	conditions whic	ch could affe	ect the ability of the reli	
2.			ssure Conditions num upstream pressure (1	MAOP, or MOP	if lower).		psig
	P2 – I	MAOl	P or MOP downstream of	station.			psig
	P3 – I	Maxin	num permissible downstr	eam pressure (s	ee Par. 192.		psig
. R	degulator	r(s) Sı	upplying Line or Systen	n Described Ab	oove		
			Regulating Val			Wide Open Capacity	Indicate Catalog Reference or Gas Standard
	No.	Size	Model	Inner Valve Size	Field Verified	(P1 in, P2 out)	for Capacity (Attach calculation sheet)
·.			or(s) installed in series _ Supply Capability			; parallel	
	a.		otal Capacity of all regul	ators if installed	l in parallel.		scfh
			otal capacity of series regressure drops adjusted to				scfh
	b.		Maximum capacity througonditions other than regu				scfh
		S	tate limiting conditions:				

RETAIN THIS DOCUMENT AS A PERMANENT RECORD FOR THE LIFE OF THE FACILITY.

Capacity Review Of Relief Devices At Pressure Limiting and Regulating Stations as Required by Paragraphs 192.739 (b) and 192.743 of 49CFR192 (Refer to Gas Standard H–70)

	me:					Date:	
Mini	mum Dow	nstream Load					
		oad supplied from		em being re	eviewed		_ scfh
Note		t can be established by operating cond					
Desc	ribe load i	f present:					
		Required					cri.
	r either #4 #5 above	a or #4b above, w	hichever is low	er			
LCSS		num Relief Capa	ncity Required				ca.
Dalia		Protecting Line		aribad aba			Sciii
a.	i Device(s	rrotecting Line	of System Des	scribed abo	Jve		
		Re	lief Valve			Maximum	Capacity
No.	Size	Model	Inner Valve Size	Field Verified	Pressure Setting	Capacity @ P3 (See note 2)	Reference
	-	city restrictions fi		_			scf
:	Relief capa	acity available. T	otal of 7(a), less	s total of 7(b)		scf
c.]		acity available. T	otal of 7(a), less	s total of 7(b)		scf
c. Adeq	quacy of R Capacity s	•	qual to or greate	r than relie	f		scf
c.] Adeq a. 6 b. 6	quacy of R Capacity s capacity re	telief Capacity thown in 7(c) is equal to 1.	qual to or greate Capacity Adec	r than relie juate. See i f capacity 1	f #9.		scf
c.] Adeq a. 6 b. 6	Quacy of R Capacity s capacity s (Item # 6)	hown in 7(c) is equired (Item #6).	qual to or greate Capacity Adec ss than the relie lequate. See Par	r than relie juate. See if f capacity r rt III.	f #9. required	te 3)	scf
a. (c) The i	Quacy of R Capacity s capacity s (Item # 6)	hown in 7(c) is equired (Item #6). hown in 7(c) is le	qual to or greate Capacity Adec ss than the relie lequate. See Par bove have adec	r than relie juate. See if f capacity r rt III.	f #9. required city. (See no	te 3)	scf

Note 2 Refer to Section 3.0 of Gas Standard H–70.

Note 3 The Verified By box is usually initialed by a GSM or DCS Area Engineer. The Approved By box is usually approved by the Engineering Supervisor.

RETAIN THIS DOCUMENT AS A PERMANENT RECORD FOR THE LIFE OF THE FACILITY.

Capacity Review Of Relief Devices At Pressure Limiting and Regulating Stations as Required by Paragraphs 192.739 (b) and 192.743 of 49CFR192 (Refer to Gas Standard H–70)

ati	on Name:		Date:				
	sion						
ne	or System Supplied by Facility						
	Additional relief capacity required (fro	m Part II #6, less #7(c)).		scfh			
	Corrective action to be taken:						
	a. Increase relief capacity (see #3,	this sheet).		scfh			
	b. Replace relief equipment with a monitor.						
	b. Replace relief equipment with a						
	c. Other. Describe: If relief capacity is increased by adding	monitor. g an additional relief device or	replacing the existing	relief equipn			
	c. Other. Describe:	g an additional relief device or of the design calculations mus	replacing the existing t be attached to this for	relief equipn rm.			
	c. Other. Describe: If relief capacity is increased by adding relief device of larger capacity, a copy	g an additional relief device or of the design calculations must ate: e protection completed.	replacing the existing t be attached to this for	relief equipn rm.			
	c. Other. Describe:	g an additional relief device or of the design calculations must ate: e protection completed.	replacing the existing t be attached to this for	relief equipn rm.			
	c. Other. Describe: If relief capacity is increased by adding relief device of larger capacity, a copy Date capacity was found to be inadequate. Work to provide adequate overpressure.	g an additional relief device or of the design calculations must ate: e protection completed.	replacing the existing t be attached to this for	relief equipn rm.			
	c. Other. Describe: If relief capacity is increased by adding relief device of larger capacity, a copy Date capacity was found to be inadequate. Work to provide adequate overpressure.	g an additional relief device or of the design calculations must ate: e protection completed.	replacing the existing t be attached to this for	relief equipn rm.			

Note 1 The **Verified By** box is usually initialed by a GSM or DCS Area Engineer. The **Approved By** box is usually approved by the Engineering Supervisor.

RETAIN THIS DOCUMENT AS A PERMANENT RECORD FOR THE LIFE OF THE FACILITY.

CAPACITY REVIEW OF RELIEF DEVICES AT COMPRESSOR STATIONS AS REQUIRED BY PARAGRAPH 192.731 OF 49CFR192 (Refer to Gas Standard H-70)

Station Name:	Area:			District	:					
Line or system supplied by facility (see Note #1 below)			Ai	nniversary	month	(see No	te #2 be	elow)		
PART I — To Be Completed Annually										
This capacity check is for the Year										
#1 Was capacity reviewed for previous year?		YES								
If NO, complete Part II of Annual Capacity Review f	for Compressor Stations.	NO								
#2 Did previous review show that relief valve(s) had ade	equate capacity?	YES								
If NO, complete Part II of Annual Capacity Review for	or Compressor Stations.	NO								
#3 Have there been any changes to the compressor(s) at	this station, pressure	YES								
conditions (either inlet or outlet), load conditions, or	supply conditions which could	NO								
affect the ability of the relief valve(s) to limit the pre	ssure to the maximum			•	•					
permitted by paragraphs 192.169 and 192.201 of 49C	FR192?									
*If the answer is YES, complete Part II of Annual Capac	eity Review for Compressor Stns.									
**If answers to Item #1 and #2 were YES and Item #3 wa	s NO, check YES on Item #4.									
#4 Relief valve(s) at this station have adequate capacity.	If NO, complete	YES								
Part III of Annual Capacity Review for Compressor s	stations.	NO								
VERIFIED BY (Place initials in the appropriate box)										
DATE (Put date verified in the appropriate box)										
APPROVED BY (M. 1961 1 d. 1961 1										
APPROVED BY (Place initials in the appropriate box)										
DATE (Put date approved in the appropriate box)										
The state of the s										

NOTES:

- If there are compression facilities at the station supplying more than one line or system, a separate review must be performed for the overpressure protection devices for each line or system.
- All pressure relief devices shall be inspected, tested, and the capacity reviewed at intervals not exceeding 15 months, but at least once each calendar year. Furthermore, in addition to the annual capacity testing, the capacity of the relief devices shall be verified immediately when changes are made which could affect the ability of the relief device to protect the connected systems.
- 3. The Verified By box is usually initialed by a Technician or an M&C mechanic. The Approved By box is usually initialed by a Foreman or Operating Supervisor.

RETAIN THIS DOCUMENT AS A PERMANENT RECORD FOR THE LIFE OF THE FACILITY.

Capacity Review Of Relief Devices At Compressor Stations as Required by Paragraphs 192.731) of 49CFR192 (Refer to Gas Standard H–70)

tation Na	me:			Date:							
			District								
Line or System Supplied by Facility (see note #1 below)											
his Capac	city Review is for the	Year									
l. C e	omplete capacity review was required because:										
a.	——— Capacit	y review was no	ot performed in previous yea	r.							
b	The pre	vious capacity r	review showed that relief dev	vice capacity was	inadequate.						
C.	condition	ons, or supply co	de to the equipment at the standitions which could affect maximum permitted by 490	the ability of the							
	ation Pressure Cond										
P		•	OP, or MOP if lower).		ps						
	1 Marrimarra 40 a 4440 a		ps								
	2 – Maximum norma	•			23 – MAOP or MOP downstream of station psi						
P	3 – MAOP or MOP o	lownstream of s		9 and							
P P	3 – MAOP or MOP of 4 – Maximum permis Par. 192.201).	lownstream of s	station. Am pressure (see Par. 192.16) ystem Described Above	9 and							
P P	3 – MAOP or MOP of 4 – Maximum permis Par. 192.201). Compressor(s) Suppl	downstream of s ssible downstrea lying Line or S	am pressure (see Par. 192.16) ystem Described Above	9 and	psi						
P P	3 – MAOP or MOP of 4 – Maximum permis Par. 192.201).	downstream of s ssible downstrea lying Line or S	am pressure (see Par. 192.16	9 and	rence Source						
P P	3 – MAOP or MOP of 4 – Maximum permis Par. 192.201). Compressor(s) Supple Compressor of Compressor	downstream of s ssible downstrea lying Line or Sy sor	ystem Described Above Max Capacity	9 and Indicate Refe	rence Source						
P P O O O O O O O O O O O O O O O O O O	3 – MAOP or MOP of 4 – Maximum permis Par. 192.201). Compressor(s) Suppl Compress perating Diagram Designation	lownstream of some some some some some some some some	ystem Described Above Max Capacity (P1 or P2 in, P4 out)	9 and Indicate Refe	rence Source pacity lation sheet)						
P P O O O O O O O O O O O O O O O O O O	3 – MAOP or MOP of 4 – Maximum permis Par. 192.201). Compressor(s) Suppl Compressperating Diagram Designation mum Supply Capab Total Capacity of a	lownstream of sosible downstream lying Line or System Model illity Il compressors i	max Capacity (P1 or P2 in, P4 out) if installed in parallel.	9 and Indicate Refe	rence Source pacity lation sheet)						
P P	3 – MAOP or MOP of 4 – Maximum permis Par. 192.201). Compressor(s) Suppl Compress perating Diagram Designation	lownstream of sosible downstream lying Line or System Model illity Il compressors in the compressor	max Capacity (P1 or P2 in, P4 out) if installed in parallel. r installation with	9 and Indicate Refe for Ca (Attach calcu	rence Source pacity lation sheet)						
P P O O O O O O O O O O O O O O O O O O	3 – MAOP or MOP of 4 – Maximum permis Par. 192.201). Compressor(s) Supple Compress perating Diagram Designation mum Supply Capab Total Capacity of a Total capacity of se pressure drops adju	lownstream of some solution of solutions will be downstream of solutions of solutions will be downstream of solutions will be	max Capacity (P1 or P2 in, P4 out) if installed in parallel. r installation with	9 and Indicate Refe for Ca (Attach calcu	rence Source pacity lation sheet)						

RETAIN THIS DOCUMENT AS A PERMANENT RECORD FOR THE LIFE OF THE FACILITY.

4/15/98

Capacity Review Of Relief Devices At Compressor Stations as Required by Paragraphs 192.731) of 49CFR192 (Refer to Gas Standard H–70)

ic	on Name:						Date:
		npacity Red ner #4a or #	quired 4b above, wh	ichever is	lower.		scfh
a.		ef Device(s) Protecting l	l above			
			Relief Val	ve		Maximum	Capacity
	Size	Model	Serial No.	Orifice Sq. In.	Set Pressure PSIG	Capacity @ P4 (See note 2)	Reference
					piping, silencer	· -	
	Des	cribe:	available. To				
C	Des Rel: Rel: Cap	ef capacity ey of Relief acity show	available. To Capacity n in 6(c) is eq	otal of 6(a)	, less total of 6(l		scfh
ď	Des	ef capacity ey of Relief acity show Capacity acity show	available. To Capacity n in 6(c) is eq Adequate. Co	otal of 6(a) ual to or gr omplete #8	, less total of 6(to reater than relief below and answellef capacity relief ca	co) Capacity required (Item wer question #4 in Part	scfh
ر د	Des Adequae a. Cap #5). Cap (Ite	ef capacity ey of Relief acity show Capacity acity show m # 5). Ca	available. To Capacity In in 6(c) is eq Adequate. Co In in 6(c) is les	otal of 6(a) ual to or gr omplete #8 ss than the equate. Se	, less total of 6(t reater than relief 8 below and answerelief capacity re e Part III.	co) Capacity required (Item wer question #4 in Part	scfh
i l	Des Adequae a. Cap #5). Cap (Ite	ef capacity ey of Relief acity show Capacity acity show m # 5). Ca	available. To Capacity In in 6(c) is eq Adequate. Co In in 6(c) is les	otal of 6(a) ual to or gr omplete #8 ss than the equate. Se	, less total of 6(t reater than relief 8 below and answerelief capacity re e Part III.	capacity required (Iterwer question #4 in Part equired	scfh

Note 3 The **Verified By** box is usually initialed by a GSM or DCS Area Engineer. The **Approved By** box is usually approved by the Engineering Supervisor.

RETAIN THIS DOCUMENT AS A PERMANENT RECORD FOR THE LIFE OF THE FACILITY.

4/15/98

Capacity Review Of Relief Devices At Compressor Stations as Required by Paragraphs 192.731) of 49CFR192 (Refer to Gas Standard H–70)

ati	on Name:	Date:	
rea	l	District	
ne	or System Supplied by Facility (see	note #1 below)	
	Additional relief capacity required	(from Part II #5, less #6(c)).	Scfl
	Corrective action to be taken:		
	a. Increase relief capacity (see #	3, this sheet).	
	b. Other. Describe:		
	If relief capacity is increased by a replacing the existing relief equipment of the relief equipment o	dding an additional relief device or	
	Date capacity was found to be inac	dequate:	
	Work to provide adequate overpre	ssure protection completed.	
	Job No.	Completed on:	
	Verified by:	Approved by:	
	Date:	Date:	

Note 1 The **Verified By** box is usually initialed by a GSM or DCS Area Engineer. The **Approved By** box is usually approved by the Engineering Supervisor.

RETAIN THIS DOCUMENT AS A PERMANENT RECORD FOR THE LIFE OF THE FACILITY.

4/15/98