

AGENDA  
VILLAGE OF ROUND LAKE  
REGULAR MEETING  
February 17, 2015  
442 N. Cedar Lake Road  
7:00 P.M.

CALL TO ORDER

1. ROLL CALL

2. PLEDGE OF ALLEGIANCE

3. APPROVAL OF MINUTES

3.1 Approve the Minutes of the Regular Meeting of February 2, 2015

4. NOTES/COMMENDATIONS/PUBLIC COMMENT

4.1 Public Comment

5. CONSENT AGENDA

5.1 Approve Accounts Payable in the Amount of \$368,593.92

5.2 Approve Payroll for the Period Ending February 8, 2015 in the Amount of \$126,197.69

5.3 Adopt an Ordinance Authorizing the Police Department to Dispose of Village Owned Surplus Property Through Public Auction

5.4 Adopt a Resolution to Continue to Participate in the Northern Illinois Police Alarm System Annual Membership & Emergency Services Team Assessment

6. CLERK'S OFFICE

6.1 Student Essay: "Investigating The Possibilities: Making The Community A Better Place To Live!"

7. ADMINISTRATOR

7.1 Adopt a Resolution Approving an Intergovernmental Agreement Authorizing Round Lake School District 116 to Purchase Road Salt from the Village of Round Lake

7.2 Adopt an Ordinance Amending the Round Lake Village Code, 2006, as Amended, by Rescinding a Local Amendment to the Building Code Related to Automatic Sprinkler Systems in Village Buildings

8. FINANCE

8.1 Village Website Update

9. POLICE

10. PUBLIC WORKS

11. COMMUNITY DEVELOPMENT

12. BUILDING AND ZONING

13. SPECIAL EVENTS

14. MAYOR’S COMMENTS

14.1 Congressman Bod Dold Open House & Forum, February 21<sup>st</sup>, 2:30p.m. to 3:30 p.m.

14.2 Illinois Route 53/120 Corridor Land Use Plan Update

14.3 Trustee’s Comments

15. EXECUTIVE SESSION

16. ADDITIONAL BUSINESS

17. ADJOURN

MINUTES  
VILLAGE OF ROUND LAKE  
REGULAR MEETING  
February 2, 2015  
442 N. Cedar Lake Road  
7:00 P.M.

 **DRAFT**

CALL TO ORDER

THE REGULAR BOARD MEETING OF THE VILLAGE OF ROUND LAKE WAS CALLED TO ORDER BY DAN MACGILLIS, VILLAGE PRESIDENT AT 7:01 P.M.

1. ROLL CALL

Present: Trustees Kraly, Newby, Simoncelli, Triphahn, Wicinski  
Absent: Trustee Frye

2. PLEDGE OF ALLEGIANCE

3. APPROVAL OF MINUTES

3.1 Approve the Minutes of the Regular Meeting of January 19, 2015

Motion by Trustee Newby, Seconded by Trustee Triphahn, to approve the Minutes of the Regular Meeting of January 19, 2015. Upon a unanimous voice vote, the Mayor declared the motion carried

3.2 Adopt a Resolution Relating to the Review of Closed Session Minutes

Motion by Trustee Triphahn, Seconded by Trustee Simoncelli to Adopt a Resolution Relating to the Review of Closed Session Minutes.

Upon the call of the roll, the following voted:

Ayes: Trustees Kraly, Newby, Simoncelli, Triphahn, Wicinski  
Nays: None  
Abstain: None  
Absent: Trustee Frye

Mayor MacGillis Declared the Motion carried.

4. NOTES/COMMENDATIONS/PUBLIC COMMENT

4.1 Public Comment  
None

5. CONSENT AGENDA

Motion by Trustee Kraly, Seconded by Trustee Simoncelli, to do an Omnibus approval on item 5.1, 5.2, 5.3 & 5.4

Upon the call of the roll, the following voted:

Ayes: Trustees Kraly, Newby, Simoncelli, Triphahn, Wicinski  
Nays: None  
Abstain: None  
Absent: Trustee Frye

Mayor MacGillis Declared the Motion carried

- 5.1 Approve Accounts Payable in the Amount of \$646,102.17

Approved – Omnibus Vote

- 5.2 Approve Payroll for the Period Ending January 25, 2015 in the Amount of \$126,491.47

Approved – Omnibus Vote

- 5.3 Accept the Fiscal Year End April 30, 2014 Audit Report and Management Letter as Presented

Approved – Omnibus Vote

- 5.4 Approve the 2015 Special Events Meeting Dates

Approved – Omnibus Vote

## 6. CLERK'S OFFICE

- 6.1 Holiday House Decorating Contest Winner

The Holiday House Decorating Contest Winner, The Kohlmeyer Family, was unable to make it this evening and will be given the plaque privately

## 7. ADMINISTRATOR

- 7.1 Adopt an Ordinance Amending the Round Lake Village Code, 2006, as Amended, by Rescinding a Local Amendment to the Building Code Related to Automatic Sprinkler Systems in Village Buildings

Motion by Trustee Kraly, Seconded by Trustee Simoncelli to Adopt an Ordinance Amending the Round Lake Village Code 2006 as Amended by Rescinding a Local amendment to the Building Code Related to Automatic Sprinkler Systems in Village Buildings. Under Discussion it was asked what is the goal of changing the code and it was stated that historically there are no deaths associated when sprinklers are present and if it's being changed for economic growth over safety. The Mayor reiterated that the Village is planning on keeping the 2006 code as verbatim, which is a very good code and adopted by many municipalities throughout the US as well as our neighboring villages, the only thing we are doing is removing the variance, everything else stays as is.

Upon the call of the roll, the following voted:

Ayes: Trustees Kraly, Simoncelli  
Nays: Trustee Newby, Triphahn, Wicinski  
Abstain: None  
Absent: Trustee Frye

Mayor MacGillis Declared the Motion failed.

8. FINANCE

9. POLICE

10. PUBLIC WORKS

- 10.1 Adopt a Resolution Ratifying Repairs to Vector Truck in the Amount not to Exceed \$2,910.10 by Standard Equipment Company  
Motion by Trustee Newby, Seconded by Trustee Wicinski to Adopt a Resolution Ratifying Repairs to Vector Truck in the Amount not to Exceed \$2,910.00 by Standard Equipment Company.

Upon the call of the roll, the following voted:

Ayes: Trustees Kraly, Newby, Simoncelli, Triphahn, Wicinski  
Nays: None  
Abstain: None  
Absent: Trustee Frye

- 10.2 Adopt a Resolution Ratifying Repairs to the Prairie Walk Lift Station Pump in the Amount not to Exceed \$2,220.35 by Xylem Water Solutions, USA, Inc.  
Motion by Trustee Triphahn, seconded by Trustee Newby to Adopt a Resolution Ratifying Repairs to the Prairie Walk Lift Station Pump in the Amount not to Exceed \$2,220.35 by Xylem Water Solutions, USA, Inc.

Upon the call of the roll, the following voted:

Ayes: Trustees Kraly, Newby, Simoncelli, Triphahn, Wicinski  
Nays: None  
Abstain: None  
Absent: Trustee Frye

11. COMMUNITY DEVELOPMENT

12. BUILDING AND ZONING

- 12.1 Adopt an Ordinance Granting a Special Use Permit to Allow for the Sale of Alcoholic Beverages to EMMA's Deli, for the Property Located at 171 Belvidere Road  
Motion by Trustee Kraly, Seconded by Trustee Simoncelli to Adopt an Ordinance Granting a Special Use Permit to Allow for the Sale of Alcoholic Beverages to EMMA's Deli, for the Property Located at 171 Belvidere Road

Upon the call of the roll, the following voted:

Ayes: Trustees Kraly, Newby, Simoncelli, Triphahn, Wicinski  
Nays: None  
Abstain: None  
Absent: Trustee Frye

12.2 Adopt an Ordinance Granting a Special Use Permit to Allow for the Sale of Alcoholic Beverages to Banquet Route 60, Inc. for the Property Located at 1797, 1805 and 1809 S. Cedar Lake Road

Motion by Trustee Kraly, Seconded by Trustee Triphahn, to Adopt an Ordinance Granting a Special Use Permit to Allow for the Sale of Alcoholic beverages to Banquet Route 60, Inc. for the Property Located at 1797, 1805 and 1809 S. Cedar Lake Road.

Upon the call of the roll, the following voted:

Ayes: Trustees Kraly, Newby, Simoncelli, Triphahn, Wicinski  
Nays: None  
Abstain: None  
Absent: Trustee Frye

### 13. SPECIAL EVENTS

### 14. MAYOR'S COMMENTS

14.1 Adopt an Ordinance Amending the Liquor License Chapter of the Round Lake Village Code (Number of Licenses)

Motion by Trustee Kraly, Seconded by Trustee Triphahn to Adopt an Ordinance Amending the Liquor License Chapter of the Round Lake Village Code (Number of Licenses). Under discussion, Trustee Newby asked how many total liquor licenses there were. VA Shields stated there were currently 26.

Upon the call of the roll, the following voted:

Ayes: Trustees Kraly, Newby, Simoncelli, Triphahn, Wicinski  
Nays: None  
Abstain: None  
Absent: Trustee Frye

14.2 Mayor's Comment

The Mayor mentioned the award the Village received from the American Public Works Association (APWA) – Lake Branch for our Hart Road/Sunset Project and that it is up for a State Award as well. Mayor MacGillis commended Public Works Director Lenny Gahgan and the PW crew for the great job they all did with the snow event that took place over the weekend.

14.3 Trustee's Comments

The Trustees also thanked PWD Gahgan and the PW Staff for the great job that they did over the weekend, they also thanked PWD Gahgan for the training and work he has done with the PW staff and how it shows in the moral of the department. It was mentioned that Reverend Kaufman had appeared on Channel 7 news regarding his award recognition recently and as being the Chaplin of our Police Department. The Mayor was commended on the speech he did at the Mayor's Luncheon sponsored by the Round Lake Chamber. SWALCO and the Electronics pick up location will only be at Grant Township or at SWALCO in Gurnee. Also mentioned was the upcoming bowling event that will take place this coming weekend and last for several weeks.

15. EXECUTIVE SESSION

None

16. ADDITIONAL BUSINESS

17. ADJOURN

Trustee Newby moved, seconded by Trustee Wicinski, to adjourn. Upon a unanimous voice vote, the Mayor declared the motion carried and the meeting adjourned at 7:37 P.M.

APPROVED:

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Patricia C. Blauvelt  
Village Clerk

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Daniel MacGillis  
Village President



GENERAL FUND  
ACTIVITY FROM 01/30/2015 TO 02/11/2015

ACCOUNT #	ACCOUNT DESCRIPTION VENDOR NAME	VENDOR #	TRANSACTION DESCRIPTION	CHECK #	CHECK DATE	ITEM AMOUNT
01-00-22-22224	EMPL. OPTIONAL AD&D INS. AFLAC	A10	FEBRUARY PREMIUM	180096	02/11/15	681.00
	NCPERS -IL IMRF	N3	EMPL.OPTIONAL AD&D FEB.	180123	02/11/15	16.00
			ACCOUNT TOTAL:			697.00
01-00-22-22234	PRINCIPAL LIFE INS.-VOLUNTARY PLIC-SBD GRAND ISLAND	P121	VOLUNTARY LIFE INS. FEBRUARY	180129	02/11/15	279.60
			ACCOUNT TOTAL:			279.60
01-20-71-67107	DENTAL INSURANCE PLIC-SBD GRAND ISLAND	P121	DENTAL INSURANCE FEBRUARY	180129	02/11/15	281.13
			ACCOUNT TOTAL:			281.13
01-20-71-67108	VISION INSURANCE FIDELITY SECURITY LIFE-EYE MED	F97	VISION INSURANCE FEB.	180112	02/11/15	27.33
			ACCOUNT TOTAL:			27.33
01-20-71-67109	LIFE INSURANCE PLIC-SBD GRAND ISLAND	P121	LIFE INSURANCE FEBRUARY	180129	02/11/15	14.79
			ACCOUNT TOTAL:			14.79
01-20-75-77515	GARBAGE COLLECTION WASTE MANAGEMENT	W43	JANUARY 2015 SERVICE	180137	02/11/15	79,980.52
			ACCOUNT TOTAL:			79,980.52
01-20-75-77537	LEGAL NOTICES/RECORDING FEES SUN TIMES MEDIA	S33	PUBLIC HEARING NOTICE	180136	02/11/15	75.20
			ACCOUNT TOTAL:			75.20
01-20-75-77541	SWALCO SWALCO	S100	2015 OPERATIONS/MAIN	180135	02/11/15	7,757.50
			ACCOUNT TOTAL:			7,757.50
01-20-77-77704	SPECIAL EVENTS					

GENERAL FUND  
 ACTIVITY FROM 01/30/2015 TO 02/11/2015

ACCOUNT #	ACCOUNT DESCRIPTION VENDOR NAME	VENDOR #	TRANSACTION DESCRIPTION	CHECK #	CHECK DATE	ITEM AMOUNT
01-20-77-77704	SPECIAL EVENTS ARTRAGEOUS	A105	AWARD FOR KOHLMAYER FAMILY	180097	02/11/15	60.00
			ACCOUNT TOTAL:			60.00
01-20-80-88018	OFFICE EQUIPMENT KONICA MINOLTA PREMIER FINANCE	K56	FEBRUARY LEASE PAYMENT	180118	02/11/15	261.38
			ACCOUNT TOTAL:			261.38
01-40-71-67107	DENTAL INSURANCE PLIC-SBD GRAND ISLAND	P121	DENTAL INSURANCE FEBRUARY	180129	02/11/15	1,749.18
			ACCOUNT TOTAL:			1,749.18
01-40-71-67108	VISION INSURANCE FIDELITY SECURITY LIFE-EYE MED	F97	VISION INSURANCE FEB.	180112	02/11/15	221.44
			ACCOUNT TOTAL:			221.44
01-40-71-67109	LIFE INSURANCE PLIC-SBD GRAND ISLAND	P121	LIFE INSURANCE FEBRUARY	180129	02/11/15	121.22
			ACCOUNT TOTAL:			121.22
01-40-72-67202	UNIFORMS APPAREL SEWN RIGHT	A184	UNIFORM-TROY AKEY	180099	02/11/15	39.05
	GALLS, AN ARAMARK COMPANY	G2	UNIFORM-GULLIFOR	180113	02/11/15	176.50
	GALLS, AN ARAMARK COMPANY	G2	UNIFORM,RADIO HOLDER,BATTERIES	180113	02/11/15	195.97
	GALLS, AN ARAMARK COMPANY	G2	CHARGER FLASH LIGHT-CHENEY	180113	02/11/15	144.00
	P.F. PETTIBONE & CO.	P1	NAME PLATE W/ENGRAVING	180127	02/11/15	39.50
			ACCOUNT TOTAL:			595.02
01-40-72-67204	DUES & MEMBERSHIPS IACP - MEMBERSHIP	I15	IACP ANNUAL MEMBERSHIP RENEWAL	180116	02/11/15	175.00
			ACCOUNT TOTAL:			175.00
01-40-72-67208	MEETINGS, TRAVEL, & TRAINING NORTHWESTERN UNIVERSITY	N90	SCHOOL POL GRADUATION LUNCHEON	180126	02/11/15	96.00
			ACCOUNT TOTAL:			96.00
01-40-73-77311	VILLAGE PROSECUTOR					

GENERAL FUND  
 ACTIVITY FROM 01/30/2015 TO 02/11/2015

ACCOUNT #	ACCOUNT DESCRIPTION VENDOR NAME	VENDOR #	TRANSACTION DESCRIPTION	CHECK #	CHECK DATE	ITEM AMOUNT
01-40-73-77311	VILLAGE PROSECUTOR ALBERT L. WYSOCKI	W78	JANUARY LEGAL	180138	02/11/15	4,144.50
			ACCOUNT TOTAL:			4,144.50
01-40-73-77313	LEGAL SERVICES FRANCZEK RADELET	F60	DECEMBER LEGAL SERVICES	180111	02/11/15	132.00
			ACCOUNT TOTAL:			132.00
01-40-74-77430	OFFICE SUPPLIES QUILL CORPORATION QUILL CORPORATION QUILL CORPORATION	Q2 Q2 Q2	CD-R, CD ENVELOPES, 16X DVDR 4 DURABLE BINDERS 500GB HARD DRIVE	180130 180130 180130	02/11/15 02/11/15 02/11/15	196.90 41.95 69.99
			ACCOUNT TOTAL:			308.84
01-40-77-77706	MISCELLANEOUS EXPENSE LAKE ZURICH FLORIST	L139	PLANT FOR MIKE SCHMIDT	180120	02/11/15	70.08
			ACCOUNT TOTAL:			70.08
01-40-80-88018	OFFICE EQUIPMENT KONICA MINOLTA PREMIER FINANCE	K56	FEBRUARY LEASE PAYMENT	180118	02/11/15	261.37
			ACCOUNT TOTAL:			261.37
01-40-82-88202	TELEPHONE SERVICE COMCAST CABLE	C156	PH SERVICE 01/29-02/28/15	180103	02/11/15	49.28
			ACCOUNT TOTAL:			49.28
01-40-84-88404	VEHICLE REPAIRS A TIRE COUNTY SERVICE A TIRE COUNTY SERVICE	A1 A1	OIL CHANGE, FRONT BRAKE JOB #31 FRNT BRAKES, A/C CONDENSER #71	180095 180095	02/11/15 02/11/15	503.42 899.28
			ACCOUNT TOTAL:			1,402.70
01-40-84-88406	VEHICLE MAINTENANCE A TIRE COUNTY SERVICE A TIRE COUNTY SERVICE A TIRE COUNTY SERVICE A TIRE COUNTY SERVICE	A1 A1 A1 A1	OIL CHANGE, TIRE ROTATION #40 OIL CHANGE, TIRE ROTATION #71 OIL CHANGE, TIRE ROTATION #32 OIL CHANGE, TIRE ROTATION #62	180095 180095 180095 180095	02/11/15 02/11/15 02/11/15 02/11/15	47.95 47.95 47.95 47.95
			ACCOUNT TOTAL:			191.80
01-60-71-67107	DENTAL INSURANCE					

GENERAL FUND  
 ACTIVITY FROM 01/30/2015 TO 02/11/2015

ACCOUNT #	ACCOUNT DESCRIPTION VENDOR NAME	VENDOR #	TRANSACTION DESCRIPTION	CHECK #	CHECK DATE	ITEM AMOUNT
01-60-71-67107	DENTAL INSURANCE PLIC-SBD GRAND ISLAND	P121	DENTAL INSURANCE FEBRUARY	180129	02/11/15	288.26
			ACCOUNT TOTAL:			288.26
01-60-71-67108	VISION INSURANCE FIDELITY SECURITY LIFE-EYE MED	F97	VISION INSURANCE FEB.	180112	02/11/15	38.94
			ACCOUNT TOTAL:			38.94
01-60-71-67109	LIFE INSURANCE PLIC-SBD GRAND ISLAND	P121	LIFE INSURANCE FEBRUARY	180129	02/11/15	20.17
			ACCOUNT TOTAL:			20.17
01-60-79-77905	B&G REPAIRS GRAINGER, INC.	G9	BALLAST FOR STREET LIGHT	180114	02/11/15	188.78
			ACCOUNT TOTAL:			188.78
01-60-82-88202	TELEPHONE SERVICE COMCAST CABLE	C156	PH SERVICE 01/29-02/28/15	180103	02/11/15	49.28
			ACCOUNT TOTAL:			49.28
01-60-82-88206	ELECTRICAL SERVICE COMED	C0202	12/20/14-1/26/15 ELECTRIC	180102	02/11/15	343.12
	COMED	C0202	11/19/-12/23/14 ELECTRIC	180102	02/11/15	990.86
			ACCOUNT TOTAL:			1,333.98
01-60-82-88216	STREET LIGHTS - ELECTRICAL COMED	C2027	12/31/14-2/2/15 ELECTRIC	180104	02/11/15	7.74
	COMED	C6285	12/31/14-2/2-15 ELECTRIC	180107	02/11/15	7.84
			ACCOUNT TOTAL:			15.58
01-60-84-88404	VEHICLE REPAIRS ROCK CHEVROLET GRAYSLAKE	R172	FLOOR MATS & MUD FLAPS FOR #55	180132	02/11/15	51.00
	RUSH TRUCK CENTERS OF ILLINOIS	R176	NEW MIRRORS FOR #54	180133	02/11/15	344.99
			ACCOUNT TOTAL:			395.99
01-70-71-67107	DENTAL INSURANCE					

GENERAL FUND  
 ACTIVITY FROM 01/30/2015 TO 02/11/2015

ACCOUNT #	ACCOUNT DESCRIPTION VENDOR NAME	VENDOR #	TRANSACTION DESCRIPTION	CHECK #	CHECK DATE	ITEM AMOUNT
01-70-71-67107	DENTAL INSURANCE PLIC-SBD GRAND ISLAND	P121	DENTAL INSURANCE FEBRUARY	180129	02/11/15	160.25
			ACCOUNT TOTAL:			160.25
01-70-71-67108	VISION INSURANCE FIDELITY SECURITY LIFE-EYE MED	F97	VISION INSURANCE FEB.	180112	02/11/15	23.16
			ACCOUNT TOTAL:			23.16
01-70-71-67109	LIFE INSURANCE PLIC-SBD GRAND ISLAND	P121	LIFE INSURANCE FEBRUARY	180129	02/11/15	12.54
			ACCOUNT TOTAL:			12.54
01-70-72-67204	DUES & MEMBERSHIPS IACE IACE N.W.B.O.C.A.	I76 I76 N33	ANNUAL MEMBERSHIP JOHNSON ANNUAL MEMBERSHIP DONOVAN 2015 RENEWAL DONOVAN/JOHNSON	180117 180117 180124	02/11/15 02/11/15 02/11/15	25.00 25.00 50.00
			ACCOUNT TOTAL:			100.00
01-70-74-77430	OFFICE SUPPLIES ACE HARDWARE	A4	SNOW BRUCH/SCRAPPER	180100	02/11/15	19.79
			ACCOUNT TOTAL:			19.79
01-70-91-99107	IT MAINTENANCE SERVICES BS&A SOFTWARE	B45	ANNUAL SERV. 02/01/15-01/31/16	180101	02/11/15	759.00
			ACCOUNT TOTAL:			759.00
			GENERAL FUND			102,358.60

DATE: 02/11/15  
TIME: 11:03:12  
ID: AP4A0000.WOW

VILLAGE OF ROUND LAKE  
PAID INVOICES BY ACCOUNT NUMBER

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CAPITAL PROJECTS FUND  
ACTIVITY FROM 01/30/2015 TO 02/11/2015

ACCOUNT #	ACCOUNT DESCRIPTION VENDOR NAME	VENDOR #	TRANSACTION DESCRIPTION	CHECK #	CHECK DATE	ITEM AMOUNT
35-20-83-88301	ROADWAY IMPROVEMENTS PETER BAKER & SON CO.	P102	VALLEY LAKES RESURFACE - FINAL	180128	02/11/15	83,406.24
			ACCOUNT TOTAL:			83,406.24
			CAPITAL PROJECTS FUND			83,406.24

WATER/SEWER FUND  
 ACTIVITY FROM 01/30/2015 TO 02/11/2015

ACCOUNT #	ACCOUNT DESCRIPTION VENDOR NAME	VENDOR #	TRANSACTION DESCRIPTION	CHECK #	CHECK DATE	ITEM AMOUNT
50-00-22-22224	EMPL. OPTIONAL AD&D INS. AFLAC	A10	FEBRUARY PREMIUM	180096	02/11/15	70.34
			ACCOUNT TOTAL:			70.34
50-60-71-67107	DENTAL INSURANCE PLIC-SBD GRAND ISLAND	P121	DENTAL INSURANCE FEBRUARY	180129	02/11/15	378.13
			ACCOUNT TOTAL:			378.13
50-60-71-67108	VISION INSURANCE FIDELITY SECURITY LIFE-EYE MED	F97	VISION INSURANCE FEB.	180112	02/11/15	48.37
			ACCOUNT TOTAL:			48.37
50-60-71-67109	LIFE INSURANCE PLIC-SBD GRAND ISLAND	P121	LIFE INSURANCE FEBRUARY	180129	02/11/15	31.09
			ACCOUNT TOTAL:			31.09
50-60-74-77428	WATER METERS HD SUPPLY WATERWORKS, LTD.	H45	METERS AND METER PARTS	180115	02/11/15	1,072.00
			ACCOUNT TOTAL:			1,072.00
50-60-75-77535	OUTSOURCING WATER BILLS THE DIRECT RESPONSE RESOURCE	D22	JANUARY WATER BILLING	180109	02/11/15	1,287.90
			ACCOUNT TOTAL:			1,287.90
50-60-75-77537	LEGAL NOTICES/RECORDING FEES LAKE COUNTY RECORDER OF DEEDS	L10	EDY GIRON LEAN	180119	02/11/15	29.00
			ACCOUNT TOTAL:			29.00
50-60-82-88202	TELEPHONE SERVICE COMCAST CABLE	C156	PH SERVICE 01/29-02/28/15	180103	02/11/15	49.29
			ACCOUNT TOTAL:			49.29
50-60-82-88206	ELECTRICAL SERVICE COMED	C0202	12/20/14-1/26/15 ELECTRIC	180102	02/11/15	55.08

WATER/SEWER FUND  
 ACTIVITY FROM 01/30/2015 TO 02/11/2015

ACCOUNT #	ACCOUNT DESCRIPTION VENDOR NAME	VENDOR #	TRANSACTION DESCRIPTION	CHECK #	CHECK DATE	ITEM AMOUNT
50-60-82-88206	ELECTRICAL SERVICE					
	COMED	C0202	11/19/-12/23/14 ELECTRIC	180102	02/11/15	49.98
	COMED	C3142	12/14/14-1/26/15 ELECTRIC	180105	02/11/15	216.20
			ACCOUNT TOTAL:			321.26
50-60-82-88208	HEATING					
	NICOR GAS	N7	01/06-02/04/15 HEAT	180125	02/11/15	32.17
	NICOR GAS	N7	01/07-02/05/15 HEAT	180125	02/11/15	125.39
			ACCOUNT TOTAL:			157.56
50-60-82-88210	JAWA EXPENSE					
	CENTRAL LAKE COUNTY	C5	JANUARY WATER USAGE	180106	02/11/15	84,013.80
			ACCOUNT TOTAL:			84,013.80
50-60-82-88212	LAKE COUNTY SEWER					
	LAKE COUNTY PUBLIC WORKS DEPT	L9	JANUARY SEWER FEES	180121	02/11/15	84,813.12
			ACCOUNT TOTAL:			84,813.12
50-60-82-88214	EXCESS FACILITY CHARGES					
	LAKE COUNTY PUBLIC WORKS	L9B	JANUARY EXCESS FACILITY FEES	180122	02/11/15	9,178.50
			ACCOUNT TOTAL:			9,178.50
50-60-84-88404	VEHICLE REPAIRS					
	ROCK CHEVROLET GRAYSLAKE	R172	FLOOR MATS & MUD FLAPS FOR #55	180132	02/11/15	51.00
	RUSH TRUCK CENTERS OF ILLINOIS	R176	NEW MIRRORS FOR #54	180133	02/11/15	344.99
			ACCOUNT TOTAL:			395.99
50-60-92-99208	REPAIRS TO LIFT STATIONS					
	RELADYNE	R180	OIL FOR LIFT STATIONS PUMP	180134	02/11/15	160.60
			ACCOUNT TOTAL:			160.60
			WATER/SEWER FUND			182,006.95

DATE: 02/11/15  
TIME: 11:03:12  
ID: AP4A0000.WOW

VILLAGE OF ROUND LAKE  
PAID INVOICES BY ACCOUNT NUMBER

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COMMUTER PARKING LOT FUND  
ACTIVITY FROM 01/30/2015 TO 02/11/2015

ACCOUNT #	ACCOUNT DESCRIPTION VENDOR NAME	VENDOR #	TRANSACTION DESCRIPTION	CHECK #	CHECK DATE	ITEM AMOUNT
51-60-82-88206	ELECTRICAL SERVICE COMED	C7018	12/20/14-1/27/15 ELECTRIC	180108	02/11/15	72.13
			ACCOUNT TOTAL:			72.13
			COMMUTER PARKING LOT FUND			72.13

DATE: 02/11/15  
TIME: 11:03:12  
ID: AP4A0000.WOW

VILLAGE OF ROUND LAKE  
PAID INVOICES BY ACCOUNT NUMBER

BUILDERS ESCROW  
ACTIVITY FROM 01/30/2015 TO 02/11/2015

ACCOUNT #	ACCOUNT DESCRIPTION VENDOR NAME	VENDOR #	TRANSACTION DESCRIPTION	CHECK #	CHECK DATE	ITEM AMOUNT
83-00-24-22455	PERMIT BONDS					
	AFFORDABLE CONTRACTORS	A152	BOND REFUND	180098	02/11/15	250.00
	FOUR OAKS LLC	F52	BOND REFUND	180110	02/11/15	250.00
	RAMIREZ OSCAR & MARTA	R103	BOND REFUND	180131	02/11/15	250.00
			ACCOUNT TOTAL:			750.00
			BUILDERS ESCROW			750.00

DATE: 02/11/15  
TIME: 11:03:12  
ID: AP4A0000.WOW

VILLAGE OF ROUND LAKE  
PAID INVOICES BY ACCOUNT NUMBER

FINAL TOTALS  
ACTIVITY FROM 01/30/2015 TO 02/11/2015

---

GENERAL FUND	102,358.60
CAPITAL PROJECTS FUND	83,406.24
WATER/SEWER FUND	182,006.95
COMMUTER PARKING LOT FUND	72.13
BUILDERS ESCROW	<u>750.00</u>
GRAND TOTAL	<u>368,593.92</u>

**VILLAGE OF ROUND LAKE**

**THE PRESIDENT AND BOARD OF TRUSTEES OF**

**THE VILLAGE OF ROUND LAKE**

**APPROVES THE PAYMENT OF PAYROLL**

**FOR THE PERIOD ENDING FEBRUARY 8, 2015**

**IN THE AMOUNT OF \$126,197.69**

---

**Daniel A. MacGillis, Village President**

**ATTEST:**

---

**Patricia C. Blauvelt, Village Clerk**

**Dated: February 17, 2015**

DATE: 02/11/2015  
 TIME: 10:21:37  
 ID: PR460000.WOW

VILLAGE OF ROUND LAKE  
 PAYROLL REGISTER REPORT

FOR CHECK DATES 02/12/2015 TO 02/12/2015

EMPL. #	NAME	CODE	EARNINGS			TAXES			DEDUCTIONS				
			PAY RATE	HOURS	TOTAL	CODE	EMPLOYEE	EMPLOYER	CODE	EMPLOYEE	EMPLOYER		
GRAND TOTALS:		REG	472.000		15,420.93	FED	1,678.58		DD1	7,440.55	IMR	567.12	1,242.61
		CA	1.000		115.39	FICA	946.89	946.89	DD2	1,157.64	DFA	18.50	
		GWA	1.000		39.62	MEDIC	221.46	221.46	GW	250.00	HFA	172.56	
		SIC	8.000		209.50	STATE	493.22		GWA	39.62	VFA	2.27	
									HSA	75.00	IM2	143.23	313.83
									ICM	789.63	DSA	15.96	
									IMV	95.49	HSA	95.22	
											VSA	1.05	
											DCA	9.57	
											PCA	122.77	
						TOTAL FICA EMPLOYEE WAGES:	15,272.54	TOTAL EMPLOYER FICA:		946.89			
						TOTAL MEDICARE EMPLOYEE WAGES:	15,272.54	TOTAL EMPLOYER MEDICARE:		221.46			
						TOTAL FEDERAL EMPLOYEE WAGES:	13,482.94	TOTAL EMPLOYER PENSION:		1,556.44			
						TOTAL STATE EMPLOYEE WAGES:	13,482.94						
						TOTAL PENSION EMPLOYEE WAGES:	15,785.44						
						TOTAL NUMBER OF EMPLOYEES:	6						
						GROSS PAY:	\$15,785.44	TOTAL DEDUCTIONS:	14,336.33	NET PAY:	\$1,449.11		

VILLAGE OF ROUND LAKE  
 PAYROLL REGISTER REPORT

BUILDING

FOR CHECK DATES 02/12/2015 TO 02/12/2015

EMPL. #	NAME	CODE	EARNINGS		TAXES			DEDUCTIONS		PENSION/INSUR			
			PAY RATE	HOURS	TOTAL	EMPLOYEE	EMPLOYER	CODE	EMPLOYEE	CODE	EMPLOYEE	EMPLOYER	
GRAND TOTALS:		REG	200.000		5,349.18	FED	996.04		DD1	5,100.35	IMR	342.63	750.75
		SIC	4.000		113.30	FICA	452.06	452.06	AF1	28.25	DFB	18.50	
		VAC	28.000		753.62	MEDIC	105.73	105.73	PLI	36.86	PFB	273.93	
		FLH	8.000		187.14	STATE	257.47				VFB	2.27	
		OT	28.500		1,210.85								
TOTAL FICA EMPLOYEE WAGES:						7,291.14	TOTAL EMPLOYER FICA:		452.06				
TOTAL MEDICARE EMPLOYEE WAGES:						7,291.14	TOTAL EMPLOYER MEDICARE:		105.73				
TOTAL FEDERAL EMPLOYEE WAGES:						6,948.51	TOTAL EMPLOYER PENSION:		750.75				
TOTAL STATE EMPLOYEE WAGES:						6,948.51							
TOTAL PENSION EMPLOYEE WAGES:						7,614.09							
TOTAL NUMBER OF EMPLOYEES:						3							
GROSS PAY:			\$7,614.09	TOTAL DEDUCTIONS:		7,614.09	NET PAY:		\$0.00				

VILLAGE OF ROUND LAKE  
 PAYROLL REGISTER REPORT

POLICE

FOR CHECK DATES 02/12/2015 TO 02/12/2015

EMPL. #	NAME	EARNINGS			TAXES			DEDUCTIONS		PENSION/INSUR			
		CODE	PAY RATE	HOURS	CODE	EMPLOYEE	EMPLOYER	CODE	EMPLOYEE	CODE	EMPLOYEE	EMPLOYER	
GRAND TOTALS:													
	REG		1,918.250		62,384.64	FED	7,333.64		AF2	240.74	IMR	331.45	726.27
	SIC		117.000		4,538.08	FICA	4,282.97	4,282.97	DD1	38,591.90	DSP	15.96	
	CMP		16.000		517.82	MEDIC	1,001.66	1,001.66	DD2	3,059.65	PSP	151.16	
	PO		30.000		1,340.02	STATE	2,333.37		MAP	297.00	VFP	2.27	
	POI		2.000		120.00				AF1	36.34	POL	6,002.72	
	FTO		17.000		545.35				GW	350.00	EFF	13.76	
	VAC		44.000		1,424.48				PLI	78.18	RIP	92.67	
	PSI		1.000		75.00				HSA	100.00	TFP	102.80	
	SRO		1.000		60.00				ICM	925.00	IFP	404.76	
	INS		1.000		285.10				DD3	1,715.75	RFP	642.54	
									CS4	203.00	ISP	77.00	
											DCP	9.57	
											HCP	77.34	
											VCP	1.17	
											EIP	0.96	
											TIP	5.76	
											DFP	17.62	
											FFP	273.93	
											ECP	0.94	
											RCP	110.88	
											TCP	6.70	
											IIP	58.38	
											VSP	1.05	
											ESP	0.89	
											TSP	6.07	
TOTAL FICA EMPLOYEE WAGES:					69,079.97	TOTAL EMPLOYER FICA:		4,282.97					
TOTAL MEDICARE EMPLOYEE WAGES:					69,079.97	TOTAL EMPLOYER MEDICARE:		1,001.66					
TOTAL FEDERAL EMPLOYEE WAGES:					61,470.80	TOTAL EMPLOYER PENSION:		726.27					
TOTAL STATE EMPLOYEE WAGES:					61,470.80								
TOTAL PENSION EMPLOYEE WAGES:					67,937.92								
TOTAL NUMBER OF EMPLOYEES:					28								
GROSS PAY:			\$71,290.49	TOTAL DEDUCTIONS:		68,957.55	NET PAY:		\$2,332.94				

DATE: 02/11/2015  
 TIME: 10:25:52  
 ID: PR460000.WOW

VILLAGE OF ROUND LAKE  
 PAYROLL REGISTER REPORT

PUBLIC WORKS PAGE: 1

FOR CHECK DATES 02/12/2015 TO 02/12/2015

EMPL. #	NAME	EARNINGS			TAXES			DEDUCTIONS		PENSION/INSUR			
		CODE	PAY RATE	HOURS	TOTAL	CODE	EMPLOYEE	EMPLOYER	CODE	EMPLOYEE	EMPLOYEE	EMPLOYER	
GRAND TOTALS:		REG	878.250		21,524.26	FED	3,556.47		AF1	43.98	IMR	1,148.15	2,515.75
		OT	222.000		8,366.98	FICA	1,881.97	1,881.97	GW	320.00	DSW	15.96	
		SIC	42.500		1,046.58	MEDIC	440.15	440.15	HSA	91.25	HSW	95.22	
		OC	14.000		357.09	STATE	1,030.62		INS	8.00	VSW	1.05	
		CMP	1.000		29.32				UOE	413.59	DFW	55.50	
		VAC	8.000		183.44				DD1	16,483.85	PFW	547.86	
									DD2	1,282.69	VFW	6.81	
									ICM	461.31	PCW	122.77	
									PLI	10.72	IM2	115.64	253.37
									AF2	26.36	HFV	172.56	
TOTAL FICA EMPLOYEE WAGES:					30,354.71	TOTAL EMPLOYER FICA:				1,881.97			
TOTAL MEDICARE EMPLOYEE WAGES:					30,354.71	TOTAL EMPLOYER MEDICARE:				440.15			
TOTAL FEDERAL EMPLOYEE WAGES:					28,309.61	TOTAL EMPLOYER PENSION:				2,769.12			
TOTAL STATE EMPLOYEE WAGES:					28,309.61								
TOTAL PENSION EMPLOYEE WAGES:					28,084.46								
						TOTAL NUMBER OF EMPLOYEES:			15				
GROSS PAY:					\$31,507.67	TOTAL DEDUCTIONS:		28,332.48	NET PAY:			\$3,175.19	

VILLAGE OF ROUND LAKE  
 PAYROLL REGISTER REPORT

TOTAL

FOR CHECK DATES 02/12/2015 TO 02/12/2015

EMPL. #	NAME	EARNINGS			TAXES			DEDUCTIONS		PENSION/INSUR				
		CODE	PAY RATE	HOURS	TOTAL	CODE	EMPLOYEE	EMPLOYER	CODE	EMPLOYEE	EMPLOYER			
GRAND TOTALS:	REG		3,468.500		104,679.01	FED	13,564.73		DD1	67,616.65	IMR	2,389.35		5,235.38
	CA		1.000		115.39	FICA	7,563.89	7,563.89	DD2	5,499.98	DFA	18.50		
	GWA		1.000		39.62	MEDIC	1,769.00	1,769.00	GW	920.00	HFA	172.56		
	OT		250.500		9,577.83	STATE	4,114.68		GWA	39.62	VFA	2.27		
	SIC		171.500		5,907.46				HSA	266.25	IM2	258.87		567.20
	OC		14.000		357.09				ICM	2,175.94	DSA	15.96		
	CMP		17.000		547.14				IMV	95.49	HSA	95.22		
	VAC		80.000		2,361.54				AF1	108.57	VSA	1.05		
	PO		30.000		1,340.02				INS	8.00	DCA	9.57		
	POI		2.000		120.00				UOE	413.59	PCA	122.77		
	FTO		17.000		545.35				PLI	125.76	DSW	15.96		
	PSI		1.000		75.00				AF2	267.10	HSW	95.22		
	SRO		1.000		60.00				MAP	297.00	VSW	1.05		
	INS		1.000		285.10				DD3	1,715.75	DFW	55.50		
	FLH		8.000		187.14				CS4	203.00	PFW	547.86		
											VFW	6.81		
											PCW	122.77		
											HFW	172.56		
											DSP	15.96		
											PSP	151.16		
											VFP	2.27		
											POL	6,002.72		
											EFP	13.76		
											RIP	92.67		
											TFP	102.80		
											IFP	404.76		
											RFP	642.54		
											ISP	77.00		
											DCP	9.57		
											HCP	77.34		
											VCP	1.17		
											EIP	0.96		
											TIP	5.76		
											DFP	17.62		
											PFP	273.93		
											ECP	0.94		
											RCP	110.88		
											TCP	6.70		
											IIP	58.38		
											VSP	1.05		
											ESP	0.89		
											TSP	6.07		
											DFB	18.50		
											PFB	273.93		
											VFB	2.27		

VILLAGE OF ROUND LAKE  
 PAYROLL REGISTER REPORT

FOR CHECK DATES 02/12/2015 TO 02/12/2015

EMPL. #	NAME	EARNINGS			TAXES		DEDUCTIONS					
		CODE	PAY RATE	HOURS	TOTAL	EMPLOYEE	EMPLOYER	CODE	EMPLOYEE	CODE	EMPLOYEE	EMPLOYER
TOTAL FICA EMPLOYEE WAGES:					121,998.36	TOTAL EMPLOYER FICA:			7,563.89			
TOTAL MEDICARE EMPLOYEE WAGES:					121,998.36	TOTAL EMPLOYER MEDICARE:			1,769.00			
TOTAL FEDERAL EMPLOYEE WAGES:					110,211.86	TOTAL EMPLOYER PENSION:			5,802.58			
TOTAL STATE EMPLOYEE WAGES:					110,211.86							
TOTAL PENSION EMPLOYEE WAGES:					119,421.91							
		TOTAL NUMBER OF EMPLOYEES:			52							
GROSS PAY:			\$126,197.69	TOTAL DEDUCTIONS:		119,240.45	NET PAY:		\$6,957.24			



VILLAGE OF ROUND LAKE  
**AGENDA ITEM SUMMARY**

**TITLE: DISPOSAL OF SURPLUS PROPERTY**

Agenda Item No. 5.3

***Executive Summary:***

The Police Department seeks permission to dispose of Village Owned surplus property through public on-line auction.

The Police and Building Departments would like to send THE FOLLOWING SURPLUS PROPERTY to auction:

- 1.) 2003 Ford Ranger Vin # 1FTYR14V93PB10402
- 2.) 2004 Dodge Intrepid Vin # 2B3HD46V44H616076
- 3.) 2005 Ford Crown Victoria Vin # 2FAFP71W55X113930
- 4.) 2005 Ford Crown Victoria Vin # 2FAFP71W75X113931

Our recommended auction service is:

***OBENAUF AUCTION SERVICE, Inc.***  
 810 Magna Drive, Round Lake, IL 60073  
 847-546-2095  
[obenaufauctions@comcast.net](mailto:obenaufauctions@comcast.net)  
[www.obenaufauctions.com](http://www.obenaufauctions.com)  
 IL Licensed Auction Firm #444.000105

***Recommended Action:***

Approve the disposal through public on-line auction of the above captioned surplus property.

<b>Committee: Police</b>		<b>Meeting Date: 02/02/2015 &amp; 2/17/2015</b>																												
<b>Lead Department: Police</b>		<b>Presenter: Michael Gillette</b>																												
<b>Item Budgeted:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A  <b>If amount requested is over budget, a detailed explanation of what account(s) the overage will be charged to will be provided in the Executive Summary or attached detail.</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Account No(s):</th> <th style="text-align: left;">Budget:</th> <th style="text-align: left;">Actual Request:</th> </tr> </thead> <tbody> <tr> <td>N/A</td> <td></td> <td></td> </tr> <tr> <td>YTD Actual</td> <td></td> <td style="text-align: right;">\$0.00</td> </tr> <tr> <td>Encumbered</td> <td></td> <td style="text-align: right;">\$0.00</td> </tr> <tr> <td>Request</td> <td></td> <td style="text-align: right;">\$0.00</td> </tr> <tr> <td style="text-align: right;">Total:</td> <td style="text-align: right;">\$0.00</td> <td style="text-align: right;">\$0.00</td> </tr> <tr> <td colspan="3"><b>Request is over/under budget:</b></td> </tr> <tr> <td style="text-align: right;">Under</td> <td colspan="2" style="text-align: center;">-</td> </tr> <tr> <td style="text-align: right;">Over</td> <td colspan="2" style="text-align: center;">-</td> </tr> </tbody> </table>	Account No(s):	Budget:	Actual Request:	N/A			YTD Actual		\$0.00	Encumbered		\$0.00	Request		\$0.00	Total:	\$0.00	\$0.00	<b>Request is over/under budget:</b>			Under	-		Over	-		
Account No(s):	Budget:	Actual Request:																												
N/A																														
YTD Actual		\$0.00																												
Encumbered		\$0.00																												
Request		\$0.00																												
Total:	\$0.00	\$0.00																												
<b>Request is over/under budget:</b>																														
Under	-																													
Over	-																													

**Ordinance 15-ORD-\_\_**

**A Ordinance Authorizing the Police Department to Dispose of Village Owned Surplus Property Through Public Auction**

**BE IT RESOLVED** by the Village President and Board of Trustees of the Village of Round

Lake authorizes as follows:

1. That the property described below is declared to be surplus property owned by the Village of Round Lake.

1. 2003 Ford Ranger            Vin # 1FTYR14V93PB10402
2. 2004 Dodge Intrepid        Vin # 2B3HD46V44H616076
3. 2005 Ford Crown Victoria    Vin # 2FAFP71W55X113930
4. 2005 Ford Crown Victoria    Vin # 2FAFP71W75X113931

2. That the surplus property described above is recommended to be sold through auction service provided by:

*OBENAUF AUCTION SERVICE, Inc.*  
810 Magna Drive, Round Lake, IL 60073  
847-546-2095

[obenaufauctions@comcast.net](mailto:obenaufauctions@comcast.net)

[www.obenaufauctions.com](http://www.obenaufauctions.com)

IL Licensed Auction Firm #444.000105 is hereby approved.

3. The Mayor, or his designee, is authorized to execute all necessary documents to carry out the purposes of this Ordinance.

**APPROVED:**

---

Daniel A. MacGillis, Village President

**ATTEST:**

---

Patricia C. Blauvelt, Village Clerk

PASSED:

APPROVED:

AYES:

NAYS:

ABSENT:



VILLAGE OF ROUND LAKE

## AGENDA ITEM SUMMARY

**TITLE: NORTHERN ILLINOIS POLICE ALARM SYSTEM  
ANNUAL MEMBERSHIP & EMERGENCY SERVICES  
TEAM ASSESSMENTS**

Agenda Item No. 5.4

***Executive Summary:***

Attached are the Northern Illinois Police Alarm System invoices for the annual membership, \$400, and the Emergency Services Team assessment, \$3,300 for the period May 1, 2015 through April 30, 2016.

NIPAS is a police mutual aid system operating in northeastern Illinois. The purpose of NIPAS is to provide law enforcement response to critical incidents. According to NIPAS, a “critical incident” is defined as, but not limited to, any incident involving attempted suicide/armed person, barricade suspect, high-risk apprehension, high-risk warrant service, hostage Incident, personal protection special assignments for dignitaries and snipers.

The NIPAS Emergency Services Team is also commonly known as the “SWAT team.”

The Round Lake Police Department has been a NIPAS member since 1998.

***Recommended Action:***

Staff recommends continued participation in NIPAS and payment of the invoice.

<b>Committee: Police</b>		<b>Meeting Date(s): 02/02/2015 &amp; 2/17/2015</b>	
<b>Lead Department: Police</b>		<b>Presenter: M. Gillette</b>	
<b>Item Budgeted:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
<b>If amount requested is over budget, a detailed explanation of what account(s) the overage will be charged to will be provided in the Executive Summary or attached detail.</b>	<b>Account(s)</b>	<b>Budget</b>	<b>Expenditure</b>
	01-40-75-77531	\$8,688.00	\$3,300.00
	Y-T-D Actual		\$295.00
	Amount Encumbered		\$0.00
	<b>Total:</b>	<b>\$8,688.00</b>	<b>\$3,595.00</b>
	<b>Request is over/under budget:</b>		
Under		\$5,093.00	
Over	-		

**RESOLUTION NO. 2015-R-\_\_\_**

**A Resolution Authorizing the Village of Round Lake Police Department's Continued Participation in the Northern Illinois Police Alarm System**

**WHEREAS**, the Northern Illinois Police Alarm System ("NIPAS") is a multi-jurisdictional law enforcement mutual aid system operating in northeastern Illinois to provide law enforcement response to critical incidents;

**WHEREAS**, the Village President and Board of Trustees find that continued participation in NIPAS is fiscally prudent and in the interest of public health, safety and welfare of the residents of the Village of Round Lake;

**NOW THEREFORE BE IT RESOLVED** by the Village President and Board of Trustees of the Village of Round Lake as follows:

**SECTION ONE:** The Village of Round Lake Police Department's continued participation in NIPAS is hereby authorized.

**SECTION TWO:** The Invoice attached hereto as Exhibit A is hereby approved.

**SECTION THREE:** The Mayor and Chief of Police are authorized to perform such other actions required to carry out the Village's participation in NIPAS and to otherwise implement this Resolution.

**APPROVED:**

\_\_\_\_\_  
Daniel A. MacGillis, Village President

**ATTEST:**

\_\_\_\_\_  
Patricia C. Blauvelt, Village Clerk

PASSED:

APPROVED:

AYES:

NAYS:

ABSENT:



Northern Illinois Police Alarm System  
P.O. Box 96  
Wheeling, IL 60090  
(847) 459-8531 • nipas@nipas.org

# Invoice

Date	Invoice No.
05/01/15	10039

Partners in Preparedness

Federal ID 36-4167206

Bill To: [Redacted]  
Village of Round Lake  
Attn: Accounts Payable  
442 N. Cedar Lake Road  
Round Lake, IL 60073

RECEIVED  
JAN 22 2015  
VILLAGE OF ROUND LAKE

Description	Quantity	Rate	Amount
Membership Assessment, May 1, 2015 to April 30, 2016, due May 1, 2015	1	400.00	400.00
<b>Total</b>			<b>\$400.00</b>

Please make checks payable to: Northern Illinois Police Alarm System.



Northern Illinois Police Alarm System  
P.O. Box 96  
Wheeling, IL 60090

(847) 459-8531 • nipas@nipas.org

Partners in Preparedness

Federal ID 36-4167206

# Invoice

Date	Invoice No.
05/01/15	10040

Bill To: [Redacted]

Village of Round Lake  
Attn: Accounts Payable  
442 N. Cedar Lake Road  
Round Lake, IL 60073

Description	Quantity	Rate	Amount
Emergency Services Team Assessment, May 1, 2015 to April 30, 2016, due May 1, 2015	1	3,300.00	3,300.00
<b>Total</b>			<b>\$3,300.00</b>

Please make checks payable to: Northern Illinois Police Alarm System.



VILLAGE OF ROUND LAKE

**AGENDA ITEM SUMMARY**

**TITLE: IGA SALT PURCHASES WITH SCHOOL DISTRICT**

**Agenda Item No. 7.1**

*Executive Summary:*

In the past there has been discussion regarding sharing services or commodities with other taxing districts. Cooperatives have been formed such as the Lake County Municipal League's Cooperative Purchasing Program Initiative whereby municipalities can receive the benefit of lower costs due to the higher volume of services or commodities requested via a formal RFP process. Lake Zurich also formed such an initiative for a Police Department Records Management System.

In other circumstance, taxing bodies should be cooperating with each other for a reduction of cost to residents, eliminate redundant services and other such options, such as just being a "good neighbor."

Currently, the School District pays \$110/ton for salt whereas the Village has a contract with Lake County for \$70/ton and with the State at \$60/ton. The school district is requesting that they be allowed to purchase salt from the Village.

Staff recommends working with the School District to allow them to purchase salt through the Village.

*Recommended Action:*

Adopt a Resolution Approving an Intergovernmental Agreement Authorizing the Round Lake School District 116 to Purchase Road Salt from the Village of Round Lake

<b>Committee:</b> -		<b>Meeting Date:</b> 1/19 & 2/17/15	
<b>Lead Department:</b> Administration		<b>Presenter:</b> Steven J. Shields, Village Administrator	
<b>Item Budgeted:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A  If amount requested is over budget, a detailed explanation of what account(s) the overage will be charged to will be provided in the Executive Summary or attached detail.	<b>Account(s)</b>	<b>Budget</b>	<b>Expenditure</b>
	XX-XX-XX-XXXXX	-	
	Item Requested		
	Y-T-D Actual		
	Amount Encumbered		
	Total:	\$0.00	\$0.00
	Request is over/under budget:		
	Under -		
	Over -		

**RESOLUTION NO. 2015-R-\_\_\_**

**A Resolution Approving an Intergovernmental Agreement Authorizing the Round Lake School District 116 to Purchase Road Salt from the Village of Round Lake**

**WHEREAS**, the Village of Round Lake desires to enter into an Intergovernmental Agreement with the Round Lake School District 116 regarding the purchase of road salt; and

**WHEREAS**, the Village President and Board of Trustees find that executing the attached Intergovernmental Agreement Between the Village of Round Lake and the Round Lake School District 116 Regarding the Purchase of Road Salt ("IGA", attached as Exhibit A) is in the interest of the public health, safety and welfare of the residents of the Village of Round Lake;

**NOW THEREFORE BE IT RESOLVED** by the Village President and Board of Trustees of the Village of Round Lake as follows:

**SECTION ONE:** The IGA attached as Exhibit A is hereby approved.

**SECTION TWO:** The Village Administrator, or his designee, is authorized to execute all documents and take all actions necessary to carry out the purpose of this Resolution.

**SECTION THREE:** This Resolution shall be in full force and effect from and after its passage.

**APPROVED:**

---

Daniel A. MacGillis, Village President

**ATTEST:**

---

Patricia C. Blauvelt, Village Clerk

PASSED:

APPROVED:

AYES:

NAYS:

ABSENT:

**Intergovernmental Agreement Between the Village of Round Lake and the Round Lake School District 116 Regarding the Purchase of Road Salt**

This Intergovernmental Agreement (referred to as the “Agreement”) is entered into this 17th day of January, 2015, between the VILLAGE OF ROUND LAKE, an Illinois municipal corporation (referred to as “Village”) and the ROUND LAKE AREA SCHOOLS COMMUNITY UNIT SCHOOL DISTRICT 116, LAKE COUNTY, a body politic and corporate of the State of Illinois municipal corporation (referred to as “School District”) (collectively “the parties”).

**RECITALS:**

**WHEREAS**, the Village and School District are public agencies within the meaning of the Illinois Intergovernmental Cooperation Act, 5 ILCS 220/1 et seq.; as authorized by Article VII, Section 10 of the 1970 Constitution of the State of Illinois; and the Illinois Constitution and the Illinois statute encourage and provide for units of local government to cooperate and to enter into intergovernmental agreements in any manner not prohibited by law or ordinance, to their mutual benefit; and

**WHEREAS**, the Village desires to assist the School District by allowing the School District to purchase rock salt from the Village’s Public Works facility for the same rate the Village purchased salt through a contract with the State of Illinois; and

**WHEREAS**, the Village and the School District have the authority under Illinois law to enter into this agreement.

**AGREEMENT:**

**NOW, THEREFORE**, in consideration of the promises and mutual covenants contained in this Agreement, the parties agree as follows:

1. The recitals set forth above are hereby incorporated into and made a part of this Agreement.

2. The School District authorizes the Village to provide rock salt to the School District for de-icing operations.
3. The Village has the right to refuse any requests for salt from the School District if the Village needs to retain salt on hand to perform de-icing operations within the Village.
4. The School District shall reimburse the Village for the rock salt charges within thirty days of the Village issuing the School District an invoice, or in no case later than April 30, 2015.
5. The Parties agree that the Village makes no warrantee or guarantee about the quality of salt it provides or its effectiveness in de-icing.
6. The Parties agree that the Village shall not be held responsible for any liability that arises, whether from intentional conduct, negligence, or any other form of conduct giving rise to liability, due to the School District's storage, use, or application of salt it receives from the Village.
7. All notices, requests and other communications under this Agreement shall be in writing and shall be deemed properly served upon delivery by hand to the party to whom it is addressed, or upon receipt, if sent, postage pre-paid by United States registered or certified mail, return receipt requested, as follows:

For Village:                   Village Clerk  
                                      Village of Round Lake  
                                      444 North Cedar Lake Road  
                                      Round Lake, IL 60073

For School District:   Assistant Superintendent of Business  
                                      Round Lake Area Schools  
                                      Community Unit School District 116  
                                      316 South Rosedale Court  
                                      Round Lake, IL 60073

8. The validity, meaning, and effect of this Agreement shall be determined in accordance with the laws of the State of Illinois applicable to intergovernmental agreements made and contracts made and to be formed in Illinois.

**IN WITNESS WHEREOF**, the parties set their hands and seals on the date written above.

**VILLAGE OF ROUND LAKE,  
an Illinois municipal corporation;**

**ROUND LAKE AREA SCHOOLS  
COMMUNITY UNIT SCHOOL  
DISTRICT 116, a  
body politic and corporate of the State of  
Illinois;**

**By:** \_\_\_\_\_

**By:** \_\_\_\_\_

**Attest:** \_\_\_\_\_

**Attest:** \_\_\_\_\_



VILLAGE OF ROUND LAKE  
**AGENDA ITEM SUMMARY**

**TITLE: AMENDMENT TO FIRE CODE**

**Agenda Item No. 7.2**

*Executive Summary:*

Approximately a month ago staff met with a business owner that was willing to purchase property and relocate to the Village of Round Lake. However, due to the significant costs for fire suppression the business owner was hesitant to move forward with the project and as of today has not purchased the property. The fire suppression cost has been brought up a number of times in the last year by other developers and business owners.

Therefore, to remain competitive with surrounding communities and to support development, staff is recommending changes to the fire code. Specifically, section 15.04.020 – amendments and revisions, “Regardless of any conditions allowed in this section, all new commercial, industrial, and residential other than R-3 uses, shall be provided with an automatic sprinkler system.” The following would be replaced without any revisions and Section 903, Automatic Sprinkler Systems of the 2006 Internal Building Code would be referenced in its entirety.

Attached is an Ordinance changing the Village Code, a memorandum from the Village Attorney, a copy of the Village’s Fire Code, Chapter 15.44 (and the area to be changed), the 2006 International Building Code Section 903 – Automatic Sprinkler Systems, and Chapter 3, Use and Occupancy Classification of the 2006 International Building Code. Such classifications in Chapter 3 clarify the type of businesses contained in the grouping of section 903.

*Recommended Action:*

Adopt an Ordinance Amending the Round Lake Village Code, 2006, as Amended, by Rescinding a Local Amendment to the Building Code Related to Auto matic Sprinkler Systems in Village Buildings.

<b>Committee:</b> -	<b>Meeting Date:</b> 1/5, 1/19, 2/2, and 2/17/15																																
<b>Lead Department:</b> Administration	<b>Presenter:</b> Steven J. Shields, Village Administrator																																
<b>Item Budgeted:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A  <b>If amount requested is over budget, a detailed explanation of what account(s) the overage will be charged to will be provided in the Executive Summary or attached detail.</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Account(s)</th> <th style="text-align: center;">Budget</th> <th style="text-align: center;">Expenditure</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">XX-XX-XX-XXXXX</td> <td style="text-align: center;">-</td> <td></td> </tr> <tr> <td>Item Requested</td> <td></td> <td></td> </tr> <tr> <td>Y-T-D Actual</td> <td></td> <td></td> </tr> <tr> <td>Amount Encumbered</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">Total:</td> <td style="text-align: right;">\$0.00</td> <td style="text-align: right;">\$0.00</td> </tr> <tr> <td colspan="3">Request is over/under budget:</td> </tr> <tr> <td style="text-align: right;">Under</td> <td colspan="2">-</td> </tr> <tr> <td style="text-align: right;">Over</td> <td colspan="2">-</td> </tr> </tbody> </table>	Account(s)	Budget	Expenditure	XX-XX-XX-XXXXX	-		Item Requested			Y-T-D Actual			Amount Encumbered						Total:	\$0.00	\$0.00	Request is over/under budget:			Under	-		Over	-			
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**ORDINANCE NO. 15-O-\_\_**

**AN ORDINANCE AMENDING THE ROUND LAKE VILLAGE CODE, 2006,  
AS AMENDED, BY RESCINDING A LOCAL AMENDMENT TO  
THE BUILDING CODE RELATED TO AUTOMATIC  
SPRINKLER SYSTEMS IN VILLAGE BUILDINGS**

WHEREAS, the Village President and Board of Trustees (hereinafter collectively referred to as the "Village Board") of the Village of Round Lake, Lake County, Illinois (hereinafter the "Village"), finds that certain amendments to the Round Lake Village Code, enacted in 2006, are not in the best interests of public health, safety, morals and welfare; and

WHEREAS, the Village Board further finds that rescinding a portion of the 2006 amendments to the Round Lake Village Code provides for the protection of the public health, safety, morals and welfare, and is otherwise in the public interest; and

**NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES** of the Village of Round Lake, Lake County, Illinois, as follows:

**SECTION 1:** The foregoing findings and recitals are hereby adopted as Section 1 of this Ordinance and are incorporated by reference as if set forth verbatim herein.

**SECTION 2:** The Municipal Code of the Village of Round Lake, as amended, shall be further amended in Chapter 15.04, Building Code Adopted, in the manner and form shown below with additions being underlined and deletions being shown in strikethrough text, so that Section 15.04.020, as it references Section 903.2.1 through Section 903.2.10.3 of the International Building Code, 2006 Edition, shall hereafter provide as follows:

**903.2.1 through 903.2.10.3 These provisions of the International Building Code, 2006 Edition, shall be readopted as though fully set forth herein.**

~~Delete this section in its entirety and substitute in its place the following:~~

~~Regardless of any conditions allowed in this section, all new commercial, industrial and residential buildings, other than R-3 uses (single family, duplex and townhouse residences), shall be provided with an automatic sprinkler system.~~

**SECTION 3:** That the Village Clerk is directed hereby to publish this Ordinance in pamphlet form, pursuant to the Statutes of the State of Illinois.

**SECTION 4:** That this Ordinance shall be in full force and effect from and after its passage, approval, and publication in the manner provided by law.

**APPROVED:**

\_\_\_\_\_  
Daniel A. MacGillis, Village President

**ATTEST:**

\_\_\_\_\_  
Patricia C. Blauvelt, Village Clerk

**PASSED:**

**APPROVED:**

**AYES:**

**NAYS:**

**ABSENT:**

# Tressler | LLP

## MEMORANDUM

**To:** Mayor MacGillis and Village Board  
**Cc:** Steve Shields, Village Administrator  
**From:** Michael F. Zimmermann and Luke Glisan  
**Date:** January 2, 2015  
**Re:** Proposed amendment to the fire suppression requirements in the Round Lake Village Code

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### Introduction

This memorandum provides relevant information for discussion at the January 5, 2015 Committee of the Whole Meeting concerning a potential amendment to the fire suppression requirements in the Round Lake Village Code. The Round Lake Village Code currently provides, in Section 15.04.020:

Regardless of any conditions allowed in this section, all new commercial, industrial, and residential other than R-3 uses (single family, duplex and townhouse residence), shall be provided with an automatic sprinkler system.

### Examples of Other Municipalities

Neighboring municipalities have a variety of differing standards for fire suppression. As you will see in the examples below, many municipalities set a square footage threshold that must first be met for fire suppression to be required. Municipalities also frequently distinguish between requirements for new construction, as opposed to requirements for existing buildings.

#### **Example 1. Round Lake Beach**

An automatic sprinkler system shall be provided throughout a fire area containing a Group A-3 or Business Group B occupancy where one of the following conditions exists:

1. The fire area exceeds 12,000 square feet (1115m<sup>2</sup>).
2. The fire area has an occupancy load of 300 or more.
3. The fire area is located on a floor other than the level of exit discharge.

An automatic sprinkler system shall be provided throughout all fire areas including basements containing a Group R-1 occupancy, R-2 occupancy, R-4 occupancy and throughout all dwelling

units in conformity with Village Ordinance #02-03-02.

**Example 2. Mundelein**

Buildings or structures which are newly constructed are required to install an NFPA 13 compliant automatic sprinkler system throughout the entire building, which shall be maintained in full operating condition at all times.

An automatic sprinkler system shall be provided in existing buildings that change from one occupancy classification to another occupancy classification, as defined in Chapter 2 of the code as follows.

From any occupancy classification to Business Group B, where one of the following conditions exists:

1. The fire area exceeds 12,000 square feet;
2. The fire area has an occupant load of 300 or more;
3. The fire area is located on a floor other than the level of exit discharge;
4. From any occupancy classification to Miscellaneous Group U.

**Exceptions:**

1. One and two family residence and accessory structures related thereto, unless specified elsewhere in this code.
2. Buildings and structures that are classified as Miscellaneous group shall not be required to install a required NFPA 13 compliant sprinkler system when all of the following are met:
  - a. Have a maximum floor area of 1000 square feet;
  - b. Are a maximum of two stories in height
  - c. Have a maximum building height of 25 feet, as measured to the average "mean" of the building or structure;
  - d. Have a minimum separation to other buildings or structures of 20 feet;
  - e. Cannot be used for storage of hazardous materials;
  - f. Shall have heat and/or smoke detectors, supervised by the Village of Mundelein Dispatch System in accordance with Section 907.2.2.

**Example 3. Village of Volo**

New construction – Automatic sprinkler systems shall be installed in all new commercial and industrial buildings of one thousand five hundred (1,500) square feet or more, gross building area. Automatic sprinkler systems shall be installed in all new health care, institutional, education, hotels, motels, dormitories, non-residential day care, and bed and breakfast facilities, and buildings with three (3) or more dwelling units regardless of size. Automatic sprinkler systems shall be installed in accordance with the National Fire Protection Association ("NFPA") standard no. 13, 2010 edition. The system shall also have the approval of the village fire code official in respect to design, installation, and number of fire zones. In the event that municipal water is not available at the time of the new construction the sprinkler systems shall be pre-piped within the building with a fire department connection and tied to the municipal

water system when it becomes available. This exception only applies to facilities amended by this ordinance.

**Existing buildings** – If an existing building is enlarged to three thousand (3000) square feet or more the building and/or the addition shall be equipped with a sprinkler system and a one hour fire rating shall protect the existing structure.

**Example 4. Wauconda**

**New construction.** Automatic sprinkler systems shall be installed in all new commercial and industrial occupancies of one thousand five hundred (1,500) square feet or more, gross building area. Automatic sprinkler systems shall be installed in all new health care, institutional, education, hotels, motels, dormitories, non-residential day care, and bed and breakfast facilities regardless of size. Automatic sprinkler systems shall be installed in accordance with the National Fire Protection Association Standard No. 13, 2002 Edition. The system shall also have the approval of the Village Fire Marshal in respect to design, installation, and number of fire zones.

**Existing buildings.** If the structure is larger than two thousand five hundred (2,500) square feet gross building area and if the structure is enlarged in any manner, a sprinkler system shall be installed.

**Committee of the Whole Discussion**

The examples above demonstrate that municipalities have discretion in establishing fire suppression standards. However, there are certain fire suppression standards that municipalities generally adhere to, such as those set forth by the National Fire Protection Association.

The Office of the Village Administrator recommends establishing a 12,000 square foot threshold as part of the Village's requirements for automatic sprinklers in existing buildings. As seen in the examples above, neighboring municipalities have adopted an identical square footage threshold as one part of a multi-factor standard to determine if a particular building needs automatic sprinklers.

Following the discussion by the Committee of the Whole, the Village's attorneys will review the proposed fire suppression standard to ensure compliance with all applicable legal guidelines.

**Chapter 15.44 - FIRE CODE ADOPTED**

**Sections:**

**15.44.010 - International Fire Code, 2006 Edition, adopted.**

That a certain document, three copies of which are on file in the office of the clerk of Round Lake, being marked and designated as the International Fire Code, 2006 Edition, as published by the International Code Council, be and is adopted as the Fire Code of the village of Round Lake, in the state of Illinois for regulating and governing the safeguarding of life and property from fire and explosion hazards arising from the storage, handling and use of hazardous substances, materials and devices, and from conditions hazardous to life or property in the occupancy of buildings and premises in as herein provided; providing for the issuance of permits and collection of fees therefore; and each and all of the regulations, provisions, penalties, conditions and terms of said Fire Code on file in the office of the village of Round Lake are referred to, adopted, and made a part hereof, as if fully set out in this chapter, with the additions, insertions, deletions and changes, if any, prescribed in Section 15.44.020 of this chapter.

*(Ord. 07-0-05 § 1 (part))*

**15.04.020 - Amendments and revisions.**

The following sections of the International Fire Code, 2006 Edition, are amended and revised as hereinafter stated:

**Section 101.1.** Insert: Village of Round Lake

**Section 109.3.** Insert: Misdemeanor, \$750, 180 days

**Section 111.4.** Insert: \$50, \$750

**Section 201.3.** Delete reference to the International Plumbing Code and replace with Illinois Plumbing Code.

**Section 903.2.1 thru Section 903.2.10.3.** Delete this section in its entirety and substitute in its place the following:

Regardless of any conditions allowed in this section, all new commercial, industrial, and residential other than R-3 uses (single family, duplex and townhouse residences), shall be provided with an automatic sprinkler system.

**Section 907.1.2.1.** Add the following to this section:

The transmission of all required automatic fire alarm signals shall be by wireless radio transmission to an approved location.

**Section 903.3.5.** Delete reference to the International Plumbing Code and replace with Illinois Plumbing Code.

**Section 912.5.** Delete reference to the International Plumbing Code and replace with Illinois Plumbing Code.

**Section 2211.2.3.** Delete reference to the International Plumbing Code and replace with Illinois Plumbing Code.

**Section 2704.2.2.6.** Delete reference to the International Plumbing Code and replace with Illinois Plumbing Code.

The geographic limits referred to in Sections 3204.3.1.1 thru 3804.2 of the 2006 International Fire Code are established as follows:

**Section 3204.3.1.1** (geographic limits in which the storage of flammable cryogenic fluids in stationary containers is prohibited): Village of Round Lake.

**Section 3404.2.9.5.1** (geographic limits in which the storage of Class I and Class II liquids in above-ground tanks outside of buildings is prohibited): Village of Round Lake.

**Section 3406.2.4.4** (geographic limits in which the storage of Class I and Class II liquids in above-ground tanks is prohibited): Village of Round Lake.

**Section 3804.2** (geographic limits in which the storage of liquefied petroleum gas is restricted for the protection of heavily populated or congested areas): Village of Round Lake.

**Chapter 45.** Delete all references to the International Plumbing Code and replace with Illinois Plumbing Code.

*(Ord. 07-0-05 § 1 (part))*

**[F] WIRELESS PROTECTION SYSTEM.** A system or a part of a system that can transmit and receive signals without the aid of wire.

**[F] ZONE.** A defined area within the protected premises. A zone can define an area from which a signal can be received, an area to which a signal can be sent or an area in which a form of control can be executed.

## SECTION 903 AUTOMATIC SPRINKLER SYSTEMS

**[F] 903.1 General.** Automatic sprinkler systems shall comply with this section.

**[F] 903.1.1 Alternative protection.** Alternative automatic fire-extinguishing systems complying with Section 904 shall be permitted in lieu of automatic sprinkler protection where recognized by the applicable standard and approved by the fire code official.

**[F] 903.2 Where required.** Approved automatic sprinkler systems in new buildings and structures shall be provided in the locations described in this section.

**Exception:** Spaces or areas in telecommunications buildings used exclusively for telecommunications equipment, associated electrical power distribution equipment, batteries and standby engines, provided those spaces or areas are equipped throughout with an automatic fire alarm system and are separated from the remainder of the building by fire barriers consisting of not less than 1-hour fire-resistance-rated walls and 2-hour fire-resistance-rated floor/ceiling assemblies.

**[F] 903.2.1 Group A.** An automatic sprinkler system shall be provided throughout buildings and portions thereof used as Group A occupancies as provided in this section. For Group A-1, A-2, A-3 and A-4 occupancies, the automatic sprinkler system shall be provided throughout the floor area where the Group A-1, A-2, A-3 or A-4 occupancy is located, and in all floors between the Group A occupancy and the level of exit discharge. For Group A-5 occupancies, the automatic sprinkler system shall be provided in the spaces indicated in Section 903.2.1.5.

**[F] 903.2.1.1 Group A-1.** An automatic sprinkler system shall be provided for Group A-1 occupancies where one of the following conditions exists:

1. The fire area exceeds 12,000 square feet (1115 m<sup>2</sup>).
2. The fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than the level of exit discharge.
4. The fire area contains a multitheater complex.

**[F] 903.2.1.2 Group A-2.** An automatic sprinkler system shall be provided for Group A-2 occupancies where one of the following conditions exists:

1. The fire area exceeds 5,000 square feet (465 m<sup>2</sup>);
2. The fire area has an occupant load of 100 or more; or

3. The fire area is located on a floor other than the level of exit discharge.

**[F] 903.2.1.3 Group A-3.** An automatic sprinkler system shall be provided for Group A-3 occupancies where one of the following conditions exists:

1. The fire area exceeds 12,000 square feet (1115 m<sup>2</sup>).
2. The fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than the level of exit discharge.

**Exception:** Areas used exclusively as participant sports areas where the main floor area is located at the same level as the level of exit discharge of the main entrance and exit.

**[F] 903.2.1.4 Group A-4.** An automatic sprinkler system shall be provided for Group A-4 occupancies where one of the following conditions exists:

1. The fire area exceeds 12,000 square feet (1115 m<sup>2</sup>).
2. The fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than the level of exit discharge.

**Exception:** Areas used exclusively as participant sports areas where the main floor area is located at the same level as the level of exit discharge of the main entrance and exit.

**[F] 903.2.1.5 Group A-5.** An automatic sprinkler system shall be provided for Group A-5 occupancies in the following areas: concession stands, retail areas, press boxes and other accessory use areas in excess of 1,000 square feet (93 m<sup>2</sup>).

**[F] 903.2.2 Group E.** An automatic sprinkler system shall be provided for Group E occupancies as follows:

1. Throughout all Group E fire areas greater than 20,000 square feet (1858 m<sup>2</sup>) in area.
2. Throughout every portion of educational buildings below the level of exit discharge.

**Exception:** An automatic sprinkler system is not required in any fire area or area below the level of exit discharge where every classroom throughout the building has at least one exterior exit door at ground level.

**[F] 903.2.3 Group F-1.** An automatic sprinkler system shall be provided throughout all buildings containing a Group F-1 occupancy where one of the following conditions exists:

1. Where a Group F-1 fire area exceeds 12,000 square feet (1115 m<sup>2</sup>);
2. Where a Group F-1 fire area is located more than three stories above grade plane; or
3. Where the combined area of all Group F-1 fire areas on all floors, including any mezzanines, exceeds 24,000 square feet (2230 m<sup>2</sup>).

[F] 903.2.3.1 Woodworking operations. An automatic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas that contain woodworking operations in excess of 2,500 square feet (232 m<sup>2</sup>) in area which generate finely divided combustible waste or use finely divided combustible materials.

[F] 903.2.4 Group H. Automatic sprinkler systems shall be provided in high-hazard occupancies as required in Sections 903.2.4.1 through 903.2.4.3.

[F] 903.2.4.1 General. An automatic sprinkler system shall be installed in Group H occupancies.

[F] 903.2.4.2 Group H-5. An automatic sprinkler system shall be installed throughout buildings containing Group H-5 occupancies. The design of the sprinkler system shall not be less than that required by this code for the occupancy hazard classifications in accordance with Table 903.2.4.2. Where the design area of the sprinkler system consists of a corridor protected by one row of sprinklers, the maximum number of sprinklers required to be calculated is 13.

[F] TABLE 903.2.4.2  
GROUP H-5 SPRINKLER DESIGN CRITERIA

LOCATION	OCCUPANCY HAZARD CLASSIFICATION
Fabrication areas	Ordinary Hazard Group 2
Service corridors	Ordinary Hazard Group 2
Storage rooms without dispensing	Ordinary Hazard Group 2
Storage rooms with dispensing	Extra Hazard Group 2
Corridors	Ordinary Hazard Group 2

[F] 903.2.4.3 Pyroxylin plastics. An automatic sprinkler system shall be provided in buildings, or portions thereof, where cellulose nitrate film or pyroxylin plastics are manufactured, stored or handled in quantities exceeding 100 pounds (45 kg).

[F] 903.2.5 Group I. An automatic sprinkler system shall be provided throughout buildings with a Group I fire area.

Exception: An automatic sprinkler system installed in accordance with Section 903.3.1.2 or 903.3.1.3 shall be allowed in Group I-1 facilities.

[F] 903.2.6 Group M. An automatic sprinkler system shall be provided throughout buildings containing a Group M occupancy where one of the following conditions exists:

1. Where a Group M fire area exceeds 12,000 square feet (1115 m<sup>2</sup>);
2. Where a Group M fire area is located more than three stories above grade plane; or
3. Where the combined area of all Group M fire areas on all floors, including any mezzanines, exceeds 24,000 square feet (2230 m<sup>2</sup>).

[F] 903.2.6.1 High-piled storage. An automatic sprinkler system shall be provided in accordance with the *International Fire Code* in all buildings of Group M where storage of merchandise is in high-piled or rack storage arrays.

[F] 903.2.7 Group R. An automatic sprinkler system installed in accordance with Section 903.3 shall be provided throughout all buildings with a Group R fire area.

[F] 903.2.8 Group S-1. An automatic sprinkler system shall be provided throughout all buildings containing a Group S-1 occupancy where one of the following conditions exists:

1. A Group S-1 fire area exceeds 12,000 square feet (1115 m<sup>2</sup>);
2. A Group S-1 fire area is located more than three stories above grade plane; or
3. The combined area of all Group S-1 fire areas on all floors, including any mezzanines, exceeds 24,000 square feet (2230 m<sup>2</sup>).

[F] 903.2.8.1 Repair garages. An automatic sprinkler system shall be provided throughout all buildings used as repair garages in accordance with Section 406, as shown:

1. Buildings two or more stories in height, including basements, with a fire area containing a repair garage exceeding 10,000 square feet (929 m<sup>2</sup>).
2. One-story buildings with a fire area containing a repair garage exceeding 12,000 square feet (1115 m<sup>2</sup>).
3. Buildings with a repair garage servicing vehicles parked in the basement.

[F] 903.2.8.2 Bulk storage of tires. Buildings and structures where the area for the storage of tires exceeds 20,000 cubic feet (566 m<sup>3</sup>) shall be equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

[F] 903.2.9 Group S-2. An automatic sprinkler system shall be provided throughout buildings classified as enclosed parking garages in accordance with Section 406.4 or where located beneath other groups.

Exception: Enclosed parking garages located beneath Group R-3 occupancies.

[F] 903.2.9.1 Commercial parking garages. An automatic sprinkler system shall be provided throughout buildings used for storage of commercial trucks or buses where the fire area exceeds 5,000 square feet (464 m<sup>2</sup>).

[F] 903.2.10 Windowless stories in all occupancies. An automatic sprinkler system shall be installed in the locations set forth in Sections 903.2.10.1 through 903.2.10.1.3.

Exception: Group R-3 and Group U.

[F] 903.2.10.1 Stories and basements without openings. An automatic sprinkler system shall be installed throughout every story or basement of all buildings where the floor area exceeds 1,500 square feet (139.4 m<sup>2</sup>) and where there is not provided at least one of the following types of exterior wall openings:

1. Openings below grade that lead directly to ground level by an exterior stairway complying with Section 1009 or an outside ramp complying with Section 1010. Openings shall be located in each 50

linear feet (15 240 mm), or fraction thereof, of exterior wall in the story on at least one side.

2. Openings entirely above the adjoining ground level totaling at least 20 square feet (1.86 m<sup>2</sup>) in each 50 linear feet (15 240 mm), or fraction thereof, of exterior wall in the story on at least one side.

[F] 903.2.10.1.1 **Opening dimensions and access.** Openings shall have a minimum dimension of not less than 30 inches (762 mm). Such openings shall be accessible to the fire department from the exterior and shall not be obstructed in a manner that fire fighting or rescue cannot be accomplished from the exterior.

[F] 903.2.10.1.2 **Openings on one side only.** Where openings in a story are provided on only one side and the opposite wall of such story is more than 75 feet (22 860 mm) from such openings, the story shall be equipped throughout with an approved automatic sprinkler system, or openings as specified above shall be provided on at least two sides of the story.

[F] 903.2.10.1.3 **Basements.** Where any portion of a basement is located more than 75 feet (22 860 mm) from openings required by Section 903.2.10.1, the basement shall be equipped throughout with an approved automatic sprinkler system.

[F] 903.2.10.2 **Rubbish and linen chutes.** An automatic sprinkler system shall be installed at the top of rubbish and linen chutes and in their terminal rooms. Chutes extending through three or more floors shall have additional sprinkler heads installed within such chutes at alternate floors. Chute sprinklers shall be accessible for servicing.

[F] 903.2.10.3 **Buildings 55 feet or more in height.** An automatic sprinkler system shall be installed throughout buildings with a floor level having an occupant load of 30 or more that is located 55 feet (16 764 mm) or more above the lowest level of fire department vehicle access.

**Exceptions:**

1. Airport control towers.
2. Open parking structures.
3. Occupancies in Group F-2.

[F] 903.2.11 **During construction.** Automatic sprinkler systems required during construction, alteration and demolition operations shall be provided in accordance with the *International Fire Code*.

[F] 903.2.12 **Other hazards.** Automatic sprinkler protection shall be provided for the hazards indicated in Sections 903.2.12.1 and 903.2.12.2.

[F] 903.2.12.1 **Ducts conveying hazardous exhausts.** Where required by the *International Mechanical Code*, automatic sprinklers shall be provided in ducts conveying hazardous exhaust, or flammable or combustible materials.

**Exception:** Ducts in which the largest cross-sectional diameter of the duct is less than 10 inches (254 mm).

[F] 903.2.12.2 **Commercial cooking operations.** An automatic sprinkler system shall be installed in commercial kitchen exhaust hood and duct system where an automatic sprinkler system is used to comply with Section 904.

[F] 903.2.13 **Other required suppression systems.** In addition to the requirements of Section 903.2, the provisions indicated in Table 903.2.13 also require the installation of a suppression system for certain buildings and areas.

[F] TABLE 903.2.13  
ADDITIONAL REQUIRED SUPPRESSION SYSTEMS

SECTION	SUBJECT
402.8	Covered malls
403.2, 403.3	High-rise buildings
404.3	Atriums
405.3	Underground structures
407.5	Group I-2
410.6	Stages
411.4	Special amusement buildings
412.2.5, 412.2.6	Aircraft hangars
415.6.2.4	Group H-2
416.4	Flammable finishes
417.4	Drying rooms
507	Unlimited area buildings
508.2	Incidental use areas
1025.6.2.3	Smoke-protected assembly seating
IFC	Sprinkler system requirements as set forth in Section 903.2.13 of the <i>International Fire Code</i>

[F] 903.3 **Installation requirements.** Automatic sprinkler systems shall be designed and installed in accordance with Sections 903.3.1 through 903.3.7.

[F] 903.3.1 **Standards.** Sprinkler systems shall be designed and installed in accordance with Section 903.3.1.1, 903.3.1.2 or 903.3.1.3.

[F] 903.3.1.1 **NFPA 13 sprinkler systems.** Where the provisions of this code require that a building or portion thereof be equipped throughout with an automatic sprinkler system in accordance with this section, sprinklers shall be installed throughout in accordance with NFPA 13 except as provided in Section.

[F] 903.3.1.1.1 **Exempt locations.** Automatic sprinklers shall not be required in the following rooms or areas where such rooms or areas are protected with an approved automatic fire detection system, in accordance with Section 907.2, that will respond to visible or invisible particles of combustion. Sprinklers shall not be omitted from any room merely because it is damp, of fire-resistance-rated construction or contains electrical equipment.

1. Any room where the application of water, or flame and water, constitutes a serious life or fire hazard.
2. Any room or space where sprinklers are considered undesirable because of the nature of the contents, when approved by the fire code official.
3. Generator and transformer rooms separated from the remainder of the building by walls and floor/ceiling or roof/ceiling assemblies having a fire-resistance rating of not less than 2 hours.
4. In rooms or areas that are of noncombustible construction with wholly noncombustible contents.

[F] 903.3.1.2 **NFPA 13R sprinkler systems.** Where allowed in buildings of Group R, up to and including four stories in height, automatic sprinkler systems shall be installed throughout in accordance with NFPA 13R.

[F] 903.3.1.2.1 **Balconies and decks.** Sprinkler protection shall be provided for exterior balconies, decks and ground floor patios of dwelling units where the building is of Type V construction. Sidewall sprinklers that are used to protect such areas shall be permitted to be located such that their deflectors are within 1 inch (25 mm) to 6 inches (152 mm) below the structural members and a maximum distance of 14 inches (356 mm) below the deck of the exterior balconies and decks that are constructed of open wood joist construction.

[F] 903.3.1.3 **NFPA 13D sprinkler systems.** Where allowed, automatic sprinkler systems in one- and two-family dwellings shall be installed throughout in accordance with NFPA 13D.

[F] 903.3.2 **Quick-response and residential sprinklers.** Where automatic sprinkler systems are required by this code, quick-response or residential automatic sprinklers shall be installed in the following areas in accordance with Section 903.3.1 and their listings:

1. Throughout all spaces within a smoke compartment containing patient sleeping units in Group I-2 in accordance with this code.
2. Dwelling units, and sleeping units in Group R and I-1 occupancies.
3. Light-hazard occupancies as defined in NFPA 13.

[F] 903.3.3 **Obstructed locations.** Automatic sprinklers shall be installed with due regard to obstructions that will delay activation or obstruct the water distribution pattern. Automatic sprinklers shall be installed in or under covered kiosks, displays, booths, concession stands, or equipment that exceeds 4 feet (1219 mm) in width. Not less than a 3-foot (914 mm) clearance shall be maintained between automatic sprinklers and the top of piles of combustible fibers.

**Exception:** Kitchen equipment under exhaust hoods protected with a fire-extinguishing system in accordance with Section 904.

[F] 903.3.4 **Actuation.** Automatic sprinkler systems shall be automatically actuated unless specifically provided for in this code.

[F] 903.3.5 **Water supplies.** Water supplies for automatic sprinkler systems shall comply with this section and the standards referenced in Section 903.3.1. The potable water supply shall be protected against backflow in accordance with the requirements of this section and the *International Plumbing Code*.

[F] 903.3.5.1 **Domestic services.** Where the domestic service provides the water supply for the automatic sprinkler system, the supply shall be in accordance with this section.

[F] 903.3.5.1.1 **Limited area sprinkler systems.** Limited area sprinkler systems serving fewer than 20 sprinklers on any single connection are permitted to be connected to the domestic service where a wet automatic standpipe is not available. Limited area sprinkler systems connected to domestic water supplies shall comply with each of the following requirements:

1. Valves shall not be installed between the domestic water riser control valve and the sprinklers.

**Exception:** An approved indicating control valve supervised in the open position in accordance with Section 903.4.

2. The domestic service shall be capable of supplying the simultaneous domestic demand and the sprinkler demand required to be hydraulically calculated by NFPA 13, NFPA 13R or NFPA 13D.

[F] 903.3.5.1.2 **Residential combination services.** A single combination water supply shall be allowed provided that the domestic demand is added to the sprinkler demand as required by NFPA 13R.

[F] 903.3.5.2 **Secondary water supply.** A secondary on-site water supply equal to the hydraulically calculated sprinkler demand, including the hose stream requirement, shall be provided for high-rise buildings in Seismic Design Category C, D, E or F as determined by this code. The secondary water supply shall have a duration of not less than 30 minutes as determined by the occupancy hazard classification in accordance with NFPA 13.

**Exception:** Existing buildings.

[F] 903.3.6 **Hose threads.** Fire hose threads and fittings used in connection with automatic sprinkler systems shall be as prescribed by the fire code official.

[F] 903.4 **Sprinkler system monitoring and alarms.** All valves controlling the water supply for automatic sprinkler sys-

tems, pumps, tanks, water levels and temperatures, critical air pressures and water-flow switches on all sprinkler systems shall be electrically supervised.

**Exceptions:**

1. Automatic sprinkler systems protecting one- and two-family dwellings.
2. Limited area systems serving fewer than 20 sprinklers.
3. Automatic sprinkler systems installed in accordance with NFPA 13R where a common supply main is used to supply both domestic water and the automatic sprinkler systems and a separate shutoff valve for the automatic sprinkler system is not provided.
4. Jockey pump control valves that are sealed or locked in the open position.
5. Control valves to commercial kitchen hoods, paint spray booths or dip tanks that are sealed or locked in the open position.
6. Valves controlling the fuel supply to fire pump engines that are sealed or locked in the open position.
7. Trim valves to pressure switches in dry, preaction and deluge sprinkler systems that are sealed or locked in the open position.

[F] 903.4.1 **Signals.** Alarm, supervisory and trouble signals shall be distinctly different and automatically transmitted to an approved central station, remote supervising station or proprietary supervising station as defined in NFPA 72 or, when approved by the fire code official, shall sound an audible signal at a constantly attended location.

**Exceptions:**

1. Underground key or hub valves in roadway boxes provided by the municipality or public utility are not required to be monitored.
2. Backflow prevention device test valves located in limited area sprinkler system supply piping shall be locked in the open position. In occupancies required to be equipped with a fire alarm system, the backflow preventer valves shall be electrically supervised by a tamper switch installed in accordance with NFPA 72 and separately annunciated.

[F] 903.4.2 **Alarms.** Approved audible devices shall be connected to every automatic sprinkler system. Such sprinkler water-flow alarm devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. Alarm devices shall be provided on the exterior of the building in an approved location. Where a fire alarm system is installed, actuation of the automatic sprinkler system shall actuate the building fire alarm system.

[F] 903.4.3 **Floor control valves.** Approved supervised indicating control valves shall be provided at the point of connection to the riser on each floor in high-rise buildings.

[F] 903.5 **Testing and maintenance.** Sprinkler systems shall be tested and maintained in accordance with the *International Fire Code*.

**SECTION 904  
ALTERNATIVE AUTOMATIC  
FIRE-EXTINGUISHING SYSTEMS**

[F] 904.1 **General.** Automatic fire-extinguishing systems, other than automatic sprinkler systems, shall be designed, installed, inspected, tested and maintained in accordance with the provisions of this section and the applicable referenced standards.

[F] 904.2 **Where required.** Automatic fire-extinguishing systems installed as an alternative to the required automatic sprinkler systems of Section 903 shall be approved by the fire code official. Automatic fire-extinguishing systems shall not be considered alternatives for the purposes of exceptions or reductions allowed by other requirements of this code.

[F] 904.2.1 **Commercial hood and duct systems.** Each required commercial kitchen exhaust hood and duct system required by the *International Fire Code* or the *International Mechanical Code* to have a Type I hood shall be protected with an approved automatic fire-extinguishing system installed in accordance with this code.

[F] 904.3 **Installation.** Automatic fire-extinguishing systems shall be installed in accordance with this section.

[F] 904.3.1 **Electrical wiring.** Electrical wiring shall be in accordance with the *ICC Electrical Code*.

[F] 904.3.2 **Actuation.** Automatic fire-extinguishing systems shall be automatically actuated and provided with a manual means of actuation in accordance with Section 904.11.1.

[F] 904.3.3 **System interlocking.** Automatic equipment interlocks with fuel shutoffs, ventilation controls, door closers, window shutters, conveyor openings, smoke and heat vents and other features necessary for proper operation of the fire-extinguishing system shall be provided as required by the design and installation standard utilized for the hazard.

[F] 904.3.4 **Alarms and warning signs.** Where alarms are required to indicate the operation of automatic fire-extinguishing systems, distinctive audible and visible alarms and warning signs shall be provided to warn of pending agent discharge. Where exposure to automatic-extinguishing agents poses a hazard to persons and a delay is required to ensure the evacuation of occupants before agent discharge, a separate warning signal shall be provided to alert occupants once agent discharge has begun. Audible signals shall be in accordance with Section 907.9.2.

[F] 904.3.5 **Monitoring.** Where a building fire alarm system is installed, automatic fire-extinguishing systems shall be monitored by the building fire alarm system in accordance with NFPA 72.

[F] 904.4 **Inspection and testing.** Automatic fire-extinguishing systems shall be inspected and tested in accordance with the provisions of this section prior to acceptance.

[F] 904.4.1 **Inspection.** Prior to conducting final acceptance tests, the following items shall be inspected:

1. Hazard specification for consistency with design hazard.

## CHAPTER 3

# USE AND OCCUPANCY CLASSIFICATION

### SECTION 301 GENERAL

**301.1 Scope.** The provisions of this chapter shall control the classification of all buildings and structures as to use and occupancy.

### SECTION 302 CLASSIFICATION

**302.1 General.** Structures or portions of structures shall be classified with respect to occupancy in one or more of the groups listed below. A room or space that is intended to be occupied at different times for different purposes shall comply with all of the requirements that are applicable to each of the purposes for which the room or space will be occupied. Structures with multiple occupancies or uses shall comply with Section 508. Where a structure is proposed for a purpose that is not specifically provided for in this code, such structure shall be classified in the group that the occupancy most nearly resembles, according to the fire safety and relative hazard involved.

1. Assembly (see Section 303): Groups A-1, A-2, A-3, A-4 and A-5
2. Business (see Section 304): Group B
3. Educational (see Section 305): Group E
4. Factory and Industrial (see Section 306): Groups F-1 and F-2
5. High Hazard (see Section 307): Groups H-1, H-2, H-3, H-4 and H-5
6. Institutional (see Section 308): Groups I-1, I-2, I-3 and I-4
7. Mercantile (see Section 309): Group M
8. Residential (see Section 310): Groups R-1, R-2, R-3 and R-4
9. Storage (see Section 311): Groups S-1 and S-2
10. Utility and Miscellaneous (see Section 312): Group U

### SECTION 303 ASSEMBLY GROUP A

**303.1 Assembly Group A.** Assembly Group A occupancy includes, among others, the use of a building or structure, or a portion thereof, for the gathering of persons for purposes such as civic, social or religious functions; recreation, food or drink consumption; or awaiting transportation.

#### Exceptions:

1. A building used for assembly purposes with an occupant load of less than 50 persons shall be classified as a Group B occupancy.

2. A room or space used for assembly purposes with an occupant load of less than 50 persons and accessory to another occupancy shall be classified as a Group B occupancy or as part of that occupancy.
3. A room or space used for assembly purposes that is less than 750 square feet (70 m<sup>2</sup>) in area and is accessory to another occupancy shall be classified as a Group B occupancy or as part of that occupancy.

Assembly occupancies shall include the following:

**A-1 Assembly uses, usually with fixed seating, intended for the production and viewing of the performing arts or motion pictures including, but not limited to:**

Motion picture theaters  
Symphony and concert halls  
Television and radio studios admitting an audience  
Theaters

**A-2 Assembly uses intended for food and/or drink consumption including, but not limited to:**

Banquet halls  
Night clubs  
Restaurants  
Taverns and bars

**A-3 Assembly uses intended for worship, recreation or amusement and other assembly uses not classified elsewhere in Group A including, but not limited to:**

Amusement arcades  
Art galleries  
Bowling alleys  
Places of religious worship  
Community halls  
Courtrooms  
Dance halls (not including food or drink consumption)  
Exhibition halls  
Funeral parlors  
Gymnasiums (without spectator seating)  
Indoor swimming pools (without spectator seating)  
Indoor tennis courts (without spectator seating)  
Lecture halls  
Libraries  
Museums  
Waiting areas in transportation terminals  
Pool and billiard parlors

**A-4 Assembly uses intended for viewing of indoor sporting events and activities with spectator seating including, but not limited to:**

Arenas  
Skating rinks  
Swimming pools  
Tennis courts

## USE AND OCCUPANCY CLASSIFICATION

**A-5 Assembly uses intended for participation in or viewing outdoor activities including, but not limited to:**

- Amusement park structures
- Bleachers
- Grandstands
- Stadiums

### SECTION 304 BUSINESS GROUP B

**304.1 Business Group B.** Business Group B occupancy includes, among others, the use of a building or structure, or a portion thereof, for office, professional or service-type transactions, including storage of records and accounts. Business occupancies shall include, but not be limited to, the following:

- Airport traffic control towers
- Animal hospitals, kennels and pounds
- Banks
- Barber and beauty shops
- Car wash
- Civic administration
- Clinic—outpatient
- Dry cleaning and laundries: pick-up and delivery stations and self-service
- Educational occupancies for students above the 12th grade
- Electronic data processing
- Laboratories: testing and research
- Motor vehicle showrooms
- Post offices
- Print shops
- Professional services (architects, attorneys, dentists, physicians, engineers, etc.)
- Radio and television stations
- Telephone exchanges
- Training and skill development not within a school or academic program

### SECTION 305 EDUCATIONAL GROUP E

**305.1 Educational Group E.** Educational Group E occupancy includes, among others, the use of a building or structure, or a portion thereof, by six or more persons at any one time for educational purposes through the 12th grade. Religious educational rooms and religious auditoriums, which are accessory to places of religious worship in accordance with Section 508.3.1 and have occupant loads of less than 100, shall be classified as A-3 occupancies.

**305.2 Day care.** The use of a building or structure, or portion thereof, for educational, supervision or personal care services for more than five children older than 2½ years of age, shall be classified as a Group E occupancy.

### SECTION 306 FACTORY GROUP F

**306.1 Factory Industrial Group F.** Factory Industrial Group F occupancy includes, among others, the use of a building or

structure, or a portion thereof, for assembling, disassembling, fabricating, finishing, manufacturing, packaging, repair or processing operations that are not classified as a Group H hazardous or Group S storage occupancy.

**306.2 Factory Industrial F-1 Moderate-hazard Occupancy.** Factory industrial uses which are not classified as Factory Industrial F-2 Low Hazard shall be classified as F-1 Moderate Hazard and shall include, but not be limited to, the following:

- Aircraft
- Appliances
- Athletic equipment
- Automobiles and other motor vehicles
- Bakeries
- Beverages; over 12-percent alcohol content
- Bicycles
- Boats
- Brooms or brushes
- Business machines
- Cameras and photo equipment
- Canvas or similar fabric
- Carpets and rugs (includes cleaning)
- Clothing
- Construction and agricultural machinery
- Disinfectants
- Dry cleaning and dyeing
- Electric generation plants
- Electronics
- Engines (including rebuilding)
- Food processing
- Furniture
- Hemp products
- Jute products
- Laundries
- Leather products
- Machinery
- Metals
- Millwork (sash & door)
- Motion pictures and television filming (without spectators)
- Musical instruments
- Optical goods
- Paper mills or products
- Photographic film
- Plastic products
- Printing or publishing
- Recreational vehicles
- Refuse incineration
- Shoes
- Soaps and detergents
- Textiles
- Tobacco
- Trailers
- Upholstering
- Wood; distillation
- Woodworking (cabinet)

**306.3 Factory Industrial F-2 Low-hazard Occupancy.** Factory industrial uses that involve the fabrication or manufacturing of noncombustible materials which during finishing, packing or processing do not involve a significant fire hazard

shall be classified as F-2 occupancies and shall include, but not be limited to, the following:

Beverages; up to and including 12-percent alcohol content  
 Brick and masonry  
 Ceramic products  
 Foundries  
 Glass products  
 Gypsum  
 Ice  
 Metal products (fabrication and assembly)

### SECTION 307 HIGH-HAZARD GROUP H

[F] 307.1 High-hazard Group H. High-hazard Group H occupancy includes, among others, the use of a building or structure, or a portion thereof, that involves the manufacturing, processing, generation or storage of materials that constitute a physical or health hazard in quantities in excess of those allowed in control areas constructed and located as required in Section 414. Hazardous uses are classified in Groups H-1, H-2, H-3, H-4 and H-5 and shall be in accordance with this section, the requirements of Section 415 and the *International Fire Code*.

Exceptions: The following shall not be classified in Group H, but shall be classified in the occupancy that they most nearly resemble:

1. Buildings and structures that contain not more than the maximum allowable quantities per control area of hazardous materials as shown in Tables 307.1(1) and 307.1(2), provided that such buildings are maintained in accordance with the *International Fire Code*.
2. Buildings utilizing control areas in accordance with Section 414.2 that contain not more than the maximum allowable quantities per control area of hazardous materials as shown in Tables 307.1(1) and 307.1(2).
3. Buildings and structures occupied for the application of flammable finishes, provided that such buildings or areas conform to the requirements of Section 416 and the *International Fire Code*.
4. Wholesale and retail sales and storage of flammable and combustible liquids in mercantile occupancies conforming to the *International Fire Code*.
5. Closed piping containing flammable or combustible liquids or gases utilized for the operation of machinery or equipment.
6. Cleaning establishments that utilize combustible liquid solvents having a flash point of 140°F (60°C) or higher in closed systems employing equipment listed by an approved testing agency, provided that this occupancy is separated from all other areas of the building by 1-hour fire barriers or 1-hour horizontal assemblies or both.
7. Cleaning establishments that utilize a liquid solvent having a flash point at or above 200°F (93°C).
8. Liquor stores and distributors without bulk storage.
9. Refrigeration systems.
10. The storage or utilization of materials for agricultural purposes on the premises.
11. Stationary batteries utilized for facility emergency power, uninterrupted power supply or telecommunication facilities, provided that the batteries are provided with safety venting caps and ventilation is provided in accordance with the *International Mechanical Code*.
12. Corrosives shall not include personal or household products in their original packaging used in retail display or commonly used building materials.
13. Buildings and structures occupied for aerosol storage shall be classified as Group S-1, provided that such buildings conform to the requirements of the *International Fire Code*.
14. Display and storage of nonflammable solid and nonflammable or noncombustible liquid hazardous materials in quantities not exceeding the maximum allowable quantity per control area in Group M or S occupancies complying with Section 414.2.5.
15. The storage of black powder, smokeless propellant and small arms primers in Groups M and R-3 and special industrial explosive devices in Groups B, F, M and S, provided such storage conforms to the quantity limits and requirements prescribed in the *International Fire Code*.

307.1.1 Hazardous materials. Hazardous materials in any quantity shall conform to the requirements of this code, including Section 414, and the *International Fire Code*.

[F] 307.2 Definitions. The following words and terms shall, for the purposes of this section and as used elsewhere in this code, have the meanings shown herein.

**AEROSOL.** A product that is dispensed from an aerosol container by a propellant.

Aerosol products shall be classified by means of the calculation of their chemical heats of combustion and shall be designated Level 1, 2 or 3.

**Level 1 aerosol products.** Those with a total chemical heat of combustion that is less than or equal to 8,600 British thermal units per pound (Btu/lb) (20 kJ/g).

**Level 2 aerosol products.** Those with a total chemical heat of combustion that is greater than 8,600 Btu/lb (20 kJ/g), but less than or equal to 13,000 Btu/lb (30 kJ/g).

**Level 3 aerosol products.** Those with a total chemical heat of combustion that is greater than 13,000 Btu/lb (30 kJ/g).

**AEROSOL CONTAINER.** A metal can or a glass or plastic bottle designed to dispense an aerosol. Metal cans shall be limited to a maximum size of 33.8 fluid ounces (1,000 ml). Glass or plastic bottles shall be limited to a maximum size of 4 fluid ounces (118 ml).

**BALED COTTON.** A natural seed fiber wrapped in and secured with industry accepted materials, usually consisting of

burdap, woven polypropylene, polyethylene or cotton or sheet polyethylene, and secured with steel, synthetic or wire bands or wire; also includes linters (lint removed from the cottonseed) and motes (residual materials from the ginning process).

**BALED COTTON, DENSELY PACKED.** Cotton made into banded bales with a packing density of at least 22 pounds per cubic foot (360 kg/m<sup>3</sup>), and dimensions complying with the following: a length of 55 inches (1397 ± 20 mm), a width of 21 inches (533.4 ± 20 mm) and a height of 27.6 to 35.4 inches (701 to 899 mm).

**BARRICADE.** A structure that consists of a combination of walls, floor and roof, which is designed to withstand the rapid release of energy in an explosion and which is fully confined, partially vented or fully vented; or other effective method of shielding from explosive materials by a natural or artificial barrier.

**Artificial barricade.** An artificial mound or revetment a minimum thickness of 3 feet (914 mm).

**Natural barricade.** Natural features of the ground, such as hills, or timber of sufficient density that the surrounding exposures that require protection cannot be seen from the magazine or building containing explosives when the trees are bare of leaves.

**BOILING POINT.** The temperature at which the vapor pressure of a liquid equals the atmospheric pressure of 14.7 pounds per square inch (psi) (101 kPa) gage or 760 mm of mercury. Where an accurate boiling point is unavailable for the material in question, or for mixtures which do not have a constant boiling point, for the purposes of this classification, the 20-percent evaporated point of a distillation performed in accordance with ASTM D 86 shall be used as the boiling point of the liquid.

**CLOSED SYSTEM.** The use of a solid or liquid hazardous material involving a closed vessel or system that remains closed during normal operations where vapors emitted by the product are not liberated outside of the vessel or system and the product is not exposed to the atmosphere during normal operations; and all uses of compressed gases. Examples of closed systems for solids and liquids include product conveyed through a piping system into a closed vessel, system or piece of equipment.

**COMBUSTIBLE DUST.** Finely divided solid material that is 420 microns or less in diameter and which, when dispersed in air in the proper proportions, could be ignited by a flame, spark or other source of ignition. Combustible dust will pass through a U.S. No. 40 standard sieve.

**COMBUSTIBLE FIBERS.** Readily ignitable and free-burning materials in a fibrous or shredded form, such as cocoa fiber, cloth, cotton, excelsior, hay, hemp, henequen,istle, jute, kapok, oakum, rags, sisal, Spanish moss, straw, tow, wastepaper, certain synthetic fibers or other like materials. This definition does not include densely packed baled cotton.

**COMBUSTIBLE LIQUID.** A liquid having a closed cup flash point at or above 100°F (38°C). Combustible liquids shall be subdivided as follows:

**Class II.** Liquids having a closed cup flash point at or above 100°F (38°C) and below 140°F (60°C).

**Class IIIA.** Liquids having a closed cup flash point at or above 140°F (60°C) and below 200°F (93°C).

**Class IIIB.** Liquids having a closed cup flash point at or above 200°F (93°C).

The category of combustible liquids does not include compressed gases or cryogenic fluids.

**COMPRESSED GAS.** A material, or mixture of materials which:

1. Is a gas at 68°F (20°C) or less at 14.7 pounds per square inch atmosphere (psia) (101 kPa) of pressure; and
2. Has a boiling point of 68°F (20°C) or less at 14.7 psia (101 kPa) which is either liquefied, nonliquefied or in solution, except those gases which have no other health- or physical-hazard properties are not considered to be compressed until the pressure in the packaging exceeds 41 psia (282 kPa) at 68°F (20°C).

The states of a compressed gas are categorized as follows:

1. Nonliquefied compressed gases are gases, other than those in solution, which are in a packaging under the charged pressure and are entirely gaseous at a temperature of 68°F (20°C).
2. Liquefied compressed gases are gases that, in a packaging under the charged pressure, are partially liquid at a temperature of 68°F (20°C).
3. Compressed gases in solution are nonliquefied gases that are dissolved in a solvent.
4. Compressed gas mixtures consist of a mixture of two or more compressed gases contained in a packaging, the hazard properties of which are represented by the properties of the mixture as a whole.

**CONTROL AREA.** Spaces within a building where quantities of hazardous materials not exceeding the maximum allowable quantities per control area are stored, dispensed, used or handled. See also the definition of "Outdoor control area" in the *International Fire Code*.

**CORROSIVE.** A chemical that causes visible destruction of, or irreversible alterations in, living tissue by chemical action at the point of contact. A chemical shall be considered corrosive if, when tested on the intact skin of albino rabbits by the method described in DOTn 49 CFR, Part 173.137, such a chemical destroys or changes irreversibly the structure of the tissue at the point of contact following an exposure period of 4 hours. This term does not refer to action on inanimate surfaces.

**CRYOGENIC FLUID.** A liquid having a boiling point lower than -150°F (-101°C) at 14.7 pounds per square inch atmosphere (psia) (an absolute pressure of 101 kPa).

**DAY BOX.** A portable magazine designed to hold explosive materials constructed in accordance with the requirements for a Type 3 magazine as defined and classified in Chapter 33 of the *International Fire Code*.

**[F] TABLE 307.1(1)  
MAXIMUM ALLOWABLE QUANTITY PER CONTROL AREA OF HAZARDOUS MATERIALS POSING A PHYSICAL HAZARD<sup>a, b</sup>**

MATERIAL	CLASS	GROUP WHEN THE MAXIMUM ALLOWABLE QUANTITY IS EXCEEDED	STORAGE <sup>c</sup>			USE-CLOSED SYSTEMS <sup>d</sup>		
			Solid pounds (cubic feet)	Liquid gallons (pounds)	Gas (cubic feet at NTP)	Solid pounds (cubic feet)	Liquid gallons (pounds)	Gas (cubic feet at NTP)
Combustible liquid <sup>e, i</sup>	II IIIA IIIB	H-2 or H-3 H-2 or H-3 N/A	N/A	120 <sup>d, e</sup> 330 <sup>d, e</sup> 13,200 <sup>d, f</sup>	N/A	N/A	120 <sup>d</sup> 330 <sup>d</sup> 13,200 <sup>d</sup>	N/A
Combustible fiber	Loose baled <sup>g</sup>	H-3	(100) (1,000)	N/A	N/A	(100) (1,000)	N/A	N/A
Consumer fireworks (Class C, Common)	1.4G	H-3	125 <sup>d, e, 1</sup>	N/A	N/A	N/A	N/A	N/A
Cryogenics, flammable	N/A	H-2	N/A	45 <sup>d</sup>	N/A	N/A	45 <sup>d</sup>	N/A
Cryogenics, oxidizing	N/A	H-3	N/A	45 <sup>d</sup>	N/A	N/A	45 <sup>d</sup>	N/A
Explosives	Division 1.1	H-1	1 <sup>e, z</sup>	(1) <sup>e, z</sup>	N/A	0.25 <sup>z</sup>	(0.25) <sup>z</sup>	N/A
	Division 1.2	H-1	1 <sup>e, z</sup>	(1) <sup>e, z</sup>	N/A	0.25 <sup>z</sup>	(0.25) <sup>z</sup>	N/A
	Division 1.3	H-1 or 2	5 <sup>e, z</sup>	(5) <sup>e, z</sup>	N/A	1 <sup>z</sup>	(1) <sup>z</sup>	N/A
	Division 1.4	H-3	50 <sup>e, z</sup>	(50) <sup>e, z</sup>	N/A	50 <sup>z</sup>	(50) <sup>z</sup>	N/A
	Division 1.4G	H-3	125 <sup>d, e, 1</sup>	N/A	N/A	N/A	N/A	N/A
	Division 1.5 Division 1.6	H-1 H-1	1 <sup>e, z</sup> 1 <sup>d, e, z</sup>	(1) <sup>e, z</sup> N/A	N/A N/A	0.25 <sup>z</sup> N/A	(0.25) <sup>z</sup> N/A	N/A N/A
Flammable gas	Gaseous liquefied	H-2	N/A	N/A 30 <sup>d, e</sup>	1,000 <sup>d, e</sup> N/A	N/A	N/A 30 <sup>d, e</sup>	1,000 <sup>d, e</sup> N/A
Flammable liquid <sup>f</sup>	1A 1B and 1C	H-2 or H-3	N/A	30 <sup>d, e</sup> 120 <sup>d, e</sup>	N/A	N/A	30 <sup>d</sup> 120 <sup>d</sup>	N/A
Combination flammable liquid (1A, 1B, 1C)	N/A	H-2 or H-3	N/A	120 <sup>d, e, h</sup>	N/A	N/A	120 <sup>d, h</sup>	N/A
Flammable solid	N/A	H-3	125 <sup>d, o</sup>	N/A	N/A	125 <sup>d</sup>	N/A	N/A
Organic peroxide	UD	H-1	1 <sup>e, z</sup>	(1) <sup>e, z</sup>	N/A	0.25 <sup>z</sup>	(0.25) <sup>z</sup>	N/A
	I	H-2	5 <sup>d, e</sup>	(5) <sup>d, e</sup>	N/A	1 <sup>z</sup>	(1) <sup>z</sup>	N/A
	II	H-3	50 <sup>d, e</sup>	(50) <sup>d, e</sup>	N/A	50 <sup>d</sup>	(50) <sup>d</sup>	N/A
	III	H-3	125 <sup>d, o</sup>	(125) <sup>d, o</sup>	N/A	125 <sup>d</sup>	(125) <sup>d</sup>	N/A
	IV V	N/A N/A	NL NL	NL NL	NL NL	N/A N/A	N/L N/L	N/L N/L
Oxidizer	4	H-1	1 <sup>e, z</sup>	(1) <sup>e, z</sup>	N/A	0.25 <sup>z</sup>	(0.25) <sup>z</sup>	N/A
	3 <sup>z</sup>	H-2 or H-3	10 <sup>d, e</sup>	(10) <sup>d, e</sup>	N/A	2 <sup>z</sup>	(2) <sup>z</sup>	N/A
	2	H-3	250 <sup>d, e</sup>	(250) <sup>d, e</sup>	N/A	250 <sup>d</sup>	(250) <sup>d</sup>	N/A
	1	N/A	4,000 <sup>d, f</sup>	(4,000) <sup>d, f</sup>	N/A	4,000 <sup>d</sup>	(4,000) <sup>d</sup>	N/A
Oxidizing gas	Gaseous liquefied	H-3	N/A N/A	N/A 15 <sup>d, e</sup>	1,500 <sup>d, e</sup> N/A	N/A	N/A 15 <sup>d, e</sup>	1,500 <sup>d, e</sup> N/A

(continued)

(F) TABLE 307.1(1)—continued  
 MAXIMUM ALLOWABLE QUANTITY PER CONTROL AREA OF HAZARDOUS MATERIALS POSING A PHYSICAL HAZARD<sup>a,1</sup>

MATERIAL	CLASS	GROUP WHEN THE MAXIMUM ALLOWABLE QUANTITY IS EXCEEDED	STORAGE <sup>b</sup>			USE-CLOSED SYSTEMS <sup>b</sup>		
			Solid pounds (cubic feet)	Liquid gallons (pounds)	Gas (cubic feet at NTP)	Solid pounds (cubic feet)	Liquid gallons (pounds)	Gas (cubic feet at NTP)
Pyrophoric material	N/A	H-2	4 <sup>a, f</sup>	(4) <sup>a, f</sup>	50 <sup>a, f</sup>	1 <sup>f</sup>	(1) <sup>f</sup>	10 <sup>a, f</sup>
Unstable (reactive)	4	H-1	1 <sup>a, f</sup>	(1) <sup>a, f</sup>	10 <sup>a, f</sup>	0.25 <sup>a</sup>	(0.25) <sup>a</sup>	2 <sup>a, f</sup>
	3	H-1 or H-2	5 <sup>a, c</sup>	(5) <sup>a, c</sup>	50 <sup>a, c</sup>	1 <sup>d</sup>	(1)	10 <sup>a, c</sup>
	2	H-3	50 <sup>a, c</sup>	(50) <sup>a, c</sup>	250 <sup>a, c</sup>	50 <sup>d</sup>	(50) <sup>d</sup>	250 <sup>a, c</sup>
	1	N/A	NL	NL	N/L	NL	N/L	NL
Water reactive	3	H-2	5 <sup>a, f</sup>	(5) <sup>a, f</sup>	N/A	5 <sup>d</sup>	(5) <sup>d</sup>	N/A
	2	H-3	50 <sup>a, f</sup>	(50) <sup>a, f</sup>	N/A	50 <sup>d</sup>	(50) <sup>d</sup>	N/A
	1	N/A	NL	NL	N/A	NL	NL	N/A

For SI: 1 cubic foot = 0.028 m<sup>3</sup>, 1 pound = 0.454 kg, 1 gallon = 3.785 L.

NL = Not Limited; N/A = Not Applicable; UD = Unclassified Detonable

a. For use of control areas, see Section 414.2.

b. The aggregate quantity in use and storage shall not exceed the quantity listed for storage.

c. The quantities of alcoholic beverages in retail and wholesale sales occupancies shall not be limited providing the liquids are packaged in individual containers not exceeding 1.3 l occupancies, the quantities of medicines, foodstuffs, consumer or industrial products, and cosmetics containing not more than 50 percent by volume of water-miscible liquids will being flammable, shall not be limited, provided that such materials are packaged in individual containers not exceeding 1.3 gallons.

d. Maximum allowable quantities shall be increased 100 percent in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1. Where both notes shall be applied accumulatively.

e. Maximum allowable quantities shall be increased 100 percent when stored in approved storage cabinets, dry boxes, gas cabinets, exhausted enclosures or safety cans. Where both notes shall be applied accumulatively.

f. The permitted quantities shall not be limited in a building equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

g. Permitted only in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

h. Containing not more than the maximum allowable quantity per control area of Class IA, IB or IC flammable liquids.

i. Inside a building, the maximum capacity of a combustible liquid storage system that is connected to a fuel-oil piping system shall be 660 gallons provided such system complies with

j. Quantities in parenthesis indicate quantity units in parenthesis at the head of each column.

k. A maximum quantity of 200 pounds of solid or 20 gallons of liquid Class 3 oxidizers is allowed when such materials are necessary for maintenance purposes, operation or saniters and the manner of storage shall be approved.

l. Net weight of the pyrotechnic composition of the fireworks. Where the net weight of the pyrotechnic composition of the fireworks is not known, 25 percent of the gross weight of shall be used.

m. For gallons of liquids, divide the amount in pounds by 10 in accordance with Section 2703.1.2 of the *International Fire Code*.

n. For storage and display quantities in Group M and storage quantities in Group S occupancies complying with Section 414.2.4, see Tables 414.2.5(1) and 414.2.5(2).

o. Densely packed baled cotton that complies with the packing requirements of ISO 8115 shall not be included in this material class.

p. The following shall not be included in determining the maximum allowable quantities:

1. Liquid or gaseous fuel in fuel tanks on vehicles.
2. Liquid or gaseous fuel in fuel tanks on motorized equipment operated in accordance with this code.
3. Gaseous fuels in piping systems and fixed appliances regulated by the *International Fuel Gas Code*.
4. Liquid fuels in piping systems and fixed appliances regulated by the *International Mechanical Code*.

[F] TABLE 307.1(2)  
 MAXIMUM ALLOWABLE QUANTITY PER CONTROL AREA OF HAZARDOUS MATERIAL POSING A HEALTH HAZARD<sup>a-c</sup>

MATERIAL	STORAGE <sup>d</sup>			USE-CLOSED SYSTEMS <sup>e</sup>			USE-OPEN SYSTEMS <sup>e</sup>	
	Solid pounds <sup>f</sup>	Liquid gallons (pounds) <sup>f</sup>	Gas (cubic feet at NTP) <sup>f</sup>	Solid pounds <sup>f</sup>	Liquid gallons (pounds) <sup>f</sup>	Gas (cubic feet at NTP) <sup>f</sup>	Solid pounds <sup>f</sup>	Liquid gallons (pounds) <sup>f</sup>
Corrosive	5,000	500	810 <sup>g</sup>	5,000	500	810 <sup>g</sup>	1,000	100
Highly toxic	10	(10) <sup>j</sup>	20 <sup>h</sup>	10	(10) <sup>j</sup>	20 <sup>h</sup>	3	(3) <sup>j</sup>
Toxic	500	(500) <sup>j</sup>	810 <sup>f</sup>	500	(500) <sup>j</sup>	810 <sup>f</sup>	125	(125) <sup>j</sup>

For SI: 1 cubic foot = 0.028 m<sup>3</sup>, 1 pound = 0.454 kg, 1 gallon = 3.785 L.

a. For use of control areas, see Section 414.2.

b. In retail and wholesale sales occupancies, the quantities of medicines, foodstuffs, consumer or industrial products, and cosmetics, containing not more than 50 percent by volume of water-miscible liquids and with the remainder of the solutions not being flammable, shall not be limited, provided that such materials are packaged in individual containers not exceeding 1.3 gallons.

c. For storage and display quantities in Group M and storage quantities in Group S occupancies complying with Section 414.2.4, see Table 414.2.4(1).

d. The aggregate quantity in use and storage shall not exceed the quantity listed for storage.

e. Quantities shall be increased 100 percent in buildings equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1. Where Note f also applies, the increase for both notes shall be applied accumulatively.

f. Quantities shall be increased 100 percent when stored in approved storage cabinets, gas cabinets or exhausted enclosures as specified in the *International Fire Code*. Where Note e also applies, the increase for both notes shall be applied accumulatively.

g. A single cylinder containing 150 pounds or less of anhydrous ammonia in a single control area in a nonsprinklered building shall be considered a maximum allowable quantity. Two cylinders, each containing 150 pounds or less in a single control area, shall be considered a maximum allowable quantity provided the building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

h. Allowed only when stored in approved exhausted gas cabinets or exhausted enclosures as specified in the *International Fire Code*.

i. Quantities in parenthesis indicate quantity units in parenthesis at the head of each column.

j. For gallons of liquids, divide the amount in pounds by 10 in accordance with Section 2703.1.2 of the *International Fire Code*.

**DEFLAGRATION.** An exothermic reaction, such as the extremely rapid oxidation of a flammable dust or vapor in air, in which the reaction progresses through the unburned material at a rate less than the velocity of sound. A deflagration can have an explosive effect.

**DETACHED BUILDING.** A separate single-story building, without a basement or crawl space, used for the storage or use of hazardous materials and located an approved distance from all structures.

**DETONATION.** An exothermic reaction characterized by the presence of a shock wave in the material which establishes and maintains the reaction. The reaction zone progresses through the material at a rate greater than the velocity of sound. The principal heating mechanism is one of shock compression. Detonations have an explosive effect.

**DISPENSING.** The pouring or transferring of any material from a container, tank or similar vessel, whereby vapors, dusts, fumes, mists or gases are liberated to the atmosphere.

**EXPLOSIVE.** Any chemical compound, mixture or device, the primary or common purpose of which is to function by explosion. The term includes, but is not limited to, dynamite, black powder, pellet powder, initiating explosives, detonators, safety fuses, squibs, detonating cord, igniter cord, igniters and display fireworks, 1.3G (Class B, Special).

The term "explosive" includes any material determined to be within the scope of USC Title 18: Chapter 40 and also includes any material classified as an explosive other than consumer fireworks, 1.4G (Class C, Common) by the hazardous materials regulations of DOT's 49 CFR.

**High explosive.** Explosive material, such as dynamite, which can be caused to detonate by means of a No. 8 test blasting cap when unconfined.

**Low explosive.** Explosive material that will burn or deflagrate when ignited. It is characterized by a rate of reaction that is less than the speed of sound. Examples of low explosives include, but are not limited to, black powder; safety fuse; igniters; igniter cord; fuse lighters; fireworks, 1.3G (Class B, Special) and propellants, 1.3C.

**Mass-detonating explosives.** Division 1.1, 1.2 and 1.5 explosives alone or in combination, or loaded into various types of ammunition or containers, most of which can be expected to explode virtually instantaneously when a small portion is subjected to fire, severe concussion, impact, the impulse of an initiating agent or the effect of a considerable discharge of energy from without. Materials that react in this manner represent a mass explosion hazard. Such an explosive will normally cause severe structural damage to adjacent objects. Explosive propagation could occur immediately to other items of ammunition and explosives stored sufficiently close to and not adequately protected from the initially exploding pile with a time interval short enough so that two or more quantities must be considered as one for quantity-distance purposes.

**UNDOT's Class 1 explosives.** The former classification system used by DOT's included the terms "high" and "low" explosives as defined herein. The following terms further define explosives under the current system applied by DOT's for all explosive materials defined as hazard Class 1 materials. Compatibility group letters are used in concert with the division to specify further limitations on each division noted (i.e., the letter G identifies the material as a pyrotechnic substance or article containing a pyrotechnic substance and similar materials).

**Division 1.1.** Explosives that have a mass explosion hazard. A mass explosion is one which affects almost the entire load instantaneously.

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**Division 1.2.** Explosives that have a projection hazard but not a mass explosion hazard.

**Division 1.3.** Explosives that have a fire hazard and either a minor blast hazard or a minor projection hazard or both, but not a mass explosion hazard.

**Division 1.4.** Explosives that pose a minor explosion hazard. The explosive effects are largely confined to the package and no projection of fragments of appreciable size or range is to be expected. An external fire must not cause virtually instantaneous explosion of almost the entire contents of the package.

**Division 1.5.** Very insensitive explosives. This division is comprised of substances that have a mass explosion hazard, but that are so insensitive there is very little probability of initiation or of transition from burning to detonation under normal conditions of transport.

**Division 1.6.** Extremely insensitive articles which do not have a mass explosion hazard. This division is comprised of articles that contain only extremely insensitive detonating substances and which demonstrate a negligible probability of accidental initiation or propagation.

**FIREWORKS.** Any composition or device for the purpose of producing a visible or audible effect for entertainment purposes by combustion, deflagration or detonation that meets the definition of 1.4G fireworks or 1.3G fireworks as set forth herein.

**FIREWORKS, 1.3G.** (Formerly Class B, Special Fireworks.) Large fireworks devices, which are explosive materials, intended for use in fireworks displays and designed to produce audible or visible effects by combustion, deflagration or detonation. Such 1.3G fireworks include, but are not limited to, firecrackers containing more than 130 milligrams (2 grains) of explosive composition, aerial shells containing more than 40 grams of pyrotechnic composition, and other display pieces which exceed the limits for classification as 1.4G fireworks. Such 1.3G fireworks are also described as fireworks, UN0335 by the DOTn.

**FIREWORKS, 1.4G.** (Formerly Class C, Common Fireworks.) Small fireworks devices containing restricted amounts of pyrotechnic composition designed primarily to produce visible or audible effects by combustion. Such 1.4G fireworks which comply with the construction, chemical composition and labeling regulations of the DOTn for fireworks, UN0336, and the U.S. Consumer Product Safety Commission (CPSC) as set forth in CPSC 16 CFR: Parts 1500 and 1507, are not explosive materials for the purpose of this code.

**FLAMMABLE GAS.** A material that is a gas at 68°F (20°C) or less at 14.7 pounds per square inch atmosphere (psia) (101 kPa) of pressure [a material that has a boiling point of 68°F (20°C) or less at 14.7 psia (101 kPa)] which:

1. Is ignitable at 14.7 psia (101 kPa) when in a mixture of 13 percent or less by volume with air; or
2. Has a flammable range at 14.7 psia (101 kPa) with air of at least 12 percent, regardless of the lower limit.

The limits specified shall be determined at 14.7 psi (101 kPa) of pressure and a temperature of 68°F (20°C) in accordance with ASTM E 681.

**FLAMMABLE LIQUEFIED GAS.** A liquefied compressed gas which, under a charged pressure, is partially liquid at a temperature of 68°F (20°C) and which is flammable.

**FLAMMABLE LIQUID.** A liquid having a closed cup flash point below 100°F (38°C). Flammable liquids are further categorized into a group known as Class I liquids. The Class I category is subdivided as follows:

**Class IA.** Liquids having a flash point below 73°F (23°C) and a boiling point below 100°F (38°C).

**Class IB.** Liquids having a flash point below 73°F (23°C) and a boiling point at or above 100°F (38°C).

**Class IC.** Liquids having a flash point at or above 73°F (23°C) and below 100°F (38°C).

The category of flammable liquids does not include compressed gases or cryogenic fluids.

**FLAMMABLE MATERIAL.** A material capable of being readily ignited from common sources of heat or at a temperature of 600°F (316°C) or less.

**FLAMMABLE SOLID.** A solid, other than a blasting agent or explosive, that is capable of causing fire through friction, absorption or moisture, spontaneous chemical change, or retained heat from manufacturing or processing, or which has an ignition temperature below 212°F (100°C) or which burns so vigorously and persistently when ignited as to create a serious hazard. A chemical shall be considered a flammable solid as determined in accordance with the test method of CPSC 16 CFR; Part 1500.44, if it ignites and burns with a self-sustained flame at a rate greater than 0.1 inch (2.5 mm) per second along its major axis.

**FLASH POINT.** The minimum temperature in degrees Fahrenheit at which a liquid will give off sufficient vapors to form an ignitable mixture with air near the surface or in the container, but will not sustain combustion. The flash point of a liquid shall be determined by appropriate test procedure and apparatus as specified in ASTM D 56, ASTM D 93 or ASTM D 3278.

**HANDLING.** The deliberate transport by any means to a point of storage or use.

**HAZARDOUS MATERIALS.** Those chemicals or substances that are physical hazards or health hazards as defined and classified in this section and the *International Fire Code*, whether the materials are in usable or waste condition.

**HEALTH HAZARD.** A classification of a chemical for which there is statistically significant evidence that acute or chronic health effects are capable of occurring in exposed persons. The term "health hazard" includes chemicals that are toxic or highly toxic, and corrosive.

**HIGHLY TOXIC.** A material which produces a lethal dose or lethal concentration that falls within any of the following categories:

1. A chemical that has a median lethal dose (LD<sub>50</sub>) of 50 milligrams or less per kilogram of body weight when admin-

istered orally to albino rats weighing between 200 and 300 grams each.

2. A chemical that has a median lethal dose ( $LD_{50}$ ) of 200 milligrams or less per kilogram of body weight when administered by continuous contact for 24 hours (or less if death occurs within 24 hours) with the bare skin of albino rabbits weighing between 2 and 3 kilograms each.
3. A chemical that has a median lethal concentration ( $LC_{50}$ ) in air of 200 parts per million by volume or less of gas or vapor, or 2 milligrams per liter or less of mist, fume or dust, when administered by continuous inhalation for 1 hour (or less if death occurs within 1 hour) to albino rats weighing between 200 and 300 grams each.

Mixtures of these materials with ordinary materials, such as water, might not warrant classification as highly toxic. While this system is basically simple in application, any hazard evaluation that is required for the precise categorization of this type of material shall be performed by experienced, technically competent persons.

**INCOMPATIBLE MATERIALS.** Materials that, when mixed, have the potential to react in a manner that generates heat, fumes, gases or byproducts which are hazardous to life or property.

**OPEN SYSTEM.** The use of a solid or liquid hazardous material involving a vessel or system that is continuously open to the atmosphere during normal operations and where vapors are liberated, or the product is exposed to the atmosphere during normal operations. Examples of open systems for solids and liquids include dispensing from or into open beakers or containers, dip tank and plating tank operations.

**OPERATING BUILDING.** A building occupied in conjunction with the manufacture, transportation or use of explosive materials. Operating buildings are separated from one another with the use of intraplant or intraline distances.

**ORGANIC PEROXIDE.** An organic compound that contains the bivalent -O-O- structure and which may be considered to be a structural derivative of hydrogen peroxide where one or both of the hydrogen atoms have been replaced by an organic radical. Organic peroxides can pose an explosion hazard (detonation or deflagration) or they can be shock sensitive. They can also decompose into various unstable compounds over an extended period of time.

**Class I.** Those formulations that are capable of deflagration but not detonation.

**Class II.** Those formulations that burn very rapidly and that pose a moderate reactivity hazard.

**Class III.** Those formulations that burn rapidly and that pose a moderate reactivity hazard.

**Class IV.** Those formulations that burn in the same manner as ordinary combustibles and that pose a minimal reactivity hazard.

**Class V.** Those formulations that burn with less intensity than ordinary combustibles or do not sustain combustion and that pose no reactivity hazard.

**Unclassified detonable.** Organic peroxides that are capable of detonation. These peroxides pose an extremely high explosion hazard through rapid explosive decomposition.

**OXIDIZER.** A material that readily yields oxygen or other oxidizing gas, or that readily reacts to promote or initiate combustion of combustible materials. Examples of other oxidizing gases include bromine, chlorine and fluorine.

**Class 4.** An oxidizer that can undergo an explosive reaction due to contamination or exposure to thermal or physical shock. Additionally, the oxidizer will enhance the burning rate and can cause spontaneous ignition of combustibles.

**Class 3.** An oxidizer that will cause a severe increase in the burning rate of combustible materials with which it comes in contact or that will undergo vigorous self-sustained decomposition due to contamination or exposure to heat.

**Class 2.** An oxidizer that will cause a moderate increase in the burning rate or that causes spontaneous ignition of combustible materials with which it comes in contact.

**Class 1.** An oxidizer whose primary hazard is that it slightly increases the burning rate but which does not cause spontaneous ignition when it comes in contact with combustible materials.

**OXIDIZING GAS.** A gas that can support and accelerate combustion of other materials.

**PHYSICAL HAZARD.** A chemical for which there is evidence that it is a combustible liquid, compressed gas, cryogenic, explosive, flammable gas, flammable liquid, flammable solid, organic peroxide, oxidizer, pyrophoric or unstable (reactive) or water-reactive material.

**PYROPHORIC.** A chemical with an autoignition temperature in air, at or below a temperature of 130°F (54.4°C).

**PYROTECHNIC COMPOSITION.** A chemical mixture that produces visible light displays or sounds through a self-propagating, heat-releasing chemical reaction which is initiated by ignition.

**TOXIC.** A chemical falling within any of the following categories:

1. A chemical that has a median lethal dose ( $LD_{50}$ ) of more than 50 milligrams per kilogram, but not more than 500 milligrams per kilogram of body weight when administered orally to albino rats weighing between 200 and 300 grams each.
2. A chemical that has a median lethal dose ( $LD_{50}$ ) of more than 200 milligrams per kilogram but not more than 1,000 milligrams per kilogram of body weight when administered by continuous contact for 24 hours (or less if death occurs within 24 hours) with the bare skin of albino rabbits weighing between 2 and 3 kilograms each.
3. A chemical that has a median lethal concentration ( $LC_{50}$ ) in air of more than 200 parts per million but not more than 2,000 parts per million by volume of gas or vapor, or more than 2 milligrams per liter but not more than 20 milligrams per liter of mist, fume or dust, when administered by continuous inhalation for 1 hour (or less if death

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occurs within 1 hour) to albino rats weighing between 200 and 300 grams each.

**UNSTABLE (REACTIVE) MATERIAL.** A material, other than an explosive, which in the pure state or as commercially produced, will vigorously polymerize, decompose, condense or become self-reactive and undergo other violent chemical changes, including explosion, when exposed to heat, friction or shock, or in the absence of an inhibitor, or in the presence of contaminants, or in contact with incompatible materials. Unstable (reactive) materials are subdivided as follows:

**Class 4.** Materials that in themselves are readily capable of detonation or explosive decomposition or explosive reaction at normal temperatures and pressures. This class includes materials that are sensitive to mechanical or localized thermal shock at normal temperatures and pressures.

**Class 3.** Materials that in themselves are capable of detonation or of explosive decomposition or explosive reaction but which require a strong initiating source or which must be heated under confinement before initiation. This class includes materials that are sensitive to thermal or mechanical shock at elevated temperatures and pressures.

**Class 2.** Materials that in themselves are normally unstable and readily undergo violent chemical change but do not detonate. This class includes materials that can undergo chemical change with rapid release of energy at normal temperatures and pressures, and that can undergo violent chemical change at elevated temperatures and pressures.

**Class 1.** Materials that in themselves are normally stable but which can become unstable at elevated temperatures and pressure.

**WATER-REACTIVE MATERIAL.** A material that explodes; violently reacts; produces flammable, toxic or other hazardous gases; or evolves enough heat to cause autoignition or ignition of combustibles upon exposure to water or moisture. Water-reactive materials are subdivided as follows:

**Class 3.** Materials that react explosively with water without requiring heat or confinement.

**Class 2.** Materials that react violently with water or have the ability to boil water. Materials that produce flammable, toxic or other hazardous gases or evolve enough heat to cause autoignition or ignition of combustibles upon exposure to water or moisture.

**Class 1.** Materials that react with water with some release of energy, but not violently.

[F] 307.3 High-hazard Group H-1. Buildings and structures containing materials that pose a detonation hazard shall be classified as Group H-1. Such materials shall include, but not be limited to, the following:

### Explosives:

- Division 1.1
- Division 1.2
- Division 1.3

Exception: Materials that are used and maintained in a form where either confinement or configuration will

not elevate the hazard from a mass fire to mass explosion hazard shall be allowed in H-2 occupancies.

### Division 1.4

Exception: Articles, including articles packaged for shipment, that are not regulated as an explosive under Bureau of Alcohol, Tobacco and Firearms regulations, or unpackaged articles used in process operations that do not propagate a detonation or deflagration between articles shall be allowed in H-3 occupancies.

### Division 1.5

### Division 1.6

Organic peroxides, unclassified detonable  
Oxidizers, Class 4

Unstable (reactive) materials, Class 3 detonable and Class 4  
Detonable pyrophoric materials

[F] 307.4 High-hazard Group H-2. Buildings and structures containing materials that pose a deflagration hazard or a hazard from accelerated burning shall be classified as Group H-2. Such materials shall include, but not be limited to, the following:

Class I, II or IIIA flammable or combustible liquids which are used or stored in normally open containers or systems, or in closed containers or systems pressurized at more than 15 psi (103.4 kPa) gage.

Combustible dusts  
Cryogenic fluids, flammable  
Flammable gases

Organic peroxides, Class I

Oxidizers, Class 3, that are used or stored in normally open containers or systems, or in closed containers or systems pressurized at more than 15 psi (103 kPa) gage

Pyrophoric liquids, solids and gases, nondetonable  
Unstable (reactive) materials, Class 3, nondetonable  
Water-reactive materials, Class 3

[F] 307.5 High-hazard Group H-3. Buildings and structures containing materials that readily support combustion or that pose a physical hazard shall be classified as Group H-3. Such materials shall include, but not be limited to, the following:

Class I, II or IIIA flammable or combustible liquids that are used or stored in normally closed containers or systems pressurized at 15 pounds per square inch gauge (103.4 kPa) or less

Combustible fibers, other than densely packed baled cotton  
Consumer fireworks, 1.4G (Class C, Common)

Cryogenic fluids, oxidizing

Flammable solids

Organic peroxides, Class II and III

Oxidizers, Class 2

Oxidizers, Class 3, that are used or stored in normally closed containers or systems pressurized at 15 pounds per square inch gauge (103 kPa) or less

Oxidizing gases

Unstable (reactive) materials, Class 2

Water-reactive materials, Class 2

[F] 307.6 High-hazard Group H-4. Buildings and structures which contain materials that are health hazards shall be classified as Group H-4. Such materials shall include, but not be limited to, the following:

- Corrosives
- Highly toxic materials
- Toxic materials

[F] 307.7 High-hazard Group H-5 structures. Semiconductor fabrication facilities and comparable research and development areas in which hazardous production materials (HPM) are used and the aggregate quantity of materials is in excess of those listed in Tables 307.1(1) and 307.1(2) shall be classified as Group H-5. Such facilities and areas shall be designed and constructed in accordance with Section 415.8.

[F] 307.8 Multiple hazards. Buildings and structures containing a material or materials representing hazards that are classified in one or more of Groups H-1, H-2, H-3 and H-4 shall conform to the code requirements for each of the occupancies so classified.

## SECTION 308 INSTITUTIONAL GROUP I

308.1 Institutional Group I. Institutional Group I occupancy includes, among others, the use of a building or structure, or a portion thereof, in which people are cared for or live in a supervised environment, having physical limitations because of health or age are harbored for medical treatment or other care or treatment, or in which people are detained for penal or correctional purposes or in which the liberty of the occupants is restricted. Institutional occupancies shall be classified as Group I-1, I-2, I-3 or I-4.

308.2 Group I-1. This occupancy shall include buildings, structures or parts thereof housing more than 16 persons, on a 24-hour basis, who because of age, mental disability or other reasons, live in a supervised residential environment that provides personal care services. The occupants are capable of responding to an emergency situation without physical assistance from staff. This group shall include, but not be limited to, the following:

- Residential board and care facilities
- Assisted living facilities
- Halfway houses
- Group homes
- Congregate care facilities
- Social rehabilitation facilities
- Alcohol and drug centers
- Convalescent facilities

A facility such as the above with five or fewer persons shall be classified as a Group R-3 or shall comply with the *International Residential Code* in accordance with Section 101.2. A facility such as above, housing at least six and not more than 16 persons, shall be classified as Group R-4.

308.3 Group I-2. This occupancy shall include buildings and structures used for medical, surgical, psychiatric, nursing or custodial care on a 24-hour basis for more than five persons who are not capable of self-preservation. This group shall include, but not be limited to, the following:

- Hospitals
- Nursing homes (both intermediate care facilities and skilled nursing facilities)
- Mental hospitals
- Detoxification facilities

A facility such as the above with five or fewer persons shall be classified as Group R-3 or shall comply with the *International Residential Code* in accordance with Section 101.2.

308.3.1 Child care facility. A child care facility that provides care on a 24-hour basis to more than five children 2½ years of age or less shall be classified as Group I-2.

308.4 Group I-3. This occupancy shall include buildings and structures that are inhabited by more than five persons who are under restraint or security. An I-3 facility is occupied by persons who are generally incapable of self-preservation due to security measures not under the occupants' control. This group shall include, but not be limited to, the following:

- Prisons
- Jails
- Reformatories
- Detention centers
- Correctional centers
- Pre-release centers

Buildings of Group I-3 shall be classified as one of the occupancy conditions indicated in Sections 308.4.1 through 308.4.5 (see Section 408.1).

308.4.1 Condition 1. This occupancy condition shall include buildings in which free movement is allowed from sleeping areas, and other spaces where access or occupancy is permitted, to the exterior via means of egress without restraint. A Condition 1 facility is permitted to be constructed as Group R.

308.4.2 Condition 2. This occupancy condition shall include buildings in which free movement is allowed from sleeping areas and any other occupied smoke compartment to one or more other smoke compartments. Egress to the exterior is impeded by locked exits.

308.4.3 Condition 3. This occupancy condition shall include buildings in which free movement is allowed within individual smoke compartments, such as within a residential unit comprised of individual sleeping units and group activity spaces, where egress is impeded by remote-controlled release of means of egress from such a smoke compartment to another smoke compartment.

308.4.4 Condition 4. This occupancy condition shall include buildings in which free movement is restricted from an occupied space. Remote-controlled release is provided to permit movement from sleeping units, activity spaces and other occupied areas within the smoke compartment to other smoke compartments.

308.4.5 Condition 5. This occupancy condition shall include buildings in which free movement is restricted from an occupied space. Staff-controlled manual release is provided to permit movement from sleeping units, activity spaces and other occupied areas within the smoke compartment to other smoke compartments.

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**308.5 Group I-4, day care facilities.** This group shall include buildings and structures occupied by persons of any age who receive custodial care for less than 24 hours by individuals other than parents or guardians, relatives by blood, marriage or adoption, and in a place other than the home of the person cared for. A facility such as the above with five or fewer persons shall be classified as a Group R-3 or shall comply with the *International Residential Code* in accordance with Section 101.2. Places of worship during religious functions are not included.

**308.5.1 Adult care facility.** A facility that provides accommodations for less than 24 hours for more than five unrelated adults and provides supervision and personal care services shall be classified as Group I-4.

**Exception:** A facility where occupants are capable of responding to an emergency situation without physical assistance from the staff shall be classified as Group A-3.

**308.5.2 Child care facility.** A facility that provides supervision and personal care on less than a 24-hour basis for more than five children 2½ years of age or less shall be classified as Group I-4.

**Exception:** A child day care facility that provides care for more than five but no more than 100 children 2½ years or less of age, when the rooms where such children are cared for are located on the level of exit discharge and each of these child care rooms has an exit door directly to the exterior, shall be classified as Group E.

### SECTION 309 MERCANTILE GROUP M

**309.1 Mercantile Group M.** Mercantile Group M occupancy includes, among others, buildings and structures or a portion thereof, for the display and sale of merchandise, and involves stocks of goods, wares or merchandise incidental to such purposes and accessible to the public. Mercantile occupancies shall include, but not be limited to, the following:

- Department stores
- Drug stores
- Markets
- Motor fuel-dispensing facilities
- Retail or wholesale stores
- Sales rooms

**309.2 Quantity of hazardous materials.** The aggregate quantity of nonflammable solid and nonflammable or noncombustible liquid hazardous materials stored or displayed in a single control area of a Group M occupancy shall not exceed the quantities in Table 414.2.4(1).

### SECTION 310 RESIDENTIAL GROUP R

**310.1 Residential Group R.** Residential Group R includes, among others, the use of a building or structure, or a portion thereof, for sleeping purposes when not classified as an Institutional Group I or when not regulated by the *International Resi-*

*dential Code* in accordance with Section 101.2. Residential occupancies shall include the following:

**R-1 Residential occupancies containing sleeping units** where the occupants are primarily transient in nature, including:

- Boarding houses (transient)
- Hotels (transient)
- Motels (transient)

**R-2 Residential occupancies containing sleeping units or more than two dwelling units** where the occupants are primarily permanent in nature, including:

- Apartment houses
- Boarding houses (not transient)
- Convents
- Dormitories
- Fraternities and sororities
- Hotels (nontransient)
- Monasteries
- Motels (nontransient)
- Vacation timeshare properties

Congregate living facilities with 16 or fewer occupants are permitted to comply with the construction requirements for Group R-3.

**R-3 Residential occupancies** where the occupants are primarily permanent in nature and not classified as Group R-1, R-2, R-4 or I, including:

- Buildings that do not contain more than two dwelling units.

- Adult facilities that provide accommodations for five or fewer persons of any age for less than 24 hours.

- Child care facilities that provide accommodations for five or fewer persons of any age for less than 24 hours.

- Congregate living facilities with 16 or fewer persons.

Adult and child care facilities that are within a single-family home are permitted to comply with the *International Residential Code*.

**R-4 Residential occupancies** shall include buildings arranged for occupancy as residential care/assisted living facilities including more than five but not more than 16 occupants, excluding staff.

Group R-4 occupancies shall meet the requirements for construction as defined for Group R-3, except as otherwise provided for in this code, or shall comply with the *International Residential Code*.

**310.2 Definitions.** The following words and terms shall, for the purposes of this section and as used elsewhere in this code, have the meanings shown herein.

**BOARDING HOUSE.** A building arranged or used for lodging for compensation, with or without meals, and not occupied as a single-family unit.

**CONGREGATE LIVING FACILITIES.** A building or part thereof that contains sleeping units where residents share bathroom and/or kitchen facilities.

**DORMITORY.** A space in a building where group sleeping accommodations are provided in one room, or in a series of closely associated rooms, for persons not members of the same family group, under joint occupancy and single management, as in college dormitories or fraternity houses.

**PERSONAL CARE SERVICE.** The care of residents who do not require chronic or convalescent medical or nursing care. Personal care involves responsibility for the safety of the resident while inside the building.

**RESIDENTIAL CARE/ASSISTED LIVING FACILITIES.** A building or part thereof housing persons, on a 24-hour basis, who because of age, mental disability or other reasons, live in a supervised residential environment which provides personal care services. The occupants are capable of responding to an emergency situation without physical assistance from staff. This classification shall include, but not be limited to, the following: residential board and care facilities, assisted living facilities, halfway houses, group homes, congregate care facilities, social rehabilitation facilities, alcohol and drug abuse centers and convalescent facilities.

**TRANSIENT.** Occupancy of a dwelling unit or sleeping unit for not more than 30 days.

### SECTION 311 STORAGE GROUP S

**311.1 Storage Group S.** Storage Group S occupancy includes, among others, the use of a building or structure, or a portion thereof, for storage that is not classified as a hazardous occupancy.

**311.2 Moderate-hazard storage, Group S-1.** Buildings occupied for storage uses that are not classified as Group S-2, including, but not limited to, storage of the following:

- Aerosols, Levels 2 and 3
- Aircraft repair hangar
- Bags: cloth, burlap and paper
- Bamboos and rattan
- Baskets
- Beijing: canvas and leather
- Books and paper in rolls or packs
- Boots and shoes
- Buttons, including cloth covered, pearl or bone
- Cardboard and cardboard boxes
- Clothing, woolen wearing apparel
- Condage
- Dry boat storage (indoor)
- Furniture
- Furs
- Glues, mucilage, pastes and size
- Grains
- Horns and combs, other than celluloid
- Leather
- Linoleum
- Lumber
- Motor vehicle repair garages complying with the maximum

allowable quantities of hazardous materials listed in Table 307.1(1) (see Section 406.6)

- Photo engravings
- Resilient flooring
- Silks
- Soaps
- Sugar
- Tires, bulk storage of
- Tobacco, cigars, cigarettes and snuff
- Upholstery and mattresses
- Wax candles

**311.3 Low-hazard storage, Group S-2.** Includes, among others, buildings used for the storage of noncombustible materials such as products on wood pallets or in paper cartons with or without single thickness divisions; or in paper wrappings. Such products are permitted to have a negligible amount of plastic trim, such as knobs, handles or film wrapping. Storage uses shall include, but not be limited to, storage of the following:

- Aircraft hangar
- Asbestos
- Beverages up to and including 12-percent alcohol in metal, glass or ceramic containers
- Cement in bags
- Chalk and crayons
- Dairy products in nonwaxed coated paper containers
- Dry cell batteries
- Electrical coils
- Electrical motors
- Empty cans
- Food products
- Foods in noncombustible containers
- Fresh fruits and vegetables in nonplastic trays or containers
- Frozen foods
- Glass
- Glass bottles, empty or filled with noncombustible liquids
- Gypsum board
- Inert pigments
- Ivory
- Meats
- Metal cabinets
- Metal desks with plastic tops and trim
- Metal parts
- Metals
- Mirrors
- Oil-filled and other types of distribution transformers
- Parking garages, open or enclosed
- Porcelain and pottery
- Stoves
- Talc and soapstones
- Washers and dryers

### SECTION 312 UTILITY AND MISCELLANEOUS GROUP U

**312.1 General.** Buildings and structures of an accessory character and miscellaneous structures not classified in any specific occupancy shall be constructed, equipped and maintained to conform to the requirements of this code commensurate with

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the fire and life hazard incidental to their occupancy. Group U shall include, but not be limited to, the following:

- Agricultural buildings
- Aircraft hangars, accessory to a one- or two-family residence (see Section 412.3)
- Barns
- Carports
- Fences more than 6 feet (1829 mm) high
- Grain silos, accessory to a residential occupancy
- Greenhouses
- Livestock shelters
- Private garages
- Retaining walls
- Sheds
- Stables
- Tanks
- Towers