Water

CLASS A & B
WATER UTILITY

ANNUAL REPORT

RECEIVED
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ARK PUBLIC SERVICE COMM
AUDIT SECTION

OF THE

NAME Liberty Utilities (Pine Bluff Water) Inc.
(Here show in full the exact corporate, firm or individual name of the respondent)

LOCATED AT 1100 State Street, Pine Bluff, AR 71601
(Here give the location, including street and number of the respondent's main business office within the State)

COMPANY # 761
(Here give the APSC-assigned company number)

TO THE

ARKANSAS PUBLIC SERVICE COMMISSION

COVERING ALL OPERATIONS

FOR THE YEAR ENDING DECEMBER 31, 2021

LETTER OF TRANSMITTAL

To: Arkansas Public Service Commission
Post Office Box 400
Little Rock, Arkansas 72203-0400

Submitted herewith is the annual report covering the operation of Liberty Utilities (Pine Bluff Water) Inc. (Company) of 1100 State Street, Pine Bluff, AR 71601 (Location) for the year ending December 31, 2021. This report is submitted in accordance with Section 51 of Act 324 of the 1935 Acts of Arkansas.
The following report has been carefully examined by me, and I have executed the verification given below.

(Signature)

Vice President
(Title)

VERIFICATION

STATE OF)
) ss.
COUNTY OF)

I, the undersigned, Michael D. Beatty, Vice President (Name and Title) of the Liberty Utilities (Pine Bluff Water) Inc. (Company), on my oath do say that the following report has been prepared under my direction from the original books, papers, and records of said utility: that I have carefully examined the same, and declare the same a complete and correct statement of the business and affairs of said utility in respect to each and every matter and thing set forth, to the best of my knowledge, information, and belief; and I further say that no deductions were made before stating the gross revenues, and that accounts and figures contained in the foregoing statements embrace all of the financial transactions for the period in this report.

(Signature)

Subscribed and sworn to before me this 29th
day of March 2022
My Commission Expires Nov. 16, 2022

SHERRI J. BLALOCK
Notary Public - Notary Seal
Newton County - State of Missouri
Commission Number 14969626
My Commission Expires Nov 16, 2022

Sherri J. Blalock
(Signature of Notary)

GENERAL INSTRUCTIONS, DEFINITIONS, ETC.

1. Two (2) copies of this report, properly filled out and verified shall be filed with the Utility Division of the Arkansas Public Service Commission, Little Rock, Arkansas, on or before the 31st day of March following the close of the calendar year for which the report is made.

2. This form of annual report is prepared in conformity with the Uniform System of Accounts for Public Utilities prescribed by the Public Service Commission and all accounting words and phrases are to be interpreted in accordance with the said classification.

3. The word "respondent" in the following inquiries means the person, firm, association or company in whose behalf the report is made.

4. Instructions should be carefully observed, and each question should be answered fully and accurately. Where the word "none" truly and completely states the fact, it should be given to any particular inquiry.

5. If any schedule does not apply to the respondent, such fact should be shown on the schedule by the words "not applicable."

6. Except in cases where they are especially authorized, cancellations, arbitrary check marks, and the like must not be used either as partial or entire answers to inquiries.

7. Reports should be made out by means which result in a permanent record. The copy in all cases shall be made out in permanent black ink or with permanent black typewriter ribbon. Entries of a contrary or opposite character (such as decreases reported in a column providing for both increases and decreases) should be shown in red ink or enclosed in parentheses.

8. This report will be scanned in. Please bind with clips only.

9. Answers to inquiries contained in the following forms must be complete. No answer will be accepted as satisfactory which attempts by reference to any paper, document, or return of previous years or other reports, other than the present report, to make the paper or document or portion thereof thus referred to a part of the answer without setting it out. Each report must be complete within itself.

10. In cases where the schedules provided in this report do not contain sufficient space or the information called for, or if it is otherwise necessary or desirable, additional statements or schedules may be inserted for the purpose of further explanation of accounts or schedules. They should be legibly made on paper of durable quality and should conform with this form in size of page and width of margin. This also applies to all special or unusual entries not provided for in this form. Where information called for herein is not given, state fully the reason for its omission.

11. Each respondent is required to send in connection with its report to this Commission's Utilities Division, one (1) copy of its latest annual report to stockholders.

12. Schedules supporting the revenue accounts and furnishing statistics should be so arranged as to effect a division in the operations as to those inside and outside the state.

13. Answers to all inquiries may be in even dollar figures, with cents omitted and with agreeing totals.

14. Each respondent should make its report in duplicate, retaining one copy for its files for reference, in case correspondence with regard to such report becomes necessary. For this reason, several copies of the accompanying forms are sent to each utility company concerned.

REPORT TO ARKANSAS PUBLIC SERVICE COMMISSION

Give the name, title, office address, telephone number and e-mail address of the person to whom any correspondence concerning this report should be addressed:

Name Tisha Sanderson **Title** VP Finance & Administration

Address 602 South Joplin Ave, Joplin MO 64801

Telephone Number 417-625-4270

E-Mail Tisha.Sanderson@libertyutilities.com

Give the name, address, telephone number and e-mail address of the resident agent:

Name Tony Penna **Telephone Number** 870-727-9456

Address 1100 State Street, PO Box 6070, Pine Bluff, AR 71611

E-Mail Tony.Penna@Libertyutilities.com

IDENTITY OF RESPONDENT

1. Give the exact name by which respondent was known in law at the close of the year. Use the initial word "The" only when it is part of the name:

   Liberty Utilities (Pine Bluff Water) Inc.

2. Give the location (including street and number) of (a) the main Arkansas business office of respondent at the close of the year, and (b) if respondent is a foreign corporation, the main business office if not in this state:

   (a) 1100 State Street (b)

3. Indicate by an **x** in the proper space (a) the type of service rendered, and (b) the type of organization under which respondent was operating at the end of the year.

   (a) ( ) Electric, ( ) Gas, (X Water, ( ) Telephone, ( ) Other

   (b) ( ) Proprietorship, ( ) Partnership, ( ) Joint Stock Association,
   (X) Corporation, ( ) Other (describe below):

4. If respondent is not a corporation, give (a) date of organization, and (b) name of the proprietor or the names of all partners, and the extent of their respective interest at the close of the year.

   (a)

   (b)

5. If a corporation, indicate (a) in which state respondent is incorporated, (b) date of incorporation, and (c) designation of the general law under which respondent was incorporated, or, if under special charter, the date of passage of the act:

   (a) Arkansas

   (b) 10/23/1942

   (c)

6. State whether or not respondent during the year conducted any part of its business within the State of Arkansas under a name or names other than that shown in response to inquiry No. 1 above, and, if so, give full particulars:

7. State whether respondent is a consolidated or merged company. If so, (a) give date and authority for each consolidation or merger, (b) name all constituent and merged companies, and (c) give like particulars as required of the respondent in inquiry No. 5 above:

   (a)

   (b)

   (c)

8. State whether respondent is a reorganized company. If so, give (a) name of original corporation, (b) date of reorganization, (c) reference to the laws under which it was reorganized and (d) state the occasion of the reorganization, whether because of foreclosure of mortgage or otherwise, giving full particulars.

   (a)

   (b)

   (c)

   (d)

9. Was respondent subject to a receivership or other trust at any time during the year? No
   If so, state:

   (a) Name of receiver or trustee: _____

   (b) Name of beneficiary or beneficiaries for whom trust was maintained:
   _____

   (c) Purpose of the trust: _____

   (d) Give (1) date of creation of receivership or other trust, and (2) date of acquisition of respondent: (1) _____ (2) _____

10. Did the respondent act in any of the capacities listed in Paragraph (a) below during the past year? No If so,

    (a) Indicate the applicable one by an **X** in the proper space:

    ( ) Guarantor, ( ) Surety, ( ) Principal--obligor to a surety contract,
    ( ) Principal--obligor to a guaranty contract.

    (b) Insert a statement showing the character, extent, and terms of the primary agreement or obligation, including (1) names of all parties involved, (2) extent of liability of respondent, whether contingent or actual, (3) extent of liabilities of the other parties, whether contingent or actual, and (4) security taken or offered by respondent.

DIRECTORS AND COMPENSATION

Give the name and office addresses of all directors at the close of the year, and dates of beginning and expiration of terms. Chairman (*) and Secretary (**) marked by asterisks.

Item No.	Name of Director	Office Address	Date of Term		Compensation
			Beginning	End	
1	John Thompson-See Note 1	Jackson, Missouri	9/5/19	Until Replaced	10,250
2	Anthony "Johnny" Johnston	Oakville, Ontario, Canada	9/5/19	Until Replaced	-
3	Arun Banskota	Oakville, Ontario, Canada	7/1/20	Until Replaced	-
4	Alan D. Marble-See Note 1	Neosho, Missouri	7/1/20	Until Replaced	10,000
5	Paula Baker-See Note 1	Joplin, Missouri	10/1/20	Until Replaced	10,000

Note 1 - Independent non-management directors. Management directors are not compensational for board service.
Compensation listed is to serve on all Central Region legal entitiy boards.

PRINCIPAL OFFICERS AND KEY MANAGEMENT PERSONNEL

Give the title of the principal officers, managers and key personnel, the names and office addresses of persons holding such positions at the close of the year, and the annual salary of each.

Item No.	Title	Name of person holding office at close of year	Office Address	Annual Salary
1	President	David Swain	Joplin, Missouri	$ 284,046
2	VP-Finance & Admin	Tisha Sanderson	Joplin, Missouri	212,339
3	VP-Operations-Electric	Tim Wilson	Joplin, Missouri	218,275
4	VP-Operations-Gas	Michael Beatty	Joplin, Missouri	212,381
5	VP-Operations-Water	Tony Penna	Pine Bluff, Arkansas	180,000
	TOTAL			$ 1,107,041

VOTING POWERS AND ELECTIONS

1. Did any corporation or corporations hold control over respondent at the close of the year? Yes
If control was so held, state:
(a) The form of control, whether sole or joint: Sole

(b) The name of controlling corporation or corporations: Liberty Utilities Co.

(c) The manner in which control was established: Common Stock Ownership

(d) The extent of the control: 100%

(e) Whether control was direct or indirect: Direct

(f) The name of the intermediary through which control, if indirect, was established: N/A

2. Has any class or issue of securities any special privileges in the selection of directors, trustees, or managers, or in the determination of corporate action by any method? No

If so, describe fully each such class or issue, and give a brief statement showing clearly the character and extent of such privileges:

3. Give the date of the latest closing of the stock-book, and the total number of stockholders at the date of such closing:
'Latest Stock Closing 12/13/13; 1 Shareholder

4. In the schedule below show the particulars called for concerning the stockholders of respondent who, at the date of the latest closing of the stock-book of respondent prior to the actual filing of this report, had the twenty highest voting powers of the respondent. If any such holder held in trust, show twenty such stockholders as of the close of the year. In the space provided, show total shares and votes of all stockholders.

Item No.	Name of Stockholder	Address	No. of Shares Held	No. of Voting Shares	Other Vote Empowered Securities
a	Liberty Utilities Co.	14920 W Camelback Road, Litchfield Park, AZ 85340	100	100	
	Total listed above		100	100	
	Total all stockholder				

VOTING POWERS AND ELECTIONS (Cont'd)

5. State the total number of votes represented and voted at the last general meeting for the election of directors of the respondent:
Only 1 vote, although this was not a general meeting.

6. Give the date and place of such meeting:
There were two resolutions in lieu of a meeting appointing the directors of the corporation, July 1, 2020 and October 1, 2020.

7. Give the names of each of the persons who cast the five highest number of votes. Give also the number of votes cast in his own behalf and the number of votes cast by proxy:
Liberty Utilities Co. was the name of the sole voting stockholder.

Item No.	Name of Voter	Total	On account of shares held	As proxy for others	Remarks

REMARKS

(This space may be used for remarks on inquiries on any of the preceding pages)

COMPARATIVE BALANCE SHEET - WATER

Account Number	Assets and Other Debits	Ref. Page	Previous Year 2020	Current Year 2021
	I. Utility Plant			
101	Utility Plant in Service	W-5	$ 71,041,428	$ 72,778,311
102	Utility Plant Leased to Others	W-5	-	-
103	Property Held for Future Use	W-5	-	-
104	Utility Plant Purchased or Sold	W-5	-	-
105	Construction Work in Progress	W-5	4,835,079	8,937,795
106	Completed Construction Not Classified	W-5	-	-
108	Accumulated Depreciation			
108.1	Accum. Depr. of Utility Plant in Service	W-9	(29,238,502)	(28,856,842)
108.2	Accum. Depr. of Utility Plant Leased to Others			
108.3	Accum. Depr. of Property Held for Future Use			
110	Accumulated Amortization			
110.1	Accum. Amort. of Utility Plant in Service			
110.2	Accum. Amort. of Utility Plant Leased to Others			
114	Utility Plant Acquisition Adjustments	W-5	5,047,396	5,047,396
115	Accumulated Amortization of Utility Plant Acquisition Adjs	W-17	-	-
116	Other Utility Plant Adjustments	W-5	-	-
	Total Net Utility Plant		$ 51,685,401	$ 57,906,660
	II. Other Property and Investments			
121	Nonutility Property	W-10		$ -
122	Accumulated Deprec & Amortization of Nonutility Property	W-10		
123	Investment in Associated Companies	W-10		-
124	Utility Investments	W-10		-
125	Other Investments	W-10		
126	Sinking Funds	W-10		
127	Other Special Funds	W-10		
	Total Other Property and Investments		$ -	$ -
	III. Current and Accrued Assets			
131	Cash		$ 2,876,500	$ 47,739
131.1	Cash on Hand		200	200
131.2	Cash in Bank			
132	Special Deposits			
133	Other Special Deposits			
134	Working Funds			
135	Temporary Cash Investments			
141	Customer Accounts Receivable		3,203,537	3,076,530
142	Other Accounts Receivable		124,536	95,392
143	Accum Prov for Uncollectible Accts		(517,720)	(460,763)
144	Notes Receivable			
145	Accts Receivable from Associated Companies		16,714	(1,395)
146	Notes Receivable from Associated Companies			
151	Plant Material & Supplies		252,201	331,904
152	Merchandise			
153	Other Materials & Supplies			
161	Stores Expense			
162	Prepayments		74,836	109,889
171	Accrued Interest and Dividends Receivable			
172	Rents Receivable			
173	Accrued Utility Revenues		420,961	292,258
174	Miscellaneous Current & Accrued Assets			
	Total Current and Accrued Assets		$ 6,451,765	$ 3,491,754

COMPARATIVE BALANCE SHEET - WATER

Account Number	Assets and Other Debits (Cont'd)	Ref. Page	Previous Year 2020	Current Year 2021
	IV. Deferred Debits			
181	Unamortized Debt Discount and Expense	W-11	$ -	$ -
182	Extraordinary Property Losses			
183	Preliminary Survey & Investigation Charges			
184	Clearing Accounts		398,770	345,410
185	Temporary Facilities			
186	Miscellaneous Deferred Debits		1,023,738	1,337,187
186.1	Deferred Rate Case Expense		10,202	20,666
186.2	Other Deferred Debits	W-11		-
187	Research & Development Expenditures			
190	Accumulated Deferred Income Taxes			3,293,618
190.1	Federal			
190.2	State			
190.3	Local			
	Total Deferred Debits		$ 1,432,710	$ 4,996,881
	Total Assets and Other Debits		$ 59,569,876	$ 66,395,296

COMPARATIVE BALANCE SHEET - WATER

Account Number	Liabilities and Other Credits	Ref. Page	Previous Year 2020	Current Year 2021
	V. Equity Capital			
201	Common Stock Issued	W-12	$ 29,328,000	$ 29,328,000
202	Common Stock Subscribed			
203	Common Stock Liability for Conversion			
204	Preferred Stock Issued			
205	Preferred Stock Subscribed			
206	Preferred Stock Liability for Conversion			
207	Premium on Capital Stock	W-12	-	$ -
209	Reduction in Par or Stated Value of Capital Stock			
210	Gain on Resale or Cancellation of Reacquired Capital Stock			
211	Other Paid-In Capital		2,050,000	$ 2,050,000
212	Discount on Capital Stock			
213	Capital Stock Expense			
214	Appropriated Retained Earnings			
215	Unappropriated Retained Earnings	W-19	(8,852,487)	(9,635,729)
216	Reacquired Capital Stock	W-12	-	-
218	Proprietary Capital (for proprietorships and partnerships only)		(1,676,214)	$ (552,947.96)
	Total Equity Capital		$ 20,849,299	$ 21,189,323
	VI. Long-Term Debt			
221	Bonds	W-13		
222	Reacquired Bonds	W-13		
223	Advances from Associated Companies	W-13		
224	Other Long-Term Debt	W-13	-	
227	Obligation Under Long Term Lease		37,113	$ 17,190
	Total Other Property and Investments		$ 37,113	$ 17,190
	VII. Current and Accrued Liabilities			
231	Accounts Payable		$ 563,150	$ 1,286,074
232	Notes Payable	W-13	-	$ -
233	Accounts Payable to Associated Companies		7,964,242	$ 11,904,852
234	Notes Payable to Associated Companies	W-13	13,800,000	13,800,000
235	Customer Deposits	W-15	17,546	60,374
236	Accrued Taxes	W-14	382,637	360,773
236.1	Utility Operating Income	W-14		
236.11	Taxes Other Than Income	W-14		
236.12	Income Taxes	W-14		
236.2	Other Income and Deductions			
237	Accrued Interest			
237.1	Interest Accued on Long-Term Debt			
237.2	Interest Accrued on Other Liabilities	W-14	3,121	3,121
238	Accrued Dividends			
239	Matured Long-Term Debt			
240	Matured Interest			
241	Miscellaneous Current and Accrued Liabilities	W-14	1,352,988	1,311,312
	Total Current and Accrued Liabilities		$ 24,083,684	$ 28,726,506

COMPARATIVE BALANCE SHEET - WATER

Account Number	Liabilities and Other Credits (Cont'd)	Ref. Page	Previous Year 2020	Current Year 2021
	VIII. Deferred Credits			
251	Unamortized Premium on Debt			
252	Advances for Construction	W-15	-	-
253	Other Deferred Credits	W-14	94,220	44,916
255	Accumulated Deferred Investment Tax Credits	W-16	73,492	62,812
255.1	Utility Operations			
255.2	Non-Utility Operations			
	Total Deferred Credits		$ 167,712	$ 107,728
	IX. Operating Reserves			
261	Property Insurance Reserve			
262	Injuries and Damages Reserve			
263	Pensions and Benefits Reserve		5,285,355	$ 3,754,704
265	Miscellaneous Operating Reserves			
	Total Operating Reserves		$ 5,285,355	$ 3,754,704
	X. Contributions in Aid of Construction			
271	Contributions in Aid of Construction	W-15	$ 8,117,371	$ 8,166,443
272	Acc. Amort. Of Contributions in Aid of Construction		(2,503,186)	$ (2,611,231)
	Total Contributions in Aid of Contruction		$ 5,614,185	$ 5,555,212
	XI. Accumulated Deferred Income Taxes			
281	Acc Def Income Taxes - Accelerated Amortization	W-16		
282	Accumulated Deferred Income Taxes - Liberalized Depr.	W-16	3,532,528	5,015,005
283	Accumulated Deferred Income Taxes - Other	W-16		2,029,628
	Total Accumulated Deferred Income Taxes		3,532,528	7,044,633
	Total Liabilities and Other Credits		59,569,876	66,395,295
			0	(0)

Line No.	Acct. No.	UTILITY PLANT - SYSTEM	Ref. Page	Beginning Balance	Additions	Retirements	Adjustments	Balance at End of Year
1	101	Utility Plant in Service	W-1					$ -
2	102	Utility Plant Leased to Others	W-1					-
3	103	Utility Plant Held for Future Use	W-1					-
4	104	Utility Plant Purchased or Sold	W-1					-
5	105	Construction Work in Progress	W-1					-
6	106	Completed Construction not Classified	W-1					-
7	114	Utility Plant Acquisition Adjustments	W-1					-
8		Sub-Total		$ -	$ -	$ -	$ -	$ -
9	116	Other Utility Plant Adjustments	W-1					$ -
10		TOTAL		$ -	$ -	$ -	$ -	$ -

Line No.	Acct. No.	UTILITY PLANT - ARKANSAS		Beginning Balance	Additions	Retirements	Adjustments	Balance at End of Year
1	101	Utility Plant in Service	W-1	$71,041,428	$ 4,318,531	$ (2,496,461)	$ (85,187)	$ 72,778,311
2	102	Utility Plant Leased to Others	W-1	-				-
3	103	Utility Plant Held for Future Use	W-1	-				-
4	104	Utility Plant Purchased or Sold	W-1	-				-
5	105	Construction Work in Progress	W-1	4,835,079	(4,318,531)	8,657,424	(236,177)	8,937,795
6	106	Completed Construction not Classified	W-1	-				-
7	114	Utility Plant Acquisition Adjustments	W-1	5,047,396				5,047,396
11		Sub-Total		$80,923,903	$ -	$ 6,160,963	$ (321,364)	$ 86,763,502
12	116	Other Utility Plant Adjustments	W-1					$ -
15		TOTAL		$ 80,923,903	$ -	$ 6,160,963	$ (321,364)	$ 86,763,502

WATER PLANT IN SERVICE

Acct. No.	Account	Ref. Page	Balance at Beginning of Year	Additions	Retirements	Adjustments	Balance at End of Year
	I. INTANGIBLE PLANT						
301.1	Organization		$ 4,639				$ 4,639
302.1	Franchises		131				131
339.1	Other Plant & Miscellaneous Equipment		91,100	185,190			276,290
	Total Intangible Plant		$ 95,870	$ 185,190	$ -	$ -	$ 281,060
	II. SOURCE OF SUPPLY & PUMPING PLANT						
303.2	Land and Land Rights		$127,157				$ 127,157
304.2	Structures and Improvements		980,079	120,091			1,100,170
305.2	Collecting and Impounding Reservoirs		-				-
306.2	Lake, River and Other Intakes		-				-
307.2	Wells and Springs		1,729,530	487,672	(275,472)		1,941,730
308.2	Infiltration Galleries and Tunnels		-				-
309.2	Supply Mains		704,462				704,462
310.2	Power Generation Equipment		-				-
311.2	Pumping Equipment		6,158,907	324,983	(318,271)	(95,854)	6,069,765
311.3	Other Pumping Equipment		1,187,277				1,187,277
339.2	Other Plant & Miscellaneous Equipment		-				-
	Total Supply & Pumping Plant		$10,887,412	$ 932,746	$ (593,743)	$ (95,854)	$ 11,130,561
	III. WATER TREATMENT PLANT						
303.3	Land and Land Rights		$68,190				$68,190
304.3	Structures and Improvements		2,198,326	7,415	(38,675)		$2,167,066
320.3	Water Treatment Equipment		4,940,032	152,313	(2,736)		5,089,609
339.3	Other Plant & Miscellaneous Equipment		-				-
	Total Water Treatment Plant		$7,206,548	$ 159,728	$ (41,411)	$ -	$ 7,324,865
	IV. TRANSMISSION AND DISTRIBUTION						
303.4	Land and Land Rights		$59,477				$ 59,477
304.4	Structures and Improvements		243,355				243,355
330.4	Distribution Reservoirs & Standpipes		1,276,204				1,276,204
331.4	Transmission and Distribution Mains		21,634,879	906,039	(145,745)		22,395,173
333.4	Services		11,099,261	665,005	(481,731)		11,282,535
334.4	Meters and Meter Installations		3,271,670	882,874	(1,010,300)	8,691	3,152,935
334.5	AMR Meters		4,105,654	186,558	(55,379)	1,977	4,238,810
335.4	Hydrants		2,225,068	218,475	(98,670)		2,344,873
339.4	Other Plant & Miscellaneous Equipment		-				-
	Total Transmission and Distribution Plant		$43,915,568	$ 2,858,951	$ (1,791,825)	$ 10,668	$ 44,993,362

WATER PLANT IN SERVICE

Acct. No.	Account	Ref. Page	Balance at Beginning of Year	Additions	Retirements	Adjustments	Balance at End of Year
	VI. GENERAL PLANT						
303.5	Land and Land Rights		$196,404				$196,404
304.5	Structures & Improvements		1,548,709				1,548,709
340.5	Office Furniture & Equipment		487,203	157,908			645,111
340.6	Terminal Equipment & Hardware		576,073	14,858			590,931
340.7	Computer Software		3,272,039				3,272,039
341.5	Transportation Equipment		828,437				828,437
342.5	Stores Equipment		13,748				13,748
343.5	Tools, Shop & Garage Equipment		464,657				464,657
344.5	Laboratory Equipment		59,823				59,823
345.5	Power Operated Equipment		462,367	7,067			469,434
346.5	Communication Equipment		663,200		(60,585)		602,615
347.1	Miscellaneous Equipment - CNG Station		237,238	2,083			239,321
347.5	Miscellaneous Equipment		85,118		(8,897)		76,221
348.5	Other Tangible Property		41,014				41,014
	Total General Plant		$8,936,030	$ 181,916	$ (69,482)	$ -	$ 9,048,464
	Rounding Differences					$ (1)	(1)
101.2	ROU Asset - Operating Lease Cost						-
	Plant Subtotal	W-1 W-5	$71,041,428	$ 4,318,531	$ (2,496,461)	$ (85,187)	$ 72,778,311
	TOTAL WATER PLANT IN SERVICE	W-1 W-5	$71,041,428	$ 4,318,531	$ (2,496,461)	$ (85,187)	$ 72,778,311

Slight rounding differences exist in the beginning balances.

ACCUMULATED DEPRECIATION - PLANT IN SERVICE

Acct. No.	Account	Ref. Page	Balance at Beginning of Year	Additions	Retirements	Adjustments	Balance at End of Year
	I. INTANGIBLE PLANT						
301.1	Organization		$ -				$ -
302.1	Franchises		-				-
339.1	Other Plant & Miscellaneous Equipment		-	119,363			119,363
	Total Intangible Plant		$ -	$ 119,363	$ -	$ -	$ 119,363
	II. SOURCE OF SUPPLY & PUMPING PLANT						
303.2	Land and Land Rights		$ -				$ -
304.2	Structures and Improvements		158,694	36,635			195,329
305.2	Collecting and Impounding Reservoirs		-				-
306.2	Lake, River and Other Intakes		-				-
307.2	Wells and Springs		1,178,211	7,540	(275,472)		910,279
308.2	Infiltration Galleries and Tunnels		-				-
309.2	Supply Mains		413,393	6,622			420,015
310.2	Power Generation Equipment		-				-
311.2	Pumping Equipment		1,579,751	335,215	(318,271)	(33,092)	1,563,603
311.3	Other Pumping Equipment		389,127	63,875			453,002
339.2	Other Plant & Miscellaneous Equipment		-				-
	Total Supply & Pumping Plant		$ 3,719,176	$ 449,887	$ (593,743)	$ (33,092)	$ 3,542,228
	III. WATER TREATMENT PLANT						
303.3	Land and Land Rights		$ -				$ -
304.3	Structures and Improvements		980,899	52,677	(38,675)		994,901
320.3	Water Treatment Equipment		2,929,107	109,936	(2,736)		3,036,307
339.3	Other Plant & Miscellaneous Equipment		-				-
	Total Water Treatment Plant		3,910,006	$ 162,613	$ (41,411)	$ -	$ 4,031,208
	IV. TRANSMISSION AND DISTRIBUTION						
303.4	Land and Land Rights		$ -				$ -
304.4	Structures and Improvements		56,171	5,791			61,962
330.4	Distribution Reservoirs & Standpipes		601,049	44,156			645,205
331.4	Transmission and Distribution Mains		7,513,304	361,103	(145,745)	(2,257)	7,726,405
333.4	Services		4,841,842	302,185	(481,731)		4,662,296
334.4	Meters and Meter Installations		1,574,576	130,118	(1,010,300)		694,394
334.5	AMR Meters		787,600	206,608	(55,379)		938,829
335.4	Hydrants		802,129	48,051	(98,670)		751,510
339.4	Other Plant & Miscellaneous Equipment						-
	Total Transmission and Distribution Plant		16,176,671	$ 1,098,012	$ (1,791,825)	$ (2,257)	$ 15,480,601

ACCUMULATED DEPRECIATION - PLANT IN SERVICE

Acct. No.	Account	Ref. Page	Balance at Beginning of Year	Additions	Retirements	Adjustments	Balance at End of Year
	VI. GENERAL PLANT						
303.5	Land and Land Rights		$ -				$ -
304.5	Structures & Improvements		641,423	23,850			665,273
340.5	Office Furniture & Equipment		501,116	57,241			558,357
340.6	Terminal Equipment & Hardware		393,011	10,592			403,603
340.7	Computer Software		2,640,619	467,575			3,108,194
341.5	Transportation Equipment		499,212	82,843			582,055
342.5	Stores Equipment		13,695	-			13,695
343.5	Tools, Shop & Garage Equipment		258,675	23,233			281,908
344.5	Laboratory Equipment		56,909	2,914			59,823
345.5	Power Operated Equipment		149,269	31,311			180,580
346.5	Communication Equipment		658,425	-	(60,585)		597,840
347.1	Miscellaneous Equipment - CNG Station		(21,737)	7,967			(13,770)
347.5	Miscellaneous Equipment		52,347	5,084	(8,897)		48,534
348.5	Other Tangible Property		9,260	2,050			11,310
	Total General Plant		$ 5,852,224	$ 714,660	$ (69,482)	$ -	$ 6,497,402
	Rounding Differences		$ (5)	$ 3	$ 1		(1)
108.1	RWIP Cost of Removal		$ (572,355)			$ (394,389)	(966,744)
108.2	RWIP Salvage		152,785				152,785
	Accumulated Depreciation Subtotal	W-1	$ 29,238,502	$ 2,544,538	$ (2,496,460)	$ (429,738)	$ 28,856,842
	TOTAL ACC DEPR-PLANT IN SERVICE		$ 29,238,502	$ 2,544,538	$ (2,496,460)	$ (429,738)	$ 28,856,842

Slight rounding differences exist in the beginning balances.

OTHER PROPERTY & INVESTMENTS

I. Other Physical Property (Accounts 121 and 122)

Item No.	Description	Ref. Page	Beginning Balance	Additions	Retirements	Ending Balance
						$ -
	TOTAL	W-1	$ -	$ -	$ -	$ -

II. Investments in Associated & Subsidiary Companies (Accounts 123)

Item No.	Description	Ref. Page	Date of Investment	Effective Interest Rate	Current Year's Investment	Amount Outstanding End of Year
	TOTAL	W-1			$ -	$ -

III. Util. Investments (Account 124)

Item No.	Description	Ref. Page	Date of Investment	Effective Interest Rate	Current Year's Investment	Amount Outstanding End of Year
	TOTAL	W-1			$ -	$ -

IV. Other Funds (Accounts 125, 126 and 127)

Item No.	Description	Ref. Page	Beginning Balance	Debits	Credits	Ending Balance
						$ -
	TOTAL	W-1	$ -	$ -	$ -	$ -

Total Other Property & Investments $ -

EXTRAORDINARY PROPERTY LOSS

Item No.	Description	Years to Amortize	Total Amount to Amortize as Authorized by APSC
	TOTAL		$ -

AMORTIZATION OF EXTRAORDINARY PROPERTY LOSSES (Account 186.2)

			Annual Amortization				
Item No.	Balance At Beginning of Year	Ref. Page	Approval Order #	Debit Amount	Credit Acct. #	Credit Amount	Balance at End of Year
							$ -
Total	$ -	W-2		$ -		$ -	$ -

DEBT DISCOUNT AND EXPENSE (Account 181)

Item No.	Description	Ref. Page	Balance At Beginning of Year	Debits	Credits	Balance at End of Year
						$ -
	TOTAL	W-3	$ -	$ -	$ -	$ -

CAPITAL STOCK

Item No.	Kind of Stock	Ref. Page	Par or Stated Value Per Share	No. of Shares Authorized	No. of Shares Outstanding End of Year	Capital Stock Outstanding End of Year ($)
1	Common Stock			106	106	$29,328,000.00
	TOTAL	W-3		106	106	$ 29,328,000

PREMIUM AND ASSESSMENT ON CAPITAL STOCK

Item No.	Kind of Stock	Ref. Page	Balance At Beginning of Year	Realized During the Year	Released During Year	Balance at End of Year	Acct Credited With Premium Written Off
	Total	W-3	$ -	$ -	$ -	$ -	

DIVIDENDS

Item No.	Class of Stock	Ref. Page	Date Declared	Date Paid	No. of Shares	Dividend Per Share	Total Amount Paid
Total		W-19			-	$ -	$ -

REACQUIRED CAPITAL STOCK

Item No.	Kind of Stock	Ref. Page	Date Re-acquired	No. of Shares Reacquired	Cost	Par or Stated Value of Stock
	TOTAL	W-3		-	$ -	$ -

TOTAL DEBT OUTSTANDING

I. LONG-TERM DEBT* (Accounts 221-224)

Item No.	Description	Ref. Page	APSC Approval Date	Issue Date	Maturity Date	Interest Rate	Amount Outstanding End of Year
	TOTAL	W-3					$ -

II. NOTES PAYABLE TO ASSOCIATED COMPANIES (Account 234)

Item No.	Description	Ref. Page	Date of Issue	Date of Maturity	Interest Rate	Amount Outstanding End of Year
1	Note Payable		9/25/14		4.14%	$ 13,800,000
	TOTAL	W-3				$ 13,800,000

III. OTHER NOTES PAYABLE (Account 232)

Item No.	Description	Ref. Page	Date of Issue	Date of Maturity	Interest Paid	Amount Outstanding End of Year
	TOTAL	W-3				$ -

* All security issues require APSC approval.

TOTAL DEBT OUTSTANDING $ 13,800,000

ACCRUED TAXES (Accounts 236 & 241)

Item No.	Kind of Tax	Ref. Page	Balance at Beginning of Year	Accrued During Year	Paid During Year	Adjustments	Balance at End of Year
1	Federal Income		$ -	$ -	$ -	$ -	$ -
2	State Income						-
3	Ad Valorem		348,805	(350,924)	435,999		433,880
4	Franchise Tax		38,417	(544,223)	532,120		26,314
5	Sales and Use Tax		(86,544)	(1,233,615)	1,220,738		(99,422)
6	Payroll Taxes		-				-
7	Deferred Tax Liablity		81,959	(81,959)			-
	TOTAL	W-3	$ 382,637	$ (2,210,721)	$ 2,188,857	$ -	$ 360,773

INTEREST ACCRUED ON OTHER LIABILITIES

Item No.	Description	Ref. Page	Balance at Beginning of Year	Debits	Credits	Balance at End of Year
1	Accrued Interest Customer Deposits		$ 3,121	$ (38)	$ 38	$ 3,121
2						-
						-
						-
						-
						-
						-
	TOTAL	W-3	$ 3,121	$ (38)	$ 38	$ 3,121

OTHER CURRENT AND ACCRUED LIABILITIES

Item No.	Description	Ref. Page	Balance at Beginning of Year	Debits	Credits	Balance at End of Year
1	Accrued Payroll		$ 35,687	$ (484,687)	$ 487,836	$ 38,836
2	Accrued Vacation		13,719	(6,814)	12,711	19,616
3	City & County Revenue Collection		813,576	(9,602,436)	9,615,351	826,490
4	Accrued Bonus		68,413	(68,413)	100,050	100,050
5	Accrued Other		336,758	(4,984,910)	4,891,566	243,414
6	Unapplied Payments		74,155	(38,603)	36,674	72,226
7	Operating Lease Liab - ST		-	-	-	-
8	Tax Reg liability-current		10,680	(42,720)	42,720	10,680
			-	-		
	TOTAL	W-3	$ 1,352,988	$ (15,228,583)	$ 15,186,907	$ 1,311,312

OTHER DEFERRED CREDITS

Item No.	Description	Ref. Page	Balance at Beginning of Year	Debits	Credits	Balance at End of Year
1	Deferred Regulatory Liab		$ 94,220	$ (399,993)	$ 350,689	$ 44,916
2						-
						-
						-
						-
						-
	TOTAL	W-4	$ 94,220	$ (399,993)	$ 350,689	$ 44,916

CONSUMER ADVANCES FOR CONSTRUCTION (Account 252)

Item	Ref. Page	Amount
Balance at Beginning of Year	W-4	
Additions		
Refunds		
Transfers: (Account Credited & Amount)		
Balance at End of Year	W-4	$ -

CONTRIBUTIONS IN AID OF CONSTRUCTION (Account 271)

For Additions Show Whether Cash or Other Contributions and by Whom Contributed	Ref. Page	Amount
Balance at Beginning of Year	W-4	$ 8,117,371
Additions		49,072
Debits: (Account Credited & Amount)		
Balance at End of Year	W-4	$ 8,166,443

CUSTOMER DEPOSITS (Account 235)

Item	Ref. Page	Amount	
		System	Arkansas
Balance at Beginning of Year	W-3	Same as	$ 17,546
Credits:		Arkansas	$ 42,828
Debits: (Account Credited and Amount)			
Balance at End of Year	W-3	$ -	$ 60,374
Indicate Calendar Year Amount of Interest Paid Customers @ 6%			
Indicate Calendar Year Amount of Interest Paid Customers @ 8%			

COMPUTATION OF INVESTMENT CREDIT

(1) Qualified Investment in New or Used Property

Type of Prop.	Life Years	Property	(2) Cost or Basis	(3) %	Investment (Col 2 x Col 3)
		(2) Total Qualified Investment			
		(3) Tentative Investment			

INVESTMENT TAX CREDIT

Item No.	Account Credited	Ref. Page	Balance at Beginning of Year	Debits	Credits	Balance at End of Year
1	411		73,492	(53,400)	42,720	62,812
						-
						-
						-
		W-4	73,492	(53,400)	42,720	62,812

DEFERRED INCOME TAXES (Account 190)

Item No.	Description	Ref. Page	Balance at Beginning of Year	Debits	Credits	Balance at End of Year
1	Accum Deferred Income Txs-Assets		-	3,560,300	(266,682)	3,293,618
						-
						-
	TOTAL	W-4	-	3,560,300	(266,682)	3,293,618

DEFERRED INCOME TAXES (Account 282)

Item No.	Description	Ref. Page	Balance at Beginning of Year	Debits	Credits	Balance at End of Year
1	Accum Deferred Inc Taxes - Plant		-	-	5,015,005	5,015,005
						-
						-
	TOTAL	W-4	-	-	5,015,005	5,015,005

DEFERRED INCOME TAXES (Account 283)

Item No.	Description	Ref. Page	Balance at Beginning of Year	Debits	Credits	Balance at End of Year
1	Deferred Income Tax		1,702,796	(1,560,200)	73,501	216,097
2	ADIT Adjustment		74,362	(74,362)	-	0
3	Regulatory Liability Tax		1,755,370	-	-	1,755,370
4	Def. Reg. Liab. - 2017 Tax Act		-	-	58,161	58,161
5						-
						-
						-
	TOTAL	W-4	3,532,528	(1,634,562)	131,662	2,029,628

ACCUMULATED RESERVES

Item No.	Depreciation Reserve	Amount System	Amount Arkansas
1	Balance at Beginning of Year		$ 29,238,502
	CREDITS		
2	Depreciation Expense		2,544,538
3	Material & Supplies (Salvage)		
4	Other (Specify)		
5	Rounding		
6			
7			
8	Total Credits	$ -	$ 2,544,538
	DEBITS		
9	Retirement of Plant		$ 2,496,460
10	Removal Costs		429,738
11	Other (Specify)		
12			
13	Rounding		
14			
15	Total Debits	$ -	$ 2,926,198
16	Balance at End of Year	$ -	$ 28,856,842

Line No.	Other Reserves	Balance At Beginning of Year	Debits	Credits	Balance at End of Year
1	Amortization of utility plant acquistion adjustments				$ -
2	Depreciation & amortization of other property				
3	Uncollectible Accounts				-
4	Other (Specify)				-
					-
					-
					-
					-
					-
					-
					-
					-
					-
					-
					-
					-
					-
5	TOTAL	$ -	$ -	$ -	$ -

INCOME STATEMENT

Line No.	Description	Ref. Page		
1	Operating Revenues	W-25		$ 9,064,909
2	Operating Expenses	W-24	8,584,510	
3	Taxes Other Than Income Taxes		542,383	
4	Income Taxes on Utility Operating Income		-	
5	Provision for Deferred Taxes		(264,396)	
6	Income Taxes Deferred Prior Years - Credit			
7	Investment Tax Credit - Deferred to Future Periods			
8	Investment Tax Credit - Restored to Operating Income		(10,698)	
9	Total Operating Expense			8,851,800
10	Net Operating Income			213,110
	Other Income:			
11	Revenues from Merchandising			
12	Costs and Expenses of Merchandising			
13	Net Revenue from Non-Utility Operations			
14	Rental Income			
15	Interest & Dividends		(32,932)	
16	Allowance for Funds Used During Construction		198,863	
17	Miscellaneous Non-Operating Income		(588,104)	
18	Total Other Income			(422,174)
	Other Income Deductions:			
19	Interest on Long-Term Debt			
20	Amortization of Debt Discount & Expense			
21	Amortization of Premium on Debt - Credit			
22	Interest on Debt to Associated Companies		571,320	
23	Other Interest Expense		2,858	
24	Miscellaneous Income Deductions			
25	Total Other Income Deductions			
				574,178
28	Net Income			(783,242)
29	Less: Reservation of Income			
30	Balance Transferred to Earned Surplus	W-19		$ (783,242)

CAPITAL SURPLUS

(Give below an analysis of changes in capital surplus during the year)

Item No.	Item	Ref. Page	Debits	Credits
1	Balance at Beginning of Year			
2				
3				
4				
5				
6				
7				
8				
9				
	Balance at End of Year	W-3		$ -

EARNED SURPLUS

1. Report in this schedule an accounting for changes in earned surplus for the year.
2. Each credit and debit during the year should be identified as to the surplus account in which included and the contra account affected shown. Minor items may be grouped by classes; however, the number of items in each group should be shown.
3. For each surplus reservation, state the purpose of the reservation, the amount and the reserve account credited. In a footnote explain the basis for determining the amount reserved, and, if reservations are to be recurrent, state the number and annual amounts to be reserved as well as the total reservation eventually to be accumulated.
4. Dividend appropriations should be shown for each class and series of capital stock.

Item No.	Item	Ref. Page	Earned Surplus Account	Contra Account Affected	Amount
1	Balance at Beginning of Year				$ (8,852,487)
	Credits				$ (783,242)
2					
3					
4					
5					
6					
7					
	Debits				
8					
9					
10					
11					
12					
13					
14					
15					
16					
	Balance at End of Year	W-3			$ (9,635,729)

WATER OPERATING EXPENSES

Line No.	Acct. No.	Account	Total System	Total Arkansas
		I. SOURCE OF SUPPLY EXPENSES	SAME AS ARKANSAS	
		Operations		
1	601.1	Salaries and Wages - Employees		64
2	603.1	Salaries and Wages - Officers, Directors and Majority Stockholders		
3	604.1	Employee Pensions and Benefits		
4	610.1	Purchased Water		
5	615.1	Purchased Power		836,669
6	616.1	Fuel for Power Production		5,851
7	618.1	Chemicals		
8	620.1	Materials and Supplies		-
9	631.1	Contractual Services - Engineering		
10	632.1	Contractual Services - Accounting		
11	633.1	Contractual Services - Legal		
12	634.1	Contractual Services - Management Fees		
13	635.1	Contractual Services - Other		60,622
14	641.1	Rental of Building / Real Property		
15	642.1	Rental of Equipment		
16	650.1	Transportation Expenses		
17	656.1	Insurance - Vehicle		
18	657.1	Insurance - General Liability		
19	658.1	Insurance - Workman's Compensation		
20	659.1	Insurance - Other		
21	667.1	Regulatory Commission Expenses		
22	675.1	Miscellaneous Expense		
23		Total Operations		903,205
		Maintenance		
23	601.2	Salaries and Wages - Employees		1,944
24	603.2	Salaries and Wages - Officers, Directors and Majority Stockholders		
25	604.2	Employee Pensions and Benefits		
26	618.2	Chemicals		
27	620.2	Materials and Supplies		461
28	631.2	Contractual Services - Engineering		
29	632.2	Contractual Services - Accounting		
30	633.2	Contractual Services - Legal		
31	634.2	Contractual Services - Management Fees		
32	635.2	Contractual Services - Other		-
33	641.2	Rental of Building / Real Property		
34	642.2	Rental of Equipment		
35	650.2	Transportation Expenses		
36	656.2	Insurance - Vehicle		
37	657.2	Insurance - General Liability		
38	658.2	Insurance - Workman's Compensation		
39	659.2	Insurance - Other		
40	667.2	Regulatory Commission Expenses		
41	675.2	Miscellaneous Expense		
42		Total Maintenance		2,405
43		Total Source of Supply Expenses		905,611

WATER OPERATING EXPENSES				
Line No.	Acct. No.	Account	Total System	Total Arkansas
		II. WATER TREATMENT EXPENSES		
		Operations		
44	601.3	Salaries and Wages - Employees		207,454
45	603.3	Salaries and Wages - Officers, Directors and Majority Stockholders		
46	604.3	Employee Pensions and Benefits		
47	615.3	Purchased Power		
48	616.3	Fuel for Power Production		
49	618.3	Chemicals		160,189
50	620.3	Materials and Supplies		43,786
51	631.3	Contractual Services - Engineering		
52	632.3	Contractual Services - Accounting		
53	633.3	Contractual Services - Legal		
54	634.3	Contractual Services - Management Fees		
55	635.3	Contractual Services - Other		
56	641.3	Rental of Building / Real Property		
57	642.3	Rental of Equipment		1,021
58	650.3	Transportation Expenses		
59	656.3	Insurance - Vehicle		
60	657.3	Insurance - General Liability		
61	658.3	Insurance - Workman's Compensation		
62	659.3	Insurance - Other		
63	667.3	Regulatory Commission Expenses		
64	675.3	Miscellaneous Expense		
65		Total Operations		412,449
		Maintenance		
66	601.4	Salaries and Wages - Employees		49,028
67	603.4	Salaries and Wages - Officers, Directors and Majority Stockholders		
68	604.4	Employee Pensions and Benefits		
69	618.4	Chemicals		
70	620.4	Materials and Supplies		
71	631.4	Contractual Services - Engineering		
72	632.4	Contractual Services - Accounting		
73	633.4	Contractual Services - Legal		
74	634.4	Contractual Services - Management Fees		
75	635.4	Contractual Services - Other		
76	641.4	Rental of Building / Real Property		
77	642.4	Rental of Equipment		
78	650.4	Transportation Expenses		
79	656.4	Insurance - Vehicle		
80	657.4	Insurance - General Liability		
81	658.4	Insurance - Workman's Compensation		
82	659.4	Insurance - Other		
83	667.4	Regulatory Commission Expenses		
84	675.4	Miscellaneous Expense		1,667
85		Total Maintenance		50,695
86		Total Water Treatment Expenses		463,144

WATER OPERATING EXPENSES				
Line No.	Acct. No.	Account	Total System	Total Arkansas
		III. TRANSMISSION & DISTRIBUTION EXPENSES		
		Operations		
87	601.5	Salaries and Wages - Employees		277,786
88	603.5	Salaries and Wages - Officers, Directors and Majority Stockholders		
89	604.5	Employee Pensions and Benefits		
90	615.5	Purchased Power		
91	616.5	Fuel for Power Production		
92	618.5	Chemicals		
93	620.5	Materials and Supplies		13,596
94	631.5	Contractual Services - Engineering		
95	632.5	Contractual Services - Accounting		
96	633.5	Contractual Services - Legal		
97	634.5	Contractual Services - Management Fees		
98	635.5	Contractual Services - Other		271,179
99	641.5	Rental of Building / Real Property		
100	642.5	Rental of Equipment		
101	650.5	Transportation Expenses		
102	656.5	Insurance - Vehicle		
103	657.5	Insurance - General Liability		
104	658.5	Insurance - Workman's Compensation		
105	659.5	Insurance - Other		
106	667.5	Regulatory Commission Expenses		
107	675.5	Miscellaneous Expense		
108		Total Operations		562,560
		Maintenance		
109	601.6	Salaries and Wages - Employees		36,770
110	603.6	Salaries and Wages - Officers, Directors and Majority Stockholders		
111	604.6	Employee Pensions and Benefits		
112	618.6	Chemicals		
113	620.6	Materials and Supplies		
114	631.6	Contractual Services - Engineering		
115	632.6	Contractual Services - Accounting		
116	633.6	Contractual Services - Legal		
117	634.6	Contractual Services - Management Fees		
118	635.6	Contractual Services - Other		620
119	641.6	Rental of Building / Real Property		
120	642.6	Rental of Equipment		
121	650.6	Transportation Expenses		
122	656.6	Insurance - Vehicle		
123	657.6	Insurance - General Liability		
124	658.6	Insurance - Workman's Compensation		
125	659.6	Insurance - Other		
126	667.6	Regulatory Commission Expenses		
127	675.6	Miscellaneous Expense		
128		Total Maintenance		37,390
129		Total Transmission & Distribution Expenses		599,950

WATER OPERATING EXPENSES				
Line No.	Acct. No.	Account	Total System	Total Arkansas
		IV. CUSTOMER ACCOUNTS EXPENSE		
130	601.7	Salaries and Wages - Employees		571,741
131	603.7	Salaries and Wages - Officers, Directors and Majority Stockholders		
132	604.7	Employee Pensions and Benefits		
133	615.7	Purchased Power		
134	616.7	Fuel for Power Production		
135	620.7	Materials and Supplies		
136	631.7	Contractual Services - Engineering		
137	632.7	Contractual Services - Accounting		
138	633.7	Contractual Services - Legal		
139	634.7	Contractual Services - Management Fees		
140	635.7	Contractual Services - Other		627,247
141	641.7	Rental of Building / Real Property		
142	642.7	Rental of Equipment		
143	650.7	Transportation Expenses		
144	656.7	Insurance - Vehicle		
145	657.7	Insurance - General Liability		
146	658.7	Insurance - Workman's Compensation		
147	659.7	Insurance - Other		
148	667.7	Regulatory Commission Expenses		
149	670.7	Bad Debt Expense		86,464
150	675.7	Miscellaneous Expense		
151		Total Customer Accounts Expenses		1,285,452
		V. ADMINISTRATION & GENERAL EXPENSES		
152	601.8	Salaries and Wages - Employees		(3,549)
153	603.8	Salaries and Wages - Officers, Directors and Majority Stockholders		
154	604.8	Employee Pensions and Benefits		564,577
155	615.8	Purchased Power		
156	616.8	Fuel for Power Production		
157	620.8	Materials and Supplies		51,931
158	631.8	Contractual Services - Engineering		
159	632.8	Contractual Services - Accounting		165,442
160	633.8	Contractual Services - Legal		13,110
161	634.8	Contractual Services - Management Fees		981,606
162	635.8	Contractual Services - Other		312,647
163	641.8	Rental of Building / Real Property		-
164	642.8	Rental of Equipment		
165	650.8	Transportation Expenses		95,293
166	656.8	Insurance - Vehicle		22,152
167	657.8	Insurance - General Liability		87,258
168	658.8	Insurance - Workman's Compensation		11,086
169	659.8	Insurance - Other		
170	660.8	Advertising Expense		
171	666.8	Regulatory Commission Expenses - Amort. Of Rate Case Expense		
172	667.8	Regulatory Commission Expenses		55,867
173	675.8	Miscellaneous Expense		481,072
174		Total Administration & General Expenses		2,838,491

WATER OPERATING EXPENSES				
Line No.	Acct. No.	Account	Total System	Total Arkansas
		VI. DEPRECIATION AND AMORTIZATION EXPENSES		
175	403	Depreciation Expense		2,544,538
176	406	Amort. of Utility Plant Acquisition Adjustments		(108,045)
177	407	Amortization Expense		55,368
178	407.1	Amort. of Limited-term Plant		
179	407.2	Amort. of Property Losses		
180	407.3	Amort. of Other Utility Plant		
181		Total Depreciation and Amortization Expenses		2,491,861
182		TOTAL OPERATING EXPENSES BEFORE TAXES (Ref. P. W-18)		8,584,510

WATER OPERATING REVENUES - ARKANSAS

Line No.	Acct. No.	Account	Ref. Page	Average Number of Customers	Number of M. Gallons Sold	Revenues
		WATER SALES				
1	461	Metered Water Revenue				(128,703)
2	461.1	Metered Sales to Residential Customers		13,049	819,118,010	2,105,426
3	461.2	Metered Sales to Commercial Customers		1,973	464,747,293	865,674
4	461.3	Metered Sales to Industrial Customers		51	938,454,080	1,663,503
5	461.4	Metered Sales to Public Authorities		257	414,227,051	731,905
6	461.5	Metered Sales to Multiple Family Dwellings				-
7		Total		15,330	2,636,546,434	5,237,806
8	460	Unmetered Water Revenue				3,244,151
9	462	Fire Protection Revenue		155		82,366
	462	TCJA Credit				(400,004)
10	462.1	Public Fire Protection				
11	462.2	Private Fire Protection				
12	464	Other Sales to Public Authorities				
13	465	Sales to Irrigation Customers				
14	466	Sales for Resale		5	290,551,078	547,074
15	467	Interdepartmental Sales				
16		Total		160	290,551,078	229,436
17		Total Water Sales		15,490	2,927,097,512	8,711,393
		OTHER WATER REVENUES				
18	470	Forfeited Discounts				
19	471	Misc. Service Revenues				233,788
20	472	Rent from Water Property				33,272
21	473	Interdepartmental Rents				
22	474	Other Water Revenues				86,457
23		Total		-	-	353,516
24		TOTAL WATER OPERATING REVENUES	W-18	15,490	2,927,097,512	9,064,909

WATER OPERATING REVENUES - SYSTEM

Line No.	Acct. No.	Account	Ref. Page	Average Number of Customers	Number of M. Gallons Sold	Revenues
		WATER SALES				
1	461	Metered Water Revenue		Same		
2	461.1	Metered Sales to Residential Customers		As		
3	461.2	Metered Sales to Commercial Customers		Arkansas		
4	461.3	Metered Sales to Industrial Customers				
5	461.4	Metered Sales to Public Authorities				
6	461.5	Metered Sales to Multiple Family Dwellings				
7		Total				
8	460	Unmetered Water Revenue				
9	462	Fire Protection Revenue				
10	462.1	Public Fire Protection				
11	462.2	Private Fire Protection				
12	464	Other Sales to Public Authorities				
13	465	Sales to Irrigation Customers				
14	466	Sales for Resale				
15	467	Interdepartmental Sales				
16		Total				
17		Total Water Sales				
		OTHER WATER REVENUES				
18	470	Forfeited Discounts				
19	471	Misc. Service Revenues				
20	472	Rent from Water Property				
21	473	Interdepartmental Rents				
22	474	Other Water Revenues				
23		Total				
24		TOTAL WATER OPERATING REVENUES	W-18			

WATERWORKS ANNUAL OPERATING REPORT & STATISTICS

Show the particulars called for below. Where space is insufficient for a complete response, continue the item(s) on the continuation sheet provided on page W-33 and identify by page number.

ITEM NO.	ITEM	RESPONSE
1	Name and Location of Community Served	Liberty Utilities (Pine Bluff Water) Inc. Pine Bluff, AR
2	Population of Community Served	38,969
3	Type of Community Served a. Residential only b. Residential with Light Commercial c. Residetial with Commercial, Institutional & Industrial	c. Residentail with Commerical, Institutional and Industrial
4	Source of Water Supply a. Wells (List number, diameter, depth, & proven dependable gpm of each pump) b. Stream without Impoundage (Name stream and list number and capacity in gpm of each pump) c. Lake or Impoundage (Name lake and list number and capacity in gpm capacity of each pump) d. Spare pumps (List number of installed spare source pumps and the gpm capacity of each pump) e. Springs (List number of springs used and capacity in gpm of each pump)	a. see attachment #1 b. N/A c. N/A d. N/A e. N/A

WATERWORKS ANNUAL OPERATING REPORT & STATISTICS

Show the particulars called for below. Where space is insufficient for a complete response, continue the item(s) on the continuation sheet provided on page W-33 and identify by page number.

5	Treatment of Water (List those items below which most nearly describe treatment used) a. Aeration b. Chemical treatment (Briefly describe type) c. Disinfection: i. Chlorination ii. Chlorination and ammonia iii. Hypochloination iv. Ozone v. Other d. Filtration e. Water Stabilization f. Sedimentation g. Softening h. Iron Removal i. Fluoride	a. Aeration b. Corrsion Inhibitor Zinc Orthophate c. Disinfection: Chlorination d. Filtration h. Iron removal i. Flouride
6	Domestic Water Demand a. Annual average, month, 1000 gallons b. Season, max. day, 1000 gallons c. Month, max., 1000 gallons d. Day, max., 1000 gallons e. Hour, 4-hr. max., 1000 gallons	a. 327,011 b. 17,522 c. 352,376 d. 17,522 e. 2,920.33
7	Fire Hydrant Service a. Fire water service not provided b. Fire water service provided c. Fire Flow Test (Include copy of latest fire flow test and report of Insurance Service Office of Arkansas)	b. Yes c. See attachment #2

WATERWORKS ANNUAL OPERATING REPORT & STATISTICS

Show the particulars called for below. Where space is insufficient for a complete response, continue the item(s) on the continuation sheet provided on page W-33 and identify by page number.

8	Finished Water Storage (List number, materials of construction and capacity in gallons of each finished water storage tank) a. Below ground tanks b. Stqandpipes or tanks at ground level c. Elevated Tanks	a. Below Ground Tanks; Concrete (reinforced) 1 - 1,000,000 gallons b. Standpipes or tanks at Ground Level: Steel 1 - 600,000 gallons, 1 - 900,0000 gallons, 1 - 350,000 gallons, 1 - 282,000 gallons, and 1 - 750,000 c.Elevated Tanks: Steel 2 - 500,000 gallons and Steel 2 - 300,000 gallons
9	Distribution System Pressure a. Lowest normal pressure in system b. Highest normal pressure in system c. Average normal system pressure	a. 40 psi b. 80 psi c. 60 psi
10	Purity of Water Supplied a. Number of water samples submitted to Health Department each month b. Number of water samples submitted during year which did not meet Health Department standards c. Free chlorine residual (in milligrams per liter) maintained at plant and at extremities of distribution system	a. 60 b. -0- c. 1.0 mg/L
11	Customer Complaints a. Total number of customer complaints received b. Number of customer complaints concerning purity, wholesomeness, potability, odor or taste of water	a. 54 b. 1

WATERWORKS ANNUAL OPERATING REPORT & STATISTICS

Show the particulars called for below. Where space is insufficient for a complete response, continue the item(s) on the continuation sheet provided on page W-33 and identify by page number.

12	Interruptions of Service a. Number of times and total hours service was intentionally interrupted for required service, maintenance of system or extensions b. Number of times and total hours service was interrupted due to emergencies (loss of power, main breakage, severe storms, etc.)	A. 200 Times 256 Hours B. 9 Times 37 Hours
13	Service Meters by Customer Class (No. of Meters) a. Residential b. Commercial c. Institutional (or public) d. Industrial	a. 12815 b. 1971 c. 258 d. 50
14	Extent of Supply and Distribution System (List by size and the materials of construction total lineal feet of pipe in the supply and distribution system)	See attachment #3
15	Water Operator's License a. Class of Operator's License required by Department of Health b. Name and job title of Company employee(s) holding required Operator's License	a. Class IV Distribution and Class IV Treatment b. Robinson, Bruce – Treatment (Field Supervisor) (Class 4 Water treatment, Class 4 Distribution, Class 3 Wastewater, Basic Industrial Wastewater) Garrick, Philip – Plant Operator (Class 4 treatment, Class 4 Distribution, Class 2 Wastewater, Basic Industrial Wastewater) Young, Ken – Plant Operator Class 2 Water treatment Owens, Charles – Distribution 4 Ross III, Charles F – Distribution 4 Raymick, Thomas – Distribution II (Project Specialist) Dixon, Gary - Distribution II (Field Supervisor) Nicholas Breedlove - Distribution II
16	Electrical Supply a. Electricity purchased from b. Kilowatt-hours consumed c. Identity of rate schedule d. Total cost of electricity consumed	a. Entergy b.8,895,840 c. GT1, GT4, LG1, SG1 d. $863,289.83

WATERWORKS ANNUAL OPERATING REPORT & STATISTICS

Show the particulars called for below. Where space is insufficient for a complete response, continue the item(s) on the continuation sheet provided on page W-33 and identify by page number.

17	Production and Sales for Year a. Total amount of water pumped b. Total amount of water purchased c. Total d. Water sold to consumers e. Water used by fire hydrants and street cleaning f. Water used by respondent g. Total h. Water lost and unaccounted for	a. 3,924.129 MG b. -0- c. 3,924.129 MG d. 2,927.098 MG e. .711 MG f. 194.729 MG g. 3,122.538 MG h. 801.591 MG
18	Maintenance and Distribution System a. Number of dead-end mains in system, 4-inch dia. or larger b. Frequency of flushing above dead-end mains c. Frequency entire distribution system is flushed and all valves and fire hydrants checked for operation d. Frequency treatment plant and all storage tanks are checked for needed cleaning or repairs	a. 22 b. Semi-annual c. Annual d. Annual
19	Adequacy of Waterworks a. In last five years, has there been any shortage of water supply or any bottlenecks in the plant which required any curtailment or restrictions on use of water? If so, describe fully the particulars.	In February, 2021 the Pine Bluff / White Hall area experienced severe weather that resulted in a water system leaks and customer leaks. It took approximately 10 days to identify and repair or isolate all of the leaks. During that 10 day period, even though production was producing nearly 50% more water than normal, system pressure dropped in many areas to the point where customers were affected.

WATERWORKS ANNUAL OPERATING REPORT & STATISTICS

CONTINUATION SHEET

REPORT TO ARKANSAS PUBLIC SERVICE COMMISSION

STATEMENT OF ACCURACY

I do hereby state that the amounts contained in this report are true and accurate, schedules have been cross-referenced by use of the attached check list, and that the accuracy of all totals has been verified by me or under my supervision. Should I or anyone under my supervision become aware of any error in or omission from this report, I will take steps to notify the Arkansas Public Service Commission of such error or omission and provide corrected schedules as soon as possible.

President/General Manager

COMPANY CONTACTS

Company Information	
Company Name	Liberty Utilities (Pine Bluff Water) Inc.
dba	Liberty Utilities
Official Mailing Address	PO Box 6070, Pine Bluff, AR 71611
Mailing Address for APSC Annual Assessment Invoice	Liberty Utilities (Pine Bluff Water) Inc.

AREA	PERSON TO CONTACT	PHONE #	FAX #	E-MAIL
Annual Report	Christi Botts	417-625-6555	NA	Christi.Botts@libertyutilities.com
APSC Annual Assessment	Karen Heady	417-625-4259	NA	Karen.Heady@libertyutilities.com
Cost of Pumping Report	Dede Smith	870-727-9445	870-534-2037	Dede.Smith@libertyutilities.com
Tariffs	Jill Schwartz	417-625-5100	NA	Jschwartz@libertyutilities.com
Accounting	Jennifer Shewmake	417-626-6828	NA	Jennifer.Shewmake@libertyutilities.com
Rates	Jill Schwartz	417-625-5100	NA	Jschwartz@libertyutilities.com
Engineering	Tony Penna	870-727-9456	NA	Tony.Penna@libertyutilities.com
Finance	Jennifer Shewmake	417-626-6828	NA	Jennifer.Shewmake@libertyutilities.com
Income Taxes	Michael McCuen	417-625-5100	NA	Michael.McCuen@libertyutilities.com
Property Taxes	Michael McCuen	417-625-5100	NA	Michael.McCuen@libertyutilities.com
Legal	Kenneth Tillotson	417-625-5100	NA	Kenneth.Tillotson@libertyutilities.com
Data Processing	Jennifer Shewmake	417-626-6828	NA	Jennifer.Shewmake@libertyutilities.com

Please list the number of utility employees located in Arkansas 25 .

Attachment #1

Liberty Utilities - Pine Bluff
As of 12/31/2021

Well #	Diameter	Well Depth	Pump Capacity GPM	Pumps To:
14	16"	861	1544	Plant 2
16	16"	847	1884	Plant 2
19	18"	847	1820	Plant 2
21	18"	879	1730	Plant 2
15	16"	844	1100	Plant 1
17	16"	883	1550	Plant 1
18	18"	876	Out of service	Plant 1
20	18"	864	1290	Plant 1
22	18"	859	1461	Plant 1
23	16"	904	1949	Plant 3
24	16"	910	1879	Plant 3
25	18"	931	1624	Plant 3
26	18"	919	1856	Plant 3
1	10"	868	310- out of service	Plant 4
2	10	904	460	Plant 4
3	18"	911	1380	Plant 4

Attachment #2

1000 Bishops Gate Blvd. Ste 300
Mt. Laurel, NJ 08054-5404

t1.800.444.4554 Opt.2
f1.800.777.3929

February 19, 2018

Ms. Shirley Washington, Mayor
Pine Bluff
200 E 8th Street
Pine Bluff, Arkansas, 71601

RE: Pine Bluff, Jefferson County, Arkansas
Public Protection Classification: 02/2X
Effective Date: June 01, 2018

Dear Ms. Shirley Washington,

We wish to thank you and Mr. Shawn Howell for your cooperation during our recent Public Protection Classification (PPC) survey. ISO has completed its analysis of the structural fire suppression delivery system provided in your community. The resulting classification is indicated above.

If you would like to know more about your community's PPC classification, or if you would like to learn about the potential effect of proposed changes to your fire suppression delivery system, please call us at the phone number listed below.

ISO's Public Protection Classification Program (PPC) plays an important role in the underwriting process at insurance companies. In fact, most U.S. insurers – including the largest ones – use PPC information as part of their decision- making when deciding what business to write, coverage's to offer or prices to charge for personal or commercial property insurance.

Each insurance company independently determines the premiums it charges its policyholders. The way an insurer uses ISO's information on public fire protection may depend on several things – the company's fire-loss experience, ratemaking methodology, underwriting guidelines, and its marketing strategy.

Through ongoing research and loss experience analysis, we identified additional differentiation in fire loss experience within our PPC program, which resulted in the revised classifications. We based the differing fire loss experience on the fire suppression capabilities of each community. The new classifications will improve the predictive value for insurers while benefiting both commercial and residential property owners. We've published the new classifications as "X" and "Y" — formerly the "9" and "8B" portion of the split classification, respectively. For example:

- A community currently graded as a split 6/9 classification will now be a split 6/6X classification; with the "6X" denoting what was formerly classified as "9."
- Similarly, a community currently graded as a split 6/8B classification will now be a split 6/6Y classification, the "6Y" denoting what was formerly classified as "8B."

- Communities graded with single "9" or "8B" classifications will remain intact.
- Properties over 5 road miles from a recognized fire station would receive a class 10.

PPC is important to communities and fire departments as well. Communities whose PPC improves may get lower insurance prices. PPC also provides fire departments with a valuable benchmark, and is used by many departments as a valuable tool when planning, budgeting and justifying fire protection improvements.

ISO appreciates the high level of cooperation extended by local officials during the entire PPC survey process. The community protection baseline information gathered by ISO is an essential foundation upon which determination of the relative level of fire protection is made using the Fire Suppression Rating Schedule.

The classification is a direct result of the information gathered, and is dependent on the resource levels devoted to fire protection in existence at the time of survey. Material changes in those resources that occur after the survey is completed may affect the classification. Although ISO maintains a pro-active process to keep baseline information as current as possible, in the event of changes please call us at 1-800-444-4554, option 2 to expedite the update activity.

ISO is the leading supplier of data and analytics for the property/casualty insurance industry. Most insurers use PPC classifications for underwriting and calculating premiums for residential, commercial and industrial properties. The PPC program is not intended to analyze all aspects of a comprehensive structural fire suppression delivery system program. It is not for purposes of determining compliance with any state or local law, nor is it for making loss prevention or life safety recommendations.

If you have any questions about your classification, please let us know.

Sincerely,

Alex Shubert

Alex Shubert
Manager -National Processing Center

cc: Ms. Karen Blevins, Supervisor, Metro Emergency Communications Assoc - Jefferson CO
Mr. Shawn Howell, Chief, Pine Bluff Fire Department
Mr. Bruce Robinson, Superintendent, Liberty Utilities

Public Protection Classification

(PPC™)

Summary Report

Pine Bluff

ARKANSAS

Prepared by

Insurance Services Office, Inc.
1000 Bishops Gate Blvd., Ste. 300
P.O. Box 5404
Mt. Laurel, New Jersey 08054-5404
1-800-444-4554

Report Created February 2018

Effective June 1, 2018

PPC is a registered trademark of Insurance Services Office, Inc.

Background Information

Introduction

ISO collects and evaluates information from communities in the United States on their structure fire suppression capabilities. The data is analyzed using our Fire Suppression Rating Schedule (FSRS) and then a Public Protection Classification (PPC™) grade is assigned to the community. The surveys are conducted whenever it appears that there is a possibility of a PPC change. As such, the PPC program provides important, up-to-date information about fire protection services throughout the country.

The FSRS recognizes fire protection features only as they relate to suppression of first alarm structure fires. In many communities, fire suppression may be only a small part of the fire department's overall responsibility. ISO recognizes the dynamic and comprehensive duties of a community's fire service, and understands the complex decisions a community must make in planning and delivering emergency services. However, in developing a community's PPC grade, only features related to reducing property losses from structural fires are evaluated. Multiple alarms, simultaneous incidents and life safety are not considered in this evaluation. The PPC program evaluates the fire protection for small to average size buildings. Specific properties with a Needed Fire Flow in excess of 3,500 gpm are evaluated separately and assigned an individual PPC grade.

A community's investment in fire mitigation is a proven and reliable predictor of future fire losses. Statistical data on insurance losses bears out the relationship between excellent fire protection – as measured by the PPC program – and low fire losses. So, insurance companies use PPC information for marketing, underwriting, and to help establish fair premiums for homeowners and commercial fire insurance. In general, the price of fire insurance in a community with a good PPC grade is substantially lower than in a community with a poor PPC grade, assuming all other factors are equal.

ISO is an independent company that serves insurance companies, communities, fire departments, insurance regulators, and others by providing information about risk. ISO's expert staff collects information about municipal fire suppression efforts in communities throughout the United States. In each of those communities, ISO analyzes the relevant data and assigns a PPC grade – a number from 1 to 10. Class 1 represents an exemplary fire suppression program, and Class 10 indicates that the area's fire suppression program does not meet ISO's minimum criteria.

ISO's PPC program evaluates communities according to a uniform set of criteria, incorporating nationally recognized standards developed by the National Fire Protection Association and the American Water Works Association. A community's PPC grade depends on:

- **Needed Fire Flows**, which are representative building locations used to determine the theoretical amount of water necessary for fire suppression purposes.
- **Emergency Communications**, including emergency reporting, telecommunicators, and dispatching systems.
- **Fire Department**, including equipment, staffing, training, geographic distribution of fire companies, operational considerations, and community risk reduction.
- **Water Supply**, including inspection and flow testing of hydrants, alternative water supply operations, and a careful evaluation of the amount of available water compared with the amount needed to suppress fires up to 3,500 gpm.

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Data Collection and Analysis

ISO has evaluated and classified over 46,000 fire protection areas across the United States using its FSRS. A combination of meetings between trained ISO field representatives and the dispatch center coordinator, community fire official, and water superintendent is used in conjunction with a comprehensive questionnaire to collect the data necessary to determine the PPC grade. In order for a community to obtain a grade better than a Class 9, three elements of fire suppression features are reviewed. These three elements are Emergency Communications, Fire Department, and Water Supply.

A review of the **Emergency Communications** accounts for 10% of the total classification. This section is weighted at **10 points,** as follows:

- Emergency Reporting 3 points
- Telecommunicators 4 points
- Dispatch Circuits 3 points

A review of the **Fire Department** accounts for 50% of the total classification. ISO focuses on a fire department's first alarm response and initial attack to minimize potential loss. The fire department section is weighted at **50 points,** as follows:

- Engine Companies 6 points
- Reserve Pumpers 0.5 points
- Pump Capacity 3 points
- Ladder/Service Companies 4 points
- Reserve Ladder/Service Trucks 0.5 points
- Deployment Analysis 10 points
- Company Personnel 15 points
- Training 9 points
- Operational considerations 2 points
- Community Risk Reduction 5.5 points (in addition to the 50 points above)

A review of the **Water Supply** system accounts for 40% of the total classification. ISO reviews the water supply a community uses to determine the adequacy for fire suppression purposes. The water supply system is weighted at **40 points,** as follows:

- Credit for Supply System 30 points
- Hydrant Size, Type & Installation 3 points
- Inspection & Flow Testing of Hydrants 7 points

There is one additional factor considered in calculating the final score – **Divergence**.

Even the best fire department will be less than fully effective if it has an inadequate water supply. Similarly, even a superior water supply will be less than fully effective if the fire department lacks the equipment or personnel to use the water. The FSRS score is subject to modification by a divergence factor, which recognizes disparity between the effectiveness of the fire department and the water supply.

The Divergence factor mathematically reduces the score based upon the relative difference between the fire department and water supply scores. The factor is introduced in the final equation.

PPC Grade

The PPC grade assigned to the community will depend on the community's score on a 100-point scale:

PPC	Points
1	90.00 or more
2	80.00 to 89.99
3	70.00 to 79.99
4	60.00 to 69.99
5	50.00 to 59.99
6	40.00 to 49.99
7	30.00 to 39.99
8	20.00 to 29.99
9	10.00 to 19.99
10	0.00 to 9.99

The classification numbers are interpreted as follows:

- Class 1 through (and including) Class 8 represents a fire suppression system that includes an FSRS creditable dispatch center, fire department, and water supply.
- Class 8B is a special classification that recognizes a superior level of fire protection in otherwise Class 9 areas. It is designed to represent a fire protection delivery system that is superior except for a lack of a water supply system capable of the minimum FSRS fire flow criteria of 250 gpm for 2 hours.
- Class 9 is a fire suppression system that includes a creditable dispatch center, fire department but no FSRS creditable water supply.
- Class 10 does not meet minimum FSRS criteria for recognition, including areas that are beyond five road miles of a recognized fire station.

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New PPC program changes effective July 1, 2014

We have revised the PPC program to capture the effects of enhanced fire protection capabilities that reduce fire loss and fire severity in Split Class 9 and Split Class 8B areas (as outlined below). This new structure benefits the fire service, community, and property owner.

New classifications

Through ongoing research and loss experience analysis, we identified additional differentiation in fire loss experience within our PPC program, which resulted in the revised classifications. We based the differing fire loss experience on the fire suppression capabilities of each community. The new PPC classes will improve the predictive value for insurers while benefiting both commercial and residential property owners. Here are the new classifications and what they mean.

Split classifications

When we develop a split classification for a community — for example 5/9 — the first number is the class that applies to properties within 5 road miles of the responding fire station and 1,000 feet of a creditable water supply, such as a fire hydrant, suction point, or dry hydrant. The second number is the class that applies to properties within 5 road miles of a fire station but beyond 1,000 feet of a creditable water supply. We have revised the classification to reflect more precisely the risk of loss in a community, replacing Class 9 and 8B in the second part of a split classification with revised designations.

What's changed with the new classifications?

We've published the new classifications as "X" and "Y" — formerly the "9" and "8B" portion of the split classification, respectively. For example:

- A community currently displayed as a split 6/9 classification will now be a split 6/6X classification; with the "6X" denoting what was formerly classified as "9".
- Similarly, a community currently graded as a split 6/8B classification will now be a split 6/6Y classification, the "6Y" denoting what was formerly classified as "8B".
- Communities graded with single "9" or "8B" classifications will remain intact.

Prior Classification	New Classification
1/9	1/1X
2/9	2/2X
3/9	3/3X
4/9	4/4X
5/9	5/5X
6/9	6/6X
7/9	7/7X
8/9	8/8X
9	9

Prior Classification	New Classification
1/8B	1/1Y
2/8B	2/2Y
3/8B	3/3Y
4/8B	4/4Y
5/8B	5/5Y
6/8B	6/6Y
7/8B	7/7Y
8/8B	8/8Y
8B	8B

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What's changed?
As you can see, we're still maintaining split classes, but it's how we represent them to insurers that's changed. The new designations reflect a reduction in fire severity and loss and have the potential to reduce property insurance premiums.

Benefits of the revised split class designations

- To the fire service, the revised designations identify enhanced fire suppression capabilities used throughout the fire protection area
- To the community, the new classes reward a community's fire suppression efforts by showing a more reflective designation
- To the individual property owner, the revisions offer the potential for decreased property insurance premiums

New water class
Our data also shows that risks located more than 5 but less than 7 road miles from a responding fire station with a creditable water source within 1,000 feet had better loss experience than those farther than 5 road miles from a responding fire station with no creditable water source. We've introduced a new classification —10W — to recognize the reduced loss potential of such properties.

What's changed with Class 10W?
Class 10W is property-specific. Not all properties in the 5-to-7-mile area around the responding fire station will qualify. The difference between Class 10 and 10W is that the 10W-graded risk or property is within 1,000 feet of a creditable water supply. Creditable water supplies include fire protection systems using hauled water in any of the split classification areas.

What's the benefit of Class 10W?
10W gives credit to risks within 5 to 7 road miles of the responding fire station and within 1,000 feet of a creditable water supply. That's reflective of the potential for reduced property insurance premiums.

What does the fire chief have to do?
Fire chiefs don't have to do anything at all. The revised classifications went in place automatically effective July 1, 2014 (July 1, 2015 for Texas).

What if I have additional questions?
Feel free to contact ISO at 800.444.4554 or email us at PPC-Cust-Serv@iso.com.

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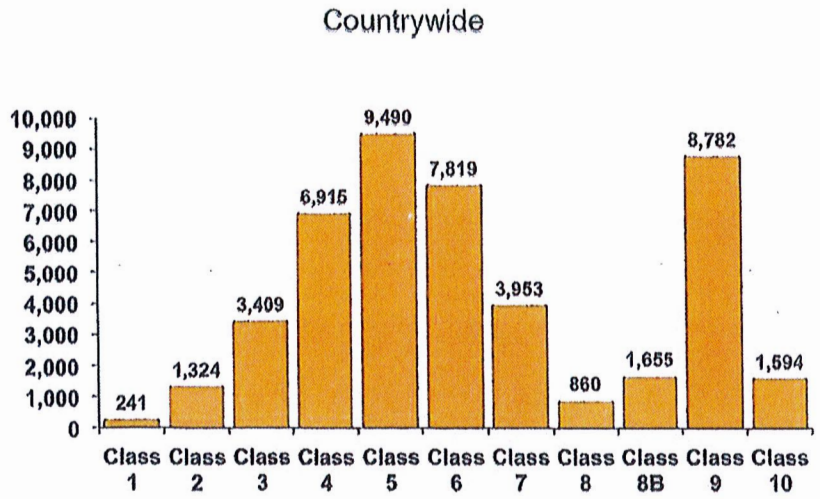
Distribution of PPC Grades

The 2017 published countrywide distribution of communities by the PPC grade is as follows:



Assistance

The PPC program offers help to communities, fire departments, and other public officials as they plan for, budget, and justify improvements. ISO is also available to assist in the understanding of the details of this evaluation.

The PPC program representatives can be reached by telephone at (800) 444-4554. The technical specialists at this telephone number have access to the details of this evaluation and can effectively speak with you about your questions regarding the PPC program. What's more, we can be reached via the internet at www.isomitigation.com/talk/.

We also have a website dedicated to our Community Hazard Mitigation Classification programs at www.isomitigation.com. Here, fire chiefs, building code officials, community leaders and other interested citizens can access a wealth of data describing the criteria used in evaluating how cities and towns are protecting residents from fire and other natural hazards. This website will allow you to learn more about the PPC program. The website provides important background information, insights about the PPC grading processes and technical documents. ISO is also pleased to offer Fire Chiefs Online — a special, secured website with information and features that can help improve your PPC grade, including a list of the Needed Fire Flows for all the commercial occupancies ISO has on file for your community. Visitors to the site can download information, see statistical results and also contact ISO for assistance.

In addition, on-line access to the FSRS and its commentaries is available to registered customers for a fee. However, fire chiefs and community chief administrative officials are given access privileges to this information without charge.

To become a registered fire chief or community chief administrative official, register at www.isomitigation.com.

PPC Review

ISO concluded its review of the fire suppression features being provided for Pine Bluff. The resulting community classification is **Class 02/2X**.

If the classification is a single class, the classification applies to properties with a Needed Fire Flow of 3,500 gpm or less in the community. If the classification is a split class (e.g., 6/XX):

- The first class (e.g., "6" in a 6/XX) applies to properties within 5 road miles of a recognized fire station and within 1,000 feet of a fire hydrant or alternate water supply.
- The second class (XX or XY) applies to properties beyond 1,000 feet of a fire hydrant but within 5 road miles of a recognized fire station.
- Alternative Water Supply: The first class (e.g., "6" in a 6/10) applies to properties within 5 road miles of a recognized fire station with no hydrant distance requirement.
- Class 10 applies to properties over 5 road miles of a recognized fire station.
- Class 10W applies to properties within 5 to 7 road miles of a recognized fire station with a recognized water supply within 1,000 feet.
- Specific properties with a Needed Fire Flow in excess of 3,500 gpm are evaluated separately and assigned an individual classification.

FSRS Feature	Earned Credit	Credit Available
Emergency Communications		
414. Credit for Emergency Reporting	2.55	3
422. Credit for Telecommunicators	4.00	4
432. Credit for Dispatch Circuits	2.85	3
440. Credit for Emergency Communications	9.40	10
Fire Department		
513. Credit for Engine Companies	6.00	6
523. Credit for Reserve Pumpers	0.50	0.50
532. Credit for Pump Capacity	3.00	3
549. Credit for Ladder Service	3.86	4
553. Credit for Reserve Ladder and Service Trucks	0.48	0.50
561. Credit for Deployment Analysis	9.17	10
571. Credit for Company Personnel	7.22	15
581. Credit for Training	8.65	9
730. Credit for Operational Considerations	2.00	2
590. Credit for Fire Department	40.88	50
Water Supply		
616. Credit for Supply System	28.56	30
621. Credit for Hydrants	2.99	3
631. Credit for Inspection and Flow Testing	4.80	7
640. Credit for Water Supply	36.35	40
Divergence	-1.82	--
1050. Community Risk Reduction	4.38	5.50
Total Credit	89.19	105.50

Emergency Communications

Ten percent of a community's overall score is based on how well the communications center receives and dispatches fire alarms. Our field representative evaluated:

- Communications facilities provided for the general public to report structure fires
- Enhanced 9-1-1 Telephone Service including wireless
- Computer-aided dispatch (CAD) facilities
- Alarm receipt and processing at the communication center
- Training and certification of telecommunicators
- Facilities used to dispatch fire department companies to reported structure fires

	Earned Credit	Credit Available
414. Credit Emergency Reporting	**2.55**	3
422. Credit for Telecommunicators	**4.00**	4
432. Credit for Dispatch Circuits	**2.85**	3
Item 440. Credit for Emergency Communications:	**9.40**	**10**

Item 414 - Credit for Emergency Reporting (3 points)

The first item reviewed is Item 414 "Credit for Emergency Reporting (CER)". This item reviews the emergency communication center facilities provided for the public to report fires including 911 systems (Basic or Enhanced), Wireless Phase I and Phase II, Voice over Internet Protocol, Computer Aided Dispatch and Geographic Information Systems for automatic vehicle location. ISO uses National Fire Protection Association (NFPA) 1221, *Standard for the Installation, Maintenance and Use of Emergency Services Communications Systems* as the reference for this section.

Item 410. Emergency Reporting (CER)	Earned Credit	Credit Available
A./B. Basic 9-1-1, Enhanced 9-1-1 or No 9-1-1 For maximum credit, there should be an Enhanced 9-1-1 system, Basic 9-1-1 and No 9-1-1 will receive partial credit.	20.00	20
1. E9-1-1 Wireless Wireless Phase I using Static ALI (automatic location identification) Functionality (10 points); Wireless Phase II using Dynamic ALI Functionality (15 points); Both available will be 25 points	25.00	25
2. E9-1-1 Voice over Internet Protocol (VoIP) Static VoIP using Static ALI Functionality (10 points); Nomadic VoIP using Dynamic ALI Functionality (15 points); Both available will be 25 points	25.00	25
3. Computer Aided Dispatch Basic CAD (5 points); CAD with Management Information System (5 points); CAD with Interoperability (5 points)	15.00	15
4. Geographic Information System (GIS/AVL) The PSAP uses a fully integrated CAD/GIS management system with automatic vehicle location (AVL) integrated with a CAD system providing dispatch assignments. The individual fire departments being dispatched do not need GIS/AVL capability to obtain this credit.	0.00	15
Review of Emergency Reporting total:	85.00	100

Item 422- Credit for Telecommunicators (4 points)

The second item reviewed is Item 422 "Credit for Telecommunicators (TC)". This item reviews the number of Telecommunicators on duty at the center to handle fire calls and other emergencies. All emergency calls including those calls that do not require fire department action are reviewed to determine the proper staffing to answer emergency calls and dispatch the appropriate emergency response. The 2013 Edition of NFPA 1221, *Standard for the Installation, Maintenance and Use of Emergency Services Communications Systems,* recommends that ninety-five percent of emergency calls shall be answered within 15 seconds and ninety-nine percent of emergency calls shall be answered within 40 seconds. In addition, NFPA recommends that eighty percent of emergency alarm processing shall be completed within 60 seconds and ninety-five percent of alarm processing shall be completed within 106 seconds of answering the call.

To receive full credit for operators on duty, ISO must review documentation to show that the communication center meets NFPA 1221 call answering and dispatch time performance measurement standards. This documentation may be in the form of performance statistics or other performance measurements compiled by the 9-1-1 software or other software programs that are currently in use such as Computer Aided Dispatch (CAD) or Management Information System (MIS).

Item 420. Telecommunicators (CTC)	Earned Credit	Credit Available
A1. Alarm Receipt (AR) Receipt of alarms shall meet the requirements in accordance with the criteria of NFPA 1221	20.00	20
A2. Alarm Processing (AP) Processing of alarms shall meet the requirements in accordance with the criteria of NFPA 1221	20.00	20
B. Emergency Dispatch Protocols (EDP) Telecommunicators have emergency dispatch protocols (EDP) containing questions and a decision-support process to facilitate correct call categorization and prioritization.	20.00	20
C. Telecommunicator Training and Certification (TTC) Telecommunicators meet the qualification requirements referenced in NFPA 1061, *Standard for Professional Qualifications for Public Safety Telecommunicator,* and/or the Association of Public-Safety Communications Officials - International (APCO) *Project 33.* Telecommunicators are certified in the knowledge, skills, and abilities corresponding to their job functions.	20.00	20
D. Telecommunicator Continuing Education and Quality Assurance (TQA) Telecommunicators participate in continuing education and/or in-service training and quality-assurance programs as appropriate for their positions	20.00	20
Review of Telecommunicators total:	100.00	100

Item 432 - Credit for Dispatch Circuits (3 points)

The third item reviewed is Item 432 "Credit for Dispatch Circuits (CDC)". This item reviews the dispatch circuit facilities used to transmit alarms to fire department members. A "Dispatch Circuit" is defined in NFPA 1221 as "A circuit over which an alarm is transmitted from the communications center to an emergency response facility (ERF) or emergency response units (ERUs) to notify ERUs to respond to an emergency". All fire departments (except single fire station departments with full-time firefighter personnel receiving alarms directly at the fire station) need adequate means of notifying all firefighter personnel of the location of reported structure fires. The dispatch circuit facilities should be in accordance with the general criteria of NFPA 1221. "Alarms" are defined in this Standard as "A signal or message from a person or device indicating the existence of an emergency or other situation that requires action by an emergency response agency".

There are two different levels of dispatch circuit facilities provided for in the Standard – a primary dispatch circuit and a secondary dispatch circuit. In jurisdictions that receive 730 alarms or more per year (average of two alarms per 24-hour period), two separate and dedicated dispatch circuits, a primary and a secondary, are needed. In jurisdictions receiving fewer than 730 alarms per year, a second dedicated dispatch circuit is not needed. Dispatch circuit facilities installed but not used or tested (in accordance with the NFPA Standard) receive no credit.

The score for Credit for Dispatch Circuits (CDC) is influenced by monitoring for integrity of the primary dispatch circuit. There are up to 0.90 points available for this Item. Monitoring for integrity involves installing automatic systems that will detect faults and failures and send visual and audible indications to appropriate communications center (or dispatch center) personnel. ISO uses NFPA 1221 to guide the evaluation of this item. ISO's evaluation also includes a review of the communication system's emergency power supplies.

Item 432 "Credit for Dispatch Circuits (CDC)" = 2.85 points

Fire Department

Fifty percent of a community's overall score is based upon the fire department's structure fire suppression system. ISO's field representative evaluated:

- Engine and ladder/service vehicles including reserve apparatus
- Equipment carried
- Response to reported structure fires
- Deployment analysis of companies
- Available and/or responding firefighters
- Training

	Earned Credit	Credit Available
513. Credit for Engine Companies	**6.00**	6
523. Credit for Reserve Pumpers	**0.50**	0.5
532. Credit for Pumper Capacity	**3.00**	3
549. Credit for Ladder Service	**3.86**	4
553. Credit for Reserve Ladder and Service Trucks	**0.48**	0.5
561. Credit for Deployment Analysis	**9.17**	10
571. Credit for Company Personnel	**7.22**	15
581. Credit for Training	**8.65**	9
730. Credit for Operational Considerations	**2.00**	2
Item 590. Credit for Fire Department:	**40.88**	**50**

Basic Fire Flow

The Basic Fire Flow for the community is determined by the review of the Needed Fire Flows for selected buildings in the community. The fifth largest Needed Fire Flow is determined to be the Basic Fire Flow. The Basic Fire Flow has been determined to be 3500 gpm.

Item 513 - Credit for Engine Companies (6 points)

The first item reviewed is Item 513 "Credit for Engine Companies (CEC)". This item reviews the number of engine companies, their pump capacity, hose testing, pump testing and the equipment carried on the in-service pumpers. To be recognized, pumper apparatus must meet the general criteria of NFPA 1901, *Standard for Automotive Fire Apparatus* which include a minimum 250 gpm pump, an emergency warning system, a 300 gallon water tank, and hose. At least 1 apparatus must have a permanently mounted pump rated at 750 gpm or more at 150 psi.

The review of the number of needed pumpers considers the response distance to built-upon areas; the Basic Fire Flow; and the method of operation. Multiple alarms, simultaneous incidents, and life safety are not considered.

The greatest value of A, B, or C below is needed in the fire district to suppress fires in structures with a Needed Fire Flow of 3,500 gpm or less: **7 engine companies**

a) **7 engine companies** to provide fire suppression services to areas to meet NFPA 1710 criteria or within 1½ miles.

b) **3 engine companies** to support a Basic Fire Flow of 3500 gpm.

c) **3 engine companies** based upon the fire department's method of operation to provide a minimum two engine response to all first alarm structure fires.

The FSRS recognizes that there are **7 engine companies** in service.

The FSRS also reviews Automatic Aid. Automatic Aid is considered in the review as assistance dispatched automatically by contractual agreement between two communities or fire districts. That differs from mutual aid or assistance arranged case by case. ISO will recognize an Automatic Aid plan under the following conditions:

- It must be prearranged for first alarm response according to a definite plan. It is preferable to have a written agreement, but ISO may recognize demonstrated performance.
- The aid must be dispatched to all reported structure fires on the initial alarm.
- The aid must be provided 24 hours a day, 365 days a year.

FSRS Item 512.D "Automatic Aid Engine Companies" responding on first alarm and meeting the needs of the city for basic fire flow and/or distribution of companies are factored based upon the value of the Automatic Aid plan (up to 1.00 can be used as the factor). The Automatic Aid factor is determined by a review of the Automatic Aid provider's communication facilities, how they receive alarms from the graded area, inter-department training between fire departments, and the fire ground communications capability between departments.

For each engine company, the credited Pump Capacity (PC), the Hose Carried (HC), the Equipment Carried (EC) all contribute to the calculation for the percent of credit the FSRS provides to that engine company.

Item 513 "Credit for Engine Companies (CEC)" = 6.00 points

Item 523 - Credit for Reserve Pumpers (0.50 points)

The item is Item 523 "Credit for Reserve Pumpers (CRP)". This item reviews the number and adequacy of the pumpers and their equipment. The number of needed reserve pumpers is 1 for each 8 needed engine companies determined in Item 513, or any fraction thereof.

Item 523 "Credit for Reserve Pumpers (CRP)" = 0.50 points

Item 532 – Credit for Pumper Capacity (3 points)

The next item reviewed is Item 532 "Credit for Pumper Capacity (CPC)". The total pump capacity available should be sufficient for the Basic Fire Flow of 3500 gpm. The maximum needed pump capacity credited is the Basic Fire Flow of the community.

Item 532 "Credit for Pumper Capacity (CPC)" = 3.00 points

Item 549 – Credit for Ladder Service (4 points)

The next item reviewed is Item 549 "Credit for Ladder Service (CLS)". This item reviews the number of response areas within the city with 5 buildings that are 3 or more stories or 35 feet or more in height, or with 5 buildings that have a Needed Fire Flow greater than 3,500 gpm, or any combination of these criteria. The height of all buildings in the city, including those protected by automatic sprinklers, is considered when determining the number of needed ladder companies. Response areas not needing a ladder company should have a service company. Ladders, tools and equipment normally carried on ladder trucks are needed not only for ladder operations but also for forcible entry, ventilation, salvage, overhaul, lighting and utility control.

The number of ladder or service companies, the height of the aerial ladder, aerial ladder testing and the equipment carried on the in-service ladder trucks and service trucks is compared with the number of needed ladder trucks and service trucks and an FSRS equipment list. Ladder trucks must meet the general criteria of NFPA 1901, *Standard for Automotive Fire Apparatus* to be recognized.

The number of needed ladder-service trucks is dependent upon the number of buildings 3 stories or 35 feet or more in height, buildings with a Needed Fire Flow greater than 3,500 gpm, and the method of operation.

The FSRS recognizes that there are **2 ladder companies** in service. These companies are needed to provide fire suppression services to areas to meet NFPA 1710 criteria or within 2½ miles and the number of buildings with a Needed Fire Flow over 3,500 gpm or 3 stories or more in height, or the method of operation.

The FSRS recognizes that there are **0 service companies** in service.

Item 549 "Credit for Ladder Service (CLS)" = 3.86 points

Item 553 – Credit for Reserve Ladder and Service Trucks (0.50 points)

The next item reviewed is Item 553 "Credit for Reserve Ladder and Service Trucks (CRLS)". This item considers the adequacy of ladder and service apparatus when one (or more in larger communities) of these apparatus are out of service. The number of needed reserve ladder and service trucks is 1 for each 8 needed ladder and service companies that were determined to be needed in Item 540, or any fraction thereof.

Item 553 "Credit for Reserve Ladder and Service Trucks (CRLS)" = 0.48 points

Item 561 – Deployment Analysis (10 points)

Next, Item 561 "Deployment Analysis (DA)" is reviewed. This Item examines the number and adequacy of existing engine and ladder-service companies to cover built-upon areas of the city.

To determine the Credit for Distribution, first the Existing Engine Company (EC) points and the Existing Engine Companies (EE) determined in Item 513 are considered along with Ladder Company Equipment (LCE) points, Service Company Equipment (SCE) points, Engine-Ladder Company Equipment (ELCE) points, and Engine-Service Company Equipment (ESCE) points determined in Item 549.

Secondly, as an alternative to determining the number of needed engine and ladder/service companies through the road-mile analysis, a fire protection area may use the results of a systematic performance evaluation. This type of evaluation analyzes computer-aided dispatch (CAD) history to demonstrate that, with its current deployment of companies, the fire department meets the time constraints for initial arriving engine and initial full alarm assignment in accordance with the general criteria of in NFPA 1710, *Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments.*

A determination is made of the percentage of built upon area within 1½ miles of a first-due engine company and within 2½ miles of a first-due ladder-service company.

Item 561 "Credit Deployment Analysis (DA)" = 9.17 points

Item 571 – Credit for Company Personnel (15 points)

Item 571 "Credit for Company Personnel (CCP)" reviews the average number of existing firefighters and company officers available to respond to reported first alarm structure fires in the city.

The on-duty strength is determined by the yearly average of total firefighters and company officers on-duty considering vacations, sick leave, holidays, "Kelley" days and other absences. When a fire department operates under a minimum staffing policy, this may be used in lieu of determining the yearly average of on-duty company personnel.

Firefighters on apparatus not credited under Items 513 and 549 that regularly respond to reported first alarms to aid engine, ladder, and service companies are included in this item as increasing the total company strength.

Firefighters staffing ambulances or other units serving the general public are credited if they participate in fire-fighting operations, the number depending upon the extent to which they are available and are used for response to first alarms of fire.

On-Call members are credited on the basis of the average number staffing apparatus on first alarms. Off-shift career firefighters and company officers responding on first alarms are considered on the same basis as on-call personnel. For personnel not normally at the fire station, the number of responding firefighters and company officers is divided by 3 to reflect the time needed to assemble at the fire scene and the reduced ability to act as a team due to the various arrival times at the fire location when compared to the personnel on-duty at the fire station during the receipt of an alarm.

The number of Public Safety Officers who are positioned in emergency vehicles within the jurisdiction boundaries may be credited based on availability to respond to first alarm structure fires. In recognition of this increased response capability the number of responding Public Safety Officers is divided by 2.

The average number of firefighters and company officers responding with those companies credited as Automatic Aid under Items 513 and 549 are considered for either on-duty or on-call company personnel as is appropriate. The actual number is calculated as the average number of company personnel responding multiplied by the value of AA Plan determined in Item 512.D.

The maximum creditable response of on-duty and on-call firefighters is 12, including company officers, for each existing engine and ladder company and 6 for each existing service company.

Chief Officers are not creditable except when more than one chief officer responds to alarms; then extra chief officers may be credited as firefighters if they perform company duties.

The FSRS recognizes **26.00 on-duty personnel** and an average of **0.00 on-call personnel** responding on first alarm structure fires.

Item 571 "Credit for Company Personnel (CCP)" = 7.22 points

Item 581 – Credit for Training (9 points)

Training	Earned Credit	Credit Available
A. Facilities, and Use For maximum credit, each firefighter should receive 18 hours per year in structure fire related subjects as outlined in NFPA 1001.	35.0(	35
B. Company Training For maximum credit, each firefighter should receive 16 hours per month in structure fire related subjects as outlined in NFPA 1001.	25.00	25
C. Classes for Officers For maximum credit, each officer should be certified in accordance with the general criteria of NFPA 1021. Additionally, each officer should receive 12 hours of continuing education on or off site.	8.06	12
D. New Driver and Operator Training For maximum credit, each new driver and operator should receive 60 hours of driver/operator training per year in accordance with NFPA 1002 and NFPA 1451.	5.00	5
E. Existing Driver and Operator Training For maximum credit, each existing driver and operator should receive 12 hours of driver/operator training per year in accordance with NFPA 1002 and NFPA 1451.	5.00	5
F. Training on Hazardous Materials For maximum credit, each firefighter should receive 6 hours of training for incidents involving hazardous materials in accordance with NFPA 472.	1.00	1
G. Recruit Training For maximum credit, each firefighter should receive 240 hours of structure fire related training in accordance with NFPA 1001 within the first year of employment or tenure.	5.00	5
H. Pre-Fire Planning Inspections For maximum credit, pre-fire planning inspections of each commercial, industrial, institutional, and other similar type building (all buildings except 1-4 family dwellings) should be made annually by company members. Records of inspections should include up-to date notes and sketches.	12.0(	12

Item 580 "Credit for Training (CT)" = 8.65 points

Item 730 – Operational Considerations (2 points)

Item 730 "Credit for Operational Considerations (COC)" evaluates fire department standard operating procedures and incident management systems for emergency operations involving structure fires.

Operational Considerations	Earned Credit	Credit Available
Standard Operating Procedures The department should have established SOPs for fire department general emergency operations	50	50
Incident Management Systems The department should use an established incident management system (IMS)	50	50
Operational Considerations total:	100	100

Item 730 "Credit for Operational Considerations (COC)" = 2.00 points

Water Supply

Forty percent of a community's overall score is based on the adequacy of the water supply system. The ISO field representative evaluated:

- the capability of the water distribution system to meet the Needed Fire Flows at selected locations up to 3,500 gpm.
- size, type and installation of fire hydrants.
- inspection and flow testing of fire hydrants.

	Earned Credit	Credit Available
616. Credit for Supply System	**28.56**	30
621. Credit for Hydrants	**2.99**	3
631. Credit for Inspection and Flow Testing	**4.80**	7
Item 640. Credit for Water Supply:	**36.35**	**40**

Item 616 – Credit for Supply System (30 points)

The first item reviewed is Item 616 "Credit for Supply System (CSS)". This item reviews the rate of flow that can be credited at each of the Needed Fire Flow test locations considering the supply works capacity, the main capacity and the hydrant distribution. The lowest flow rate of these items is credited for each representative location. A water system capable of delivering 250 gpm or more for a period of two hours plus consumption at the maximum daily rate at the fire location is considered minimum in the ISO review.

Where there are 2 or more systems or services distributing water at the same location, credit is given on the basis of the joint protection provided by all systems and services available.

The supply works capacity is calculated for each representative Needed Fire Flow test location, considering a variety of water supply sources. These include public water supplies, emergency supplies (usually accessed from neighboring water systems), suction supplies (usually evidenced by dry hydrant installations near a river, lake or other body of water), and supplies developed by a fire department using large diameter hose or vehicles to shuttle water from a source of supply to a fire site. The result is expressed in gallons per minute (gpm).

The normal ability of the distribution system to deliver Needed Fire Flows at the selected building locations is reviewed. The results of a flow test at a representative test location will indicate the ability of the water mains (or fire department in the case of fire department supplies) to carry water to that location.

The hydrant distribution is reviewed within 1,000 feet of representative test locations measured as hose can be laid by apparatus.

For maximum credit, the Needed Fire Flows should be available at each location in the district. Needed Fire Flows of 2,500 gpm or less should be available for 2 hours; and Needed Fire Flows of 3,000 and 3,500 gpm should be obtainable for 3 hours.

Item 616 "Credit for Supply System (CSS)" = 28.56 points

Item 621 – Credit for Hydrants (3 points)

The second item reviewed is Item 621 "Credit for Hydrants (CH)". This item reviews the number of fire hydrants of each type compared with the total number of hydrants.

There are a total of 1938 hydrants in the graded area.

620. Hydrants, - Size, Type and Installation	Number of Hydrants
A. With a 6 -inch or larger branch and a pumper outlet with or without 2½ -inch outlets	1917
B. With a 6 -inch or larger branch and no pumper outlet but two or more 2½ -inch outlets, or with a small foot valve, or with a small barrel	21
C./D. With only a 2½ -inch outlet or with less than a 6 -inch branch	0
E./F. Flush Type, Cistern, or Suction Point	0

Item 621 "Credit for Hydrants (CH)" = 2.99 points

Item 630 – Credit for Inspection and Flow Testing (7 points)

The third item reviewed is Item 630 "Credit for Inspection and Flow Testing (CIT)". This item reviews the fire hydrant inspection frequency, and the completeness of the inspections. Inspection of hydrants should be in accordance with AWWA M-17, *Installation, Field Testing and Maintenance of Fire Hydrants.*

Frequency of Inspection (FI): Average interval between the 3 most recent inspections.

Frequency	Points
1 year	30
2 years	20
3 years	10
4 years	5
5 years or more	No Credit

Note: The points for inspection frequency are reduced by 10 points if the inspections are incomplete or do not include a flushing program. An additional reduction of 10 points are made if hydrants are not subjected to full system pressure during inspections. If the inspection of cisterns or suction points does not include actual drafting with a pumper, or back-flushing for dry hydrants, 20 points are deducted.

Total points for Inspections = 2.40 points

Frequency of Fire Flow Testing (FF): Average interval between the 3 most recent inspections.

Frequency	Points
5 years	40
6 years	30
7 years	20
8 years	10
9 years	5
10 years or more	No Credit

Total points for Fire Flow Testing = 2.40 points

Item 631 "Credit for Inspection and Fire Flow Testing (CIT)" = 4.80 points

Divergence = -1.82

The Divergence factor mathematically reduces the score based upon the relative difference between the fire department and water supply scores. The factor is introduced in the final equation.

Community Risk Reduction

	Earned Credit	Credit Available
1025. Credit for Fire Prevention and Code Enforcement (CPCE)	**1.82**	2.2
1033. Credit for Public Fire Safety Education (CFSE)	**1.62**	2.2
1044. Credit for Fire Investigation Programs (CIP)	**0.94**	1.1
Item 1050. Credit for Community Risk Reduction	**4.38**	**5.50**

Item 1025 – Credit for Fire Prevention Code Adoption and Enforcement (2.2 points)	Earned Credit	Credit Available
Fire Prevention Code Regulations (PCR) Evaluation of fire prevention code regulations in effect.	10.00	10
Fire Prevention Staffing (PS) Evaluation of staffing for fire prevention activities.	8.00	8
Fire Prevention Certification and Training (PCT) Evaluation of the certification and training of fire prevention code enforcement personnel.	1.50	6
Fire Prevention Programs (PCP) Evaluation of fire prevention programs.	13.60	16
Review of Fire Prevention Code and Enforcement (CPCE) subtotal:	33.10	40

Item 1033 – Credit for Public Fire Safety Education (2.2 points)	Earned Credit	Credit Available
Public Fire Safety Educators Qualifications and Training (FSQT) Evaluation of public fire safety education personnel training and qualification as specified by the authority having jurisdiction.	5.00	10
Public Fire Safety Education Programs (FSP) Evaluation of programs for public fire safety education.	24.50	30
Review of Public Safety Education Programs (CFSE) subtotal:	29.50	40

Item 1044 – Credit for Fire Investigation Programs (1.1 points)	Earned Credit	Credit Available
Fire Investigation Organization and Staffing (IOS) Evaluation of organization and staffing for fire investigations.	8.00	8
Fire Investigator Certification and Training (IQT) Evaluation of fire investigator certification and training.	3.00	6
Use of National Fire Incident Reporting System (IRS) Evaluation of the use of the National Fire Incident Reporting System (NFIRS) for the 3 years before the evaluation.	6.00	6
Review of Fire Investigation Programs (CIP) subtotal:	17.00	20

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Summary of PPC Review
for
Pine Bluff

FSRS Item	Earned Credit	Credit Available
Emergency Communications		
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422. Credit for Telecommunicators	4.00	4
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523. Credit for Reserve Pumpers	0.50	0.5
532. Credit for Pumper Capacity	3.00	3
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553. Credit for Reserve Ladder and Service Trucks	0.48	0.5
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Water Supply		
616. Credit for Supply System	28.56	30
621. Credit for Hydrants	2.99	3
631. Credit for Inspection and Flow Testing	4.80	7
640. Credit for Water Supply	36.35	40
Divergence	-1.82	--
1050. Community Risk Reduction	4.38	5.50
Total Credit	89.19	105.5

Final Community Classification = 02/2X

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HYDRANT FLOW DATA SUMMARY

City Pine Bluff

County Arkansas(Jefferson), State ARKANSAS (03) Witnessed by: Liberty Utilities Date: Dec 18, 2017

TEST NO.	TYPE DIST.*	TEST LOCATION	SERVICE	FLOW - GPM Q=(29.83(C(d²)p^0.5)) INDIVIDUAL HYDRANTS			TOTAL	PRESSURE PSI STATIC	RESID.	FLOW -AT 20 PSI NEEDED **	AVAIL.	REMARKS***	MODEL TYPE
1		Jefferson Pky & Industrial Dr	Liberty Utilities, Pine Bluff	0	0	0	0	0	0	7500	5144	(D)-(5322 gpm)	CNMP
10		Cherry St & 13th	Liberty Utilities, Pine Bluff	560	560	0	1120	70	65	4000	3900		CNMP
10A		Cherry St & 13th	Liberty Utilities, Pine Bluff	560	560	0	1120	70	65	750	3900		CNMP
11		Hwy	Liberty Utilities, Pine Bluff	2210	0	0	2210	75	50	4000	3400		CNMP
12		South Olive Street one blk W	Liberty Utilities, Pine Bluff	2020	0	0	2020	70	40	3500	2700		CNMP
12A		South Olive Street one blk W	Liberty Utilities, Pine Bluff	2020	0	0	2020	70	40	2500	2700		CNMP
13		Ridgeway & Mulberry	Liberty Utilities, Pine Bluff	0	0	0	0	0	0	4000	4784	(A)-(3000.0 gpm)	CNMP
13A		Ridgeway & Mulberry	Liberty Utilities, Pine Bluff	0	0	0	4784	0	0	750	4784		CNMP
14		Hwy 79 @ PJ Club bldg	Liberty Utilities, Pine Bluff	1750	0	0	1750	50	30	4000	2200	(A)-(3000.0 gpm)	CNMP
14A		Hwy 79 S of building	Liberty Utilities, Pine Bluff	0	0	0	4414	0	0	2250	4414	(A)-(1500.0 gpm)	CNMP
15		West 40th Street & Pine Cove	Liberty Utilities, Pine Bluff	1560	0	0	1560	70	62	4000	4200		CNMP
15A		42nd @ Hospital	Liberty Utilities, Pine Bluff	1560	0	0	1560	70	62	750	4200		CNMP
16		Pinnacle Lane & Hawthorne St	Liberty Utilities, Pine Bluff	0	0	0	0	0	0	4000	5047		CNMP
16A		Pinnacle & Hawthorn	Liberty Utilities, Pine Bluff	0	0	0	5047	0	0	750	5047		CNMP
17		2nd & Byrd	Liberty Utilities, Pine Bluff	1970	0	0	1970	58	42	3500	3100		CNMP
18		Harding Avenue & Belle Meade	Liberty Utilities, Pine Bluff	990	990	0	1980	68	52	3500	3600		CNMP

THE ABOVE LISTED NEEDED FIRE FLOWS ARE FOR PROPERTY INSURANCE PREMIUM CALCULATIONS ONLY AND ARE *NOT* INTENDED TO PREDICT THE MAXIMUM AMOUNT OF WATER REQUIRED FOR A LARGE SCALE FIRE CONDITION.

THE AVAILABLE FLOWS ONLY INDICATE THE CONDITIONS THAT EXISTED AT THE TIME AND AT THE LOCATION WHERE TESTS WERE WITNESSED.

*Comm = Commercial; Res = Residential.

**Needed is the rate of flow for a specific duration for a full credit condition. Needed Fire Flows greater than 3,500 gpm are not considered in determining the classification of the city when using the Fire Suppression Rating Schedule.

*** (A)-Limited by available hydrants to gpm shown. Available facilities limit flow to gpm shown plus consumption for the needed duration of (B)-2 hours, (C)-3 hours or (D)-4 hours.

INSURANCE SERVICES OFFICE, INC.

HYDRANT FLOW DATA SUMMARY

City Pine Bluff

County Arkansas(Jefferson), State ARKANSAS (03) Witnessed by: Liberty Utilities Date: Dec 18, 2017

TEST NO.	TYPE DIST.*	TEST LOCATION	SERVICE	FLOW - GPM INDIVIDUAL HYDRANTS			TOTAL	PRESSURE PSI STATIC	RESID.	FLOW -AT 20 PSI NEEDED **	AVAIL.	REMARKS***	MODEL TYPE
19		5th St & State	Liberty Utilities, Pine Bluff	1190	0	0	1190	70	64	3500	3700		CNMP
1A		Jefferson Pky & Industrial Dr	Liberty Utilities, Pine Bluff	0	0	0	0	0	0	3000	5144		CNMP
2		East 8th Street & Morris Ave	Liberty Utilities, Pine Bluff	1690	0	0	1690	70	58	6000	3700	(D)-(5322 gpm)	CNMP
20		28th & Myrtle	Liberty Utilities, Pine Bluff	1630	0	0	1630	70	62	3500	4400		CNMP
21		Country Club Lane & Mulberry	Liberty Utilities, Pine Bluff	1630	0	0	1630	70	60	3500	3900		CNMP
22		South Bay Road & Tulip	Liberty Utilities, Pine Bluff	1860	0	0	1860	68	54	3500	3600		CNMP
23		Barraque @ bldg	Liberty Utilities, Pine Bluff	2120	0	0	2120	68	50	3000	3600		CNMP
24		3rd & Cherry	Liberty Utilities, Pine Bluff	1430	0	0	1430	70	60	3000	3400		CNMP
25		11th & Indiana	Liberty Utilities, Pine Bluff	2020	0	0	2020	68	28	3000	2200		CNMP
26		Main Street & 37th St	Liberty Utilities, Pine Bluff	0	0	0	0	0	0	3000	6097		CNMP
27		Dollerway Road & Haley	Liberty Utilities, Pine Bluff	0	0	0	1150	70	66	2250	4500		CNMP
2A		8th & Tennessee	Liberty Utilities, Pine Bluff	1690	0	0	1690	70	58	2250	3700		CNMP
3		Cypress & 17th	Liberty Utilities, Pine Bluff	0	0	0	0	0	0	5500	3427	(D)-(5322 gpm)	CNMP
3A		Cypress & 17th	Liberty Utilities, Pine Bluff	0	0	0	0	0	0	750	3427		CNMP
4		S Blake @ T&N	Liberty Utilities, Pine Bluff	0	0	0	0	0	0	5000	4560		CNMP
4A		S Blake @ T&N	Liberty Utilities, Pine Bluff	0	0	0	0	0	0	2500	4560		CNMP

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5		2nd & Willow	Liberty Utilities, Pine Bluff	0	0	0	0	0	0	5000	3527	(A)-(4500.0 gpm)	CNMP
6		Hutchinson East of building	Liberty Utilities, Pine Bluff	1750	0	0	1750	70	55	2000	3400		CNMP
7		Emmett Sanders	Liberty Utilities, Pine Bluff	0	0	0	3500	0	0	3000	3500		CNMP
8		N Midland @ Catalpa	Liberty Utilities, Pine Bluff	3030	0	0	3030	72	60	4500	6700		CNMP
9		University Of Ark @ N Cedar	Liberty Utilities, Pine Bluff	2120	0	0	2120	75	50	4500	3200		CNMP
9A		University of Arkansas PB & N Cedar	Liberty Utilities, Pine Bluff	2120	0	0	2120	75	50	3500	3200		CNMP

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	Liberty Utilities Pine Bluff			
	SYSTEM MAINS			
Footage as of 12/31/2021				
Diameter	Cast Iron	AC	Plastic	Total Feet
Inches	Duct/Galv			
1	15805	0	4543	20,348
1.5	469	0	0	469
2	282,278	0	14,439	296,717
3	260	62,205	1829	64,294
4	23,808	2003	9,947	35,118
6	287,389	402,971	120,255	810,615
8	75,152	158,337	210,092	443,581
10	41,063	14,833	3,085	58,981
12	71,375	112,308	146,263	329,946
14	9,862	0	600	10,462
16	11,013	0	0	11,013
18	529	0	0	529
Totals	819,003	752,657	511,053	2,082,073
Miles of Main	155	143	97	394