



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
BUREAU OF CONSTRUCTION CODES
IRVIN J. POKE
DIRECTOR

STEVE ARWOOD
DIRECTOR

CONSTRUCTION CODE COMMISSION

Conference Room 3, First Floor
2501 Woodlake Circle
Okemos, Michigan 48864

AGENDA

January 8, 2014
9:30 a.m.

1. Call to Order and Determination of Quorum
2. Approval of Agenda (1-2)
3. Approval of Minutes – October 2, 2013 (3-7)
4. Director's Report I. Poke
5. Applications to Administer and Enforce M. Somers
Plainfield Township, Kent County – Document #14-01 (8-9)
6. Report of Assistance Requests – Document #14-12 (10-11) K. Lambert
7. Texas Township Performance Evaluation Report – Document #14-02 (12-15) M. Somers
8. City of East Lansing Performance Evaluation Summary Report M. Somers
Document # 14-03 (16-17)
9. Applications for Program Approval – Document #14-07 (18-24) L. Lehman
10. Applications for Instructor Approval – Document #14-08 (25-27) L. Lehman
11. 1986, Act 54 Registration Applicants – Document #14-09 a-d, f (32-33) L. Lehman
12. Recommended Product Approvals
 - a.) See Water Inc. Liquid Smart Pump Systems (Plumbing) J. Madziar
Document #14-1072 (34-45)
 - b.) Penner Manufacturing Inc., Cascade Contour Bathing System
Document # 14-11 (46-47)

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13. Certificate of Acceptability

T. Cordill

- a.) Restroom Facilities LTD. – CA #553
Document #14-04 (48)
- b.) Speed Space – CA #544
Document #14-05 (49)
- c.) Kings Custom Builders Inc – CA #546
Document #14-06 (50)

14. Public Comment

15. Unfinished Business

16. New Business

17. Adjournment

The meeting site and parking is accessible. Individuals attending the meeting are requested to refrain from using heavily scented personal care products, in order to enhance accessibility for everyone. People with disabilities requiring additional services (such as materials in alternative format) in order to participate in the meeting should call Hillary Cushman at (517) 241-9302 at least 10 business days before the event.



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MINUTES
October 2, 2013
9:30 a.m.

MEMBERS PRESENT

Mr. William Benoit, Jr. (Chair)
Mr. Michael Boss
Mr. Roger Donaldson
Mr. William Duffield
Mr. Thomas Erdman
Mr. Kenneth D. Misiewicz
Mr. Sean O'Neil
Mr. Roger Papineau
Mr. Matthew Reno
Mr. Richard Miller

MEMBERS ABSENT

Mr. Thomas Baldwin
Mr. Frederick Butters
Mr. James Cash
Mr. David Jones
Mr. Clifton (Jack) Lewis
Mr. Nelson McMath
Ms. Beth Yorke

DEPARTMENT PERSONNEL PRESENT

Mr. Keith Lambert, Deputy Director, BCC
Ms. Hillary Cushman, Assistant to Mr. Poke
Ms. Deb Young, Director, Office of Administrative Services
Mr. Michael Somers, Analyst, Office of Administrative Services
Ms. Jessica Lightner, Secretary, Office of Administrative Services
Mr. Charles Curtis, Assistant Chief, Building Division
Mr. Dan O'Donnell, Chief, Electrical Division
Mr. Todd Cordill, Chief, Plan Review Division
Mr. Andy Neuman, Assistant Chief, Plumbing Division

OTHERS IN ATTENDANCE

Mr. Tom Kramer, City of Coldwater
Mr. Keith Baker, City of Coldwater
Mr. Cindy Maher, MPMCA
Mr. Jeff Budd, City of Coldwater
Mr. Glenn Lindsey, Cornerstone Inspections

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1. **CALL TO ORDER AND DETERMINATION OF QUORUM**

Chairperson Benoit called the meeting to order at approximately 9:30 a.m. A quorum was determined present at that time.

2. **APPROVAL OF AGENDA**

Commissioner Donaldson moved to approve the agenda. Commissioner O'Neil seconded the motion. **MOTION CARRIED.**

3. **APPROVAL OF MINUTES**

Commissioner Reno moved to approve the minutes of the July 10, 2013 meeting. Commissioner Duffield seconded the motion. **MOTION CARRIED.**

4. **DIRECTOR'S REPORT**

Mr. Lambert announced the retirement of Bill Vallance, Boiler chief and George Herrity, Plan Review assistant chief.

Mr. Lambert reported that the bureau has hired two new inspectors for the Hardest Hit demolition program in Detroit.

Mr. Lambert reported that Director Poke, Joe Madziar, Larry Lehman, and Kevin Kalakay were all in attendance at the International Code Council hearings in Atlantic City.

Mr. Lambert advised the Commission of a joint meeting between the bureau and the Library of Michigan. The meeting was to discuss the codes and standards required for enforcement of construction codes. The library stated they do not have all the reference standards and the cost of such a collection exceeds half of the library's total fiscal funds.

Mr. Lambert reported that the plumbing licensing rules are still under review at JCAR. The building and rehabilitation codes will have a public hearing on October 24. The new plumbing codes will be in effect January 17, 2014.

Mr. Lambert provided a legislative update on several bills currently in various stages of the process.

5. **APPLICATIONS TO ADMINISTER AND ENFORCE**

City of Coldwater, Branch County - Document #13-43

Mr. Somers presented an Application to Administer and Enforce for the City of Coldwater, Branch County. It is the recommendation of staff to deny this Application to Administer and Enforce.

Mr. Tom Kramer, Mr. Keith Baker and Mr. Jeff Budd entered into discussion with the commission to amend staff's recommendation and approve the application.

After discussion, Commissioner Papineau moved to approve the City of Coldwater's Application to Administer and Enforce with the condition that the city provide certification that they will have consistent access to all standards referenced by the codes as requested. Commissioner O'Neil seconded the motion. **MOTION CARRIED.**

6. **RESCINDING ORDINANCES**

Document #13-52

- a.) Village of Calumet, Houghton County
- b.) Bear Creek Township, Emmet County
- c.) City of Croswell, Sanilac County

Mr. Somers presented Rescinding Ordinances to the commission for informational purposes.

7. **REPORT OF ASSISTANCE REQUESTS**

Document #13-51

Mr. Lambert provided the Report of Assistance Requests to the commission for informational purposes.

8. **APPLICATIONS FOR PROGRAM APPROVAL**

Document #13-45

Mr. Curtis presented a list of continuing education program applications for approval. The programs were reviewed and found to be in compliance with the registration rules and it is the recommendation of staff that the programs be approved.

Commissioner Boss moved to approve the applications as submitted. Commissioner Erdman seconded the motion. **MOTION CARRIED.**

9. **APPLICATIONS FOR INSTRUCTOR APPROVAL**

Document #13-44

Mr. Curtis presented a list of Instructors of Continuing Education Programs for approval. The applications were reviewed and found to be in compliance with the registration rules and it is the recommendation of staff that the applications be approved.

Commissioner Reno moved to approve the instructors. Commissioner Donaldson seconded the motion. **MOTION CARRIED.**

10. **1986, ACT 54 REGISTRATION APPLICANTS**

Document #13-46 a-f

Mr. Curtis presented a list of applications for registration as building officials, building inspectors, plan reviewers, electrical inspectors, and plumbing inspectors. It is the recommendation of staff that the individuals listed be approved.

Commissioner O'Neil moved to approve the applications as submitted. Commissioner Erdman seconded the motion. **MOTION CARRIED.**

11. **RECOMMENDED PRODUCT APPROVALS**

Wardflex II (Mechanical) – Document #13-42

Mr. Paradine presented the Wardflex II device for installation and use in the State of Michigan. It is the recommendation of staff and the State Board of Mechanical Rules that this product be approved.

Commissioner Misiewicz moved to approve the applications as submitted. Commissioner Reno seconded the motion. **MOTION CARRIED.**

12. **CERTIFICATE OF ACCEPTABILITY**

- a.) **Blu Homes Inc. – CA #549 Document #13-50**
- b.) **Valtronics Solutions, Inc. – CA #550 Document #13-49**
- c.) **AES Precast Company, Inc. – CA #547 Document #13-48**
- d.) **Advanced Mobility and Shelter Technologies – CA #542 Document #13-47**

Mr. Cordill presented Certificates of Acceptability for approval.

Commissioner Boss moved to approve the Certificate of Acceptability. Commissioner Erdman seconded the motion. **MOTION CARRIED.**

13. **PUBLIC COMMENT**

NONE

14. **UNFINISHED BUSINESS**

NONE

15. **NEW BUSINESS**

NONE

16. **APPROVAL OF 2014 MEETING DATES** – January 8, April 2, July 9, October 1

Commissioner Donaldson moved to approve the Certificate of Acceptability.
Commissioner O’Neil seconded the motion. **MOTION CARRIED.**

17. **ADJOURNMENT**

Commissioner Reno moved to adjourn the meeting at approximately 10:29 a.m.
Commissioner Donaldson seconded the motion. **MOTION CARRIED.**

APPROVED:

Chairman, Construction Code Commission

Date



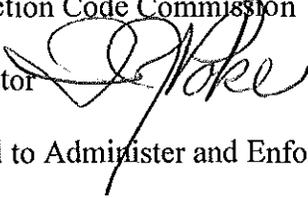
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STEVE ARWOOD
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DOCUMENT #14-01

December 5, 2013

TO: Members of the Construction Code Commission
FROM: Irvin J. Poke, AIA, Director 
SUBJECT: Application for Approval to Administer and Enforce a Code

The following unit of government has submitted an application for approval to administer and enforce the Michigan codes, along with an ordinance:

1. **P-14-01** Plainfield Township/**Kent County**
Michigan Plumbing Code
Inspector/Plan Reviewer: Daniel L. Heyer (Registration No. 002206)
Currently state enforced

FINDINGS

1. The Township did not provide verification that a current and consistent method of access to the complete library of referenced standards as identified in Chapter 13 of the Michigan Plumbing Code is available for use by its inspectors, plan reviewers and the public.
2. The Township did not provide a schedule of fees for plumbing code enforcement services. There were no cost analysis provided regarding the method and analysis utilized to establish the fees charged for plumbing code enforcement services provided to the public.
3. The Township's application for a plumbing permit form did not have any information identifying the enforcing agency or any itemized fees.
4. There were no calculations or formulas provided to establish a fee charged for an hour of plan review. Additionally, the Township did not provide a copy of a plan review report form or plan review procedures for review.

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5. Although the Township estimates the cost of providing a plumbing inspection at \$45.00, there were no calculations or formulas provided to establish the fee charged for an hour of plumbing inspection services.
6. Although the Township indicates that an inter-local inspection agreement with Cascade Township has been established for joint enforcement of the code, there was no information provided identifying the means and method of inspector compensation.
7. Item No. 5 of the Inspection Services Agreement states: "Cascade Township will be responsible for all inspection functions under this agreement *except* code enforcement citations, stop orders and dispute resolutions which will be exclusively within the jurisdiction of the Plainfield Township Supervisor or the supervisor's designated representative". Inasmuch as the agreement language places code enforcement responsibilities to an elected official or an unspecified representative, it is unclear how these matters will be addressed.

RECOMMENDATION: Due to findings listed above regarding the Township's Application to Administer and Enforce, staff recommends that the unit of government listed not be approved to administer and enforce the code.

IJP/ms



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DOCUMENT #14-12

December 19, 2013

TO: Members of the Construction Code Commission
FROM: Keith Lambert, Deputy Director
SUBJECT: Report of Assistance Requests

The bureau has **granted** assistance as follows:

- a.) Wayne State University, Wayne County
Project: Freshii and Dunkin Donuts – Towers Residence Hall
Services: Building, electrical, mechanical and plumbing plan review, permit and inspection
Effective: 10/1/2013 until completion of project
- b.) Wayne State University, Wayne County
Project: Shaver Music Building – 5451 Cass Avenue, Detroit, MI 48202
Services: Building, electrical, mechanical and plumbing plan review, permit and inspection
Effective: 10/16/2013 until completion of project
- c.) Wayne State University, Wayne County
Project: Matthaei Basketball Office – 5101 John C. Lodge Service Drive, Detroit, MI 48202
Services: Building, electrical, mechanical and plumbing plan review, permit and inspection
Effective: 10/16/2013 until completion of project
- d.) Grand Valley State University, Allendale Campus – Ottawa County
Project: Science Lab, Classroom, and Office Building
Services: Electrical plan review, permit and inspection
Effective: 11/4/2013 until completion of project

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- e.) Central Michigan University, East Campus Project – Saginaw County
Project: Science Lab, Classroom, and Office Building
Services: Electrical plan review, permit and inspection
Effective: 11/4/2013 until completion of project

- f.) Village of Decatur – Van Buren County
Services: Mechanical plan review, permit and inspection
Effective: 11/27/2013 through 2/27/2013

- g.) Hagar Township – Berrien County
Project: Coloma Frozen Foods – 4145 Coloma Road, Coloma, MI 49038
Services: Building, Electrical, Plumbing and Mechanical plan review
Effective: 12/27/13 until completion of project



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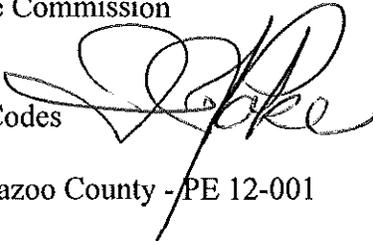
December 5, 2013

DOCUMENT NO. 14-02

TO: Members of the Construction Code Commission

FROM: Irvin J. Poke AIA
Director, Bureau of Construction Codes

SUBJECT: Charter Township of Texas/Kalamazoo County -PE 12-001
Fire Station Addition



Finding No. 1

In accordance with the Order of the Construction Code Commission dated October 3, 2012, the Township was required to bring its Fire Station Addition into compliance with MBC Sections 903.2.7 and 717.4.3 and MMC Sections 403.3 and 504.5. It was further ordered that the R-2 classified portions of the Fire Station Addition would not be occupied until the identified code compliance issues were resolved and inspections were performed to verify compliance with the code had been achieved.

On October 9, 2013, Senior State Building Inspector John Tisdale and Senior State Mechanical Inspector Norwood Bates observed Texas Township Building Official Bill Henderson and Township Mechanical Inspector Scott Paddock as they conducted final building and mechanical inspections. No violations of the code were identified during the inspections allowing for the issuance of a Certificate of Occupancy for the Fire Station Addition.

Finding No. 2

In accordance with the Commission's order, the Township is required to submit a written report every (90) days to the bureau that identifies any projects submitted that are classified as mixed-use occupancies. To date, the Township has provided the reports on a timely basis. The reports shall be submitted to the bureau every (90) days until October, 2014.

Conclusion:

Texas Township has complied with the requirements contained within Finding No. 1 of the Commission's order. The inspector's findings and a copy of the Certificate of Occupancy for the Fire Station Addition are attached. The Township's level of compliance with Finding No. 2 is pending.

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Performance Evaluation Summary Report

October 21, 2013

To: Mike Somers, Department Analyst

From: John M. Tisdale, Senior Building Inspector

Re: Texas Township

On October 9, 2013, I observed the Texas Township building inspector as he conducted the final building inspection and issued the certificate of occupancy for the Texas Township fire department addition. No other violations or concerns were found during that inspection.

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Performance Evaluation Summary Report

October 8, 2013

To: Mike Somers

From: Norwood Bates

Re: Texas Township Final Inspection

Mike,

The Texas Township mechanical inspection for the fire sprinkler system installed at the township fire station has been completed. I observed Mr. Scott Paddocks inspection and final approval during our last visit to the sit on October 7, 2013.

All inspections, testing and documentation were completed and compliant with the codes and referenced standards required for the project.

With the final approval issued by the Texas Township Building Department, this matter shall be considered closed.

**Thank you
Norwood Bates
Senior Mechanical Inspector**

**CERTIFICATE OF OCCUPANCY
CHARTER TOWNSHIP OF TEXAS
7110 W. 'Q' AVE
KALAMAZOO, MI 49009**

The building or described portion of the building has been inspected for compliance with the requirements of this code for the group and division of occupancy and the use for which the proposed occupancy is classified. Issuance of a certificate of occupancy shall not be construed as an approval of a violation of the provisions of this code or other ordinances of the jurisdiction. UNDER PENALTY OF LAW - DO NOT OCCUPY THIS BUILDING IN ANY MANNER UNTIL AFTER THIS CERTIFICATE IS SIGNED BY AN OFFICIAL OF TEXAS TOWNSHIP BUILDING DEPARTMENT per Ordinance No. 10., Section 7.7. Texas Township Ordinance No. 10., Section 5.4 provides a \$100.00 fine or 90 days in jail or both upon conviction of violation of this ordinance.

TYPE OF CONSTRUCTION: *II-B*
MAXIMUM OCCUPANCY LOAD: *10*
OCCUPANCY GROUP, *B, R-2, SI*

Building Code in Effect: 2009 MICHIGAN BUILDING CODE

Parcel #3909- 09-15-476-030
Contractors Name: JOE GLAS
Property Owners Name: TEXAS CHARTER TOWNSHIP
Owners Address: 7110 W Q AVE
Type of Work: FIRE DEPARTMENT
Permit # P11-0016

NON-TRANSFERABLE

Bill Henderson

10/09/2013

Building Official



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December 5, 2013

DOCUMENT NO. 14-03

TO: Members of the Construction Code Commission

FROM: Irvin J. Poke, AIA
Director, Bureau of Construction Codes

SUBJECT: City of East Lansing
Summary Report PE 13-001

The performance evaluation for the City of East Lansing was conducted on February 6, 2013. As required by the Order of the State Construction Code Commission dated April 4, 2013, a re-evaluation of the City's code enforcing agency was conducted on November 26, 2013.

The following summary report provides the recommendations from the performance evaluation report submitted to the Commission, the City's responses to the recommendations, and the Bureau's analysis of the Township's responses.

Recommendation No. 1

The City shall revise its Certificate of Occupancy form to include information relating to the design occupancy load and whether an automatic sprinkler system is required or provided for compliance with MBC Section 111.2 and MRC Section R110.3. The City shall submit its revised Certificate of Use and Occupancy form to the bureau within 30 days of approval of the report.

City Response

On April 11, 2013, the City submitted its revised form that upon review by the bureau, complies with the requirements of the code. During the re-evaluation, it was confirmed that the City is utilizing the revised form. Therefore, it has been determined that the City has complied with Recommendation No. 1.

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Recommendation No. 2

The City shall develop, maintain and consistently utilize a written set of procedures including proper forms and notification formats regarding notices to show cause and orders to stop construction that comply with the code and the Act. The City shall provide the bureau with a copy of its written set of procedures including the revised notice to show cause and stop work order forms within 30 days of approval of the report.

City Response

On April 11, 2013, the City submitted revised forms and a written set of procedures for notices of code violation, notice to show cause and orders to stop construction. During the re-evaluation, it was confirmed that the City is utilizing the revised procedures and proper forms. Therefore, it has been confirmed that the City has complied with Recommendation No. 2.

Recommendation No. 3

The City shall develop, maintain and consistently utilize a written set of code administration and enforcement procedures. The City shall develop a written outline of the chapters and sections to be included within the operation and procedures manual and shall submit the outline to the bureau within 60 days of approval of the report. Once the outline is approved, the City shall submit a completed written set of code administration and enforcement procedures to the bureau within 90 days of approval of the procedures outline.

City Response

On April 11, 2013, the City submitted a written outline of its operation and procedures manual. On August 8, 2013, the City submitted its completed operation and procedures manual to the bureau. During the re-evaluation, it was confirmed that the City is utilizing its operation and procedures manual. Therefore, it is confirmed that the City has complied with Recommendation No. 3.

Conclusion:

Upon review of all of the materials, forms and information submitted by the City, it has been determined that compliance has been achieved with the recommendations contained within the Performance Evaluation report. Therefore, it is the recommendation of staff to close the performance evaluation file.

IJP/ms



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DOCUMENT #14-07

December 11, 2013

TO: Members of the Construction Code Commission

FROM: Larry Lehman, Chief
Building Division

A handwritten signature in black ink that reads "Larry Lehman".

SUBJECT: Continuing Education Program Applicants

The programs listed on the attached pages are those for which approval has been requested by providers or sponsors of continuing education programs required of building officials, inspectors and plan reviewers to renew their registrations. Document #14-07 is a list of programs that have been submitted for approval for the cycle beginning September 17, 2012 through September 16, 2015.

Each provider has documented appropriate content in relation to one or more of the continuing education categories and registrant classifications set forth in the administrative rules promulgated pursuant to 1986 PA 54.

It is the recommendation of Bureau staff that the programs submitted pursuant to the provisions of Act 54 be approved by the Commission.

LL/kja

Attachments

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* Registrants holding one or more Inspector classification are required to attend Technical and Specialty training to be eligible for reregistration at the end of the present code cycle. If that is successfully accomplished, there are no additional Technical or Specialty credits necessary to also become eligible for reregistration as either a Building Official and/or Plan Reviewer. A person who is registered **only** as a Building Official and/or Plan Reviewer **without any Inspector classification** will receive the listed Technical and/or Specialty credit towards reregistration qualification for attending this program.

Specialty approvals are granted for one of the four Inspector (trade) classifications. Inspectors receive credits only for attending programs associated with their trade; a Mechanical Inspector does not satisfy those requirements by attending a Building, Electrical or Plumbing program. Someone registered **only** as a Building Official and/or Plan Reviewer **without any Inspector classification** will receive credit for all Specialty programs attended, regardless of the trade(s).

Technical approvals are granted for programs addressing a specific code. Inspectors receive Technical credit only for programs addressing the code they enforce. Someone registered **only** as a Building Official and/or Plan Reviewer without any Inspector classification will receive credit for all Technical programs in **their cycle** which they attended, regardless of the trade.

** Programs approved for Plan Review credits satisfy unique requirements placed on Plan Reviewer registrants. Even though the title of an individual program may refer to a specific trade or code, all Plan Review program credits apply to any Plan Reviewer.

**** Credit for documented participation in/attendance at formal code change hearings conducted and reported by a nationally recognized code-promulgating organization will be recognized when the subject is a code enforced by the registrant. Credit is granted in one-hour increments and is divided between Technical and Specialty. The first hour is Technical, the second Specialty, the third Technical, the fourth Specialty, etc. Seven hours would be credited as four Technical and three Specialty, for example.

ISC =Independent Study Course

I = Internet Course

CR = Classroom

Department of Licensing and Regulatory Affairs-Bureau of Construction Codes-2012/2015 Inspector Continuing Education Programs

Program Number	Credit Hours						Contact	Organization	Phone	Title
	Admin	Comm	Spec	Tech	PR	Classification				
17613				4		MI*	Jonathon Paradine	Bureau of Construction Codes	(517) 241-9325	2012 Mechanical Code Update
17614				4		MI*	Jonathon Paradine	Bureau of Construction Codes	(517) 241-9325	2012 International Fuel Gas Code Update
17615				2		BI*, MI*	Tim Mrozowski	MSU - School of Planning Design & Construction	(517) 353-0781	Michigan Residential Energy Code Training and Implementation (based on 2009 MUEC)
17616			1			BI*, MI*	Tim Mrozowski	MSU - School of Planning Design & Construction	(517) 353-0781	Additions, Alterations, Renovations, and Repairs: Michigan Residential Energy Code (based on 2009 MUEC)
17617				2		BI*, MI*	Tim Mrozowski	MSU - School of Planning Design & Construction	(517) 353-0781	Michigan Commercial Energy Code Training and Implementation (based on ASHRAE Standard 90 1-2007)
17618				4		BI*, MI*	Tim Mrozowski	MSU - School of Planning Design & Construction	(517) 353-0781	Michigan Commercial Energy Code Training and Implementation (based on ASHRAE Standard 90 1-2007)
17619				4		PI*	Wayne Robinson	Buildings & Safety Engineering Dept	(313) 224-3182	2009 Michigan Plumbing Code - Chapter 4
17620				4		PI*	Wayne Robinson	Buildings & Safety Engineering Dept	(313) 224-3182	2009 Michigan Plumbing Code - Chapter 6
17621				4		PI*	Wayne Robinson	Buildings & Safety Engineering Dept	(313) 224-3182	2009 Michigan Plumbing Code - Chapters 7 & 8
17622				4		PI*	Wayne Robinson	Buildings & Safety Engineering Dept	(313) 224-3182	2009 Michigan Plumbing Code - Chapter 9
17623				4		PI*	Wayne Robinson	Buildings & Safety Engineering Dept	(313) 224-3182	2009 Michigan Plumbing Code - Chapter 10
17624				4		PI*	Wayne Robinson	Buildings & Safety Engineering Dept	(313) 224-3182	2009 Michigan Plumbing Code - Chapter 11
17625			4			PI*	Wayne Robinson	Buildings & Safety Engineering Dept	(313) 224-3182	Backflow Prevention In Plumbing Systems

Department of Licensing and Regulatory Affairs-Bureau of Construction Codes-2012/2015 Inspector Continuing Education Programs

17626			2			PI*	Wayne Robinson	Buildings & Safety Engineering Dept	(313) 224-3182	Gray Water Recycling Systems
17627			1	1		EI*	Paul Waug Knapp	RECI-WES	(248) 477-6739	2011 NEC Electrical Code Changes - Article 90-280
17628			1	1		EI*	Paul Waug Knapp	RECI-WES	(248) 477-6739	2011 NEC Electrical Code Changes - Article 300-399
17629			1	1		EI*	Paul Waug Knapp	RECI-WES	(248) 477-6739	2011 NEC Electrical Code Changes - Article 400-480
17630				1	1	EI*, PR**	Paul Waug Knapp	RECI-WES	(248) 477-6739	2011 NEC Electrical Code Changes - Article 500-590
17631			1		1	EI*, PR**	Paul Waug Knapp	RECI-WES	(248) 477-6739	2011 NEC Electrical Code Changes - Article 600-695
17632	1			1		EI*	Paul Waug Knapp	RECI-WES	(248) 477-6739	2011 NEC Electrical Code Changes - Article 700-840 Part 8 Rules
17633			1	1	1	ALL, PR**	Laura Garcia	International Code Council	(888) 422-7233	Firestopping Responsibilities for Buildings and Fire Departments
17634			3			BI*, MI*, PI*	Laura Garcia	International Code Council	(888) 422-7233	Tour the Rebuilding of the Jersey Shore after Sandy
17635			3			BI*, PI*	Laura Garcia	International Code Council	(888) 422-7233	Atlantic County Utilities Authority Environmental Tour
17636			3			BI*, MI*, PI*	Laura Garcia	International Code Council	(888) 422-7233	Tour Homes being Elevated after Super Storm Sandy
17637			2	1		BI*	Kenneth LaBelle		(810) 908-8055	Post & Beam Building Constructions and Common mistakes
17638	3					ALL	Russell Thornburg		(507) 413-2027	Chapter 1 "Michigan Building Code Administration"
17639					3	PR**	Russell Thornburg		(507) 413-2027	2009 Michigan Residential Plan Review
17640			2			ALL	Brian Lieburn	The Dow Chemical Corp	(614) 850-5377	Spray Foam Insulation and the Building Code
17641	1		2	10	2	EI*	Dan O'Donnell	BCC/Electrical Division	(517) 241-9320	2011 MEC/NEC Code Update Review

Department of Licensing and Regulatory Affairs-Bureau of Construction Codes-2012/2015 Inspector Continuing Education Programs

17642			4	4		ALL	Robert Schutz	Robert J. Schutz, PE., PS, CBO	(614) 395-9689	2009 Michigan Residential Code - Performing Residential Inspections" and 2009 MRC Performing Residential Inspections - Mechanical, Fuel Gas, Plumbing and Electrical Provisions
17643	1		1	1		ALL (Admin Only)	Frank Bayer	Michicode LLC	(586) 219-9942	Residential Builders Continuing Competency 2014
17644			1	1		EI*	David Vallier	Bussman	(586) 201-1348	Protective Devices
17645			4			ALL	Tracey Alfonsi	Construction Asc. Of MI	(248) 972-1000	Construction Safety: The Focus Four
17646			3			MI*	Joseph A. Wortman	Detroit Radiant Products	(586) 756-0950	Effective Infrared Heating Concepts
17647			3			BI*	Maribeth S. Rizzuto	Steel Framing Alliance	(412) 922-2772	Cold-Formed Steel Construction
17648			3			PI*	Laura Marshall	AcornVac	(909) 902-6534	Introduction to Vacuum Plumbing and Drainage Systems for Buildings
17649		1		1	2	ALL (Comm Only), EI*, PR**	George Little	IAEI-Michigan Chapter	(248) 933-1139	2013 Annual Meeting IAEI Michigan Chapter, Day 1 AM
17650			2	1	1	EI*, PR**	George Little	IAEI-Michigan Chapter	(248) 933-1139	2013 Annual Meeting IAEI Michigan Chapter, Day 1 PM
17651			1	2		EI*	George Little	IAEI-Michigan Chapter	(248) 933-1139	2013 Annual Meeting IAEI Michigan Chapter, Day 2 AM
17652				3		EI*	Jon Althouse	Michigan State University	(517) 353-4896	Electrical Grounding (CR)
17653	4	1	3	8	2	PI*	Ira (Jim) Rowell		(517) 861-6372	Provisional Introduction to Plumbing Codes and Procedures
17654	4	1	3	8	2	PI*	Ira (Jim) Rowell		(517) 861-6372	Introduction to Plumbing Codes and Procedures
17655				6		ALL	Russell Thornburg		(507) 413-2027	"Moisture Intrusion" - Text: Michigan Residential Code
17656			2			PI*	Dann Holmes	NSF International	(734) 769-8010	Federal Reduction of Lead in Drinking Water Act

Department of Licensing and Regulatory Affairs-Bureau of Construction Codes-2012/2015 Inspector Continuing Education Programs

17657			1	3		PI*	Joseph T. Madziar	BCC/Plumbing Division	(517) 241-9330	2012 Michigan Plumbing Code Update Course
17658				1		BI*	Larry Lehman	BCC/Building Division	(517) 241-9317	2009 Builders Michigan Residential Code Update
17659				1		BI*	Larry Lehman	BCC/Building Division	(517) 241-9317	2009 Michigan Uniform Energy Code Update (Residential)
17660	4	1	3	8	2	MI*	Ira (Jim) Rowell		(517) 861-6372	Provisional Introduction to Mechanical Code and Procedures
17661	1		1	1		ALL (Admin Only)	Wayne R. Jewell		(810) 623-9234	What's Approved
17662	4	1	3	8	2	MI*	Ira (Jim) Rowell		(517) 861-6372	Introduction to Mechanical Code and Procedures
17663				3		PI*	James R. Russell	Tri-County Plumbing Inspectors Assoc	(586) 806-0030	Chapter 6, Water Supply and Distribution
17664				24		EI*	Amy Bonilla	JADE Learning	(800) 443-5233	24 Hour Technical Package for Electrical Inspectors
17665			1	1		BI*	Robert Clark	APA - The Engineered Wood Asc.	(734) 823-5412	Engineered Wood Products - I - Joists/SCL/Glulam
17666			1	1		BI*	Robert Clark	APA - The Engineered Wood Asc.	(734) 823-5412	Wood Structural Panels - Floors/Walls/Roofs
17667			1	1		BI*, EI*	Darrel P. Higgs	DPH Consulting LLC	(734) 693-6079	Building Integrated Photovoltaic Systems (VIPV) "Innovative Solutions for Residential PV"
17668		1				ALL (Comm Only)	Larry Lehman	BCC/Building Division	(517) 241-9317	2014 Bureau of Construction Codes Panel Discussion
17669				2		ALL	Larry Lehman	BCC/Building Division	(517) 241-9317	Manufactured Housing Inspections Update
17670					4	PR**	Ira (Jim) Rowell		(517) 861-6372	Perimeter Increase Calculations
17671			1			MI*	Norwood Bates	BCC/Mechanical Division	(517) 241-9325	ERV & ERU Technology and Operation
17672			2			EI*	Dan Radecki		(616) 395-0196	Health Care Facilities
17673			1	1		EI*	Dan Radecki		(616) 395-0196	Equipment for General Use
17674				1		EI*	Dan Radecki		(616) 395-0196	Michigan Electrical Code Article 422

Department of Licensing and Regulatory Affairs-Bureau of Construction Codes-2012/2015 Inspector Continuing Education Programs

17675			1	1	EI*, PR**	Dan Radecki		(616) 395-0196	Commercial Garages and Motor Dispensing Facilities	
17676			1	2	EI*	Dan Radecki		(616) 395-0196	Michigan Electrical Code Articles 320-262	
17677			1	1	EI*, PR**	Dan Radecki		(616) 395-0196	MEC Article 240	
17678		1			ALL (Comm Only)	Dan Radecki		(616) 395-0196	Communication Skills	
17679	2				ALL (Admin Only)	Dan Radecki		(616) 395-0196	Electrical Licenses and Permits	
17680	4	1	3	8	2	BI*	John M. Tisdale	BCC/Building Division	(517) 241-9317	Building Inspectors Training
17681	4	1	3	8	2	EI*	Dan O'Donnell	BCC/Electrical Division	(517) 241-9320	Electrical Inspector Training Course
17682	4	1	3	8	2	MI*	Jonathon Paradine	BCC/Mechanical Division	(517) 241-9325	Mechanical Inspectors Training
17683	4	1	3	8	2	PI*	Joe Madziar	BCC/Plumbing Division	(517) 241-9330	Plumbing Inspector Training
17684	1					ALL (Admin Only)	Douglas Kutzura	LARA/Fire Services	(586) 289-0815	Michigan Underground Storage Tank Rules (CR)
17685	1		2		1	ALL (Admin Only), EI*, PR**	Thomas W. Bowes	Detroit Electrical JATC	(586) 751-6600	Michigan Uniform Energy Code Requirements for Commercial Lighting Installations
17686			4			PI*	Danny T. Hutchins PH.D	DiHydro Services Inc	(586) 978-0425	Corrosion Failure of Copper Piping Systems (CR)
17687				2		PI*	Danny T. Hutchins PH.D	DiHydro Services Inc	(586) 978-0425	Time-Saving Repair and Non-Destructive Testing Equipment Technology
17688			4			PI*	Danny T. Hutchins PH.D	DiHydro Services Inc	(586) 978-0425	Effect of Water Quality on Health and Equipment Within a Plumbing System



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
BUREAU OF CONSTRUCTION CODES
IRVIN J. POKE
DIRECTOR

STEVE ARWOOD
DIRECTOR

DOCUMENT #14-08

December 11, 2013

TO: Members of the Construction Code Commission

FROM: Larry Lehman, Chief
Building Division

SUBJECT: Continuing Education Instructor Applications

Attached is a list of those individuals who have applied for approval as instructors of continuing education programs required of building officials, inspectors and plan reviewers. The instructors listed have been granted lifetime approval.

Each has documented training and experience in the topic which they propose to teach.

It is the recommendation of Bureau staff that they be approved as instructors by the Commission.

LL/kja

Attachments

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Department of Licensing and Regulatory Affairs-Bureau of Construction Codes-2012/2015 New Instructors

Instructor Number	Last Name	First Name	MI	Affiliation/Experience
2081	Overcash	Glenn	T	International Code Council
2082	Drzyzga	Mae	E	
2083	Alfonsi	Tracey	J	Construction Asc. Of MI
2084	Klaiman	Jeffrey	M	
2085	Marshall	Laura	J	AcornVac Inc.
2086	Zinn	Thomas	K	AcornVac Inc.
2087	Drew	Daniel	M	
2088	Watkins	Mitchell	R	
2089	Gibson	Jeff	A	
2090	Higgs	Darrel	P	DPH Consulting LLC
2091	Kutzura	Douglas	P	LARA/Fire Services
2092	Tanner	Jeff	R	LARA/Fire Services

Department of Licensing and Regulatory Affairs-Bureau of Construction Codes-2012/2015 Renewal Instructors

Instructor

Number	Last Name	First Name	MI	Affiliation/Experience
64	Hall	Richard	W	International Code Council
280	Ode	Mark	C	International Code Council
141	Surbrook	Truman	C	Michigan State University
613	Hutchins	Danny	T	DiHydro Services Inc.

BUILDING OFFICIALS RECOMMENDED FOR CCC APPROVAL

BROWN, George H.
Registered Building Inspector (002337) since 10/1989
Additional Building Official
Albee Township – Saginaw County

IVESON, Roger
Previously registered (005071) BO (03/2006), BI (01/2004) and PR (07/2004)
Replacing Jason Brinkhuis (004821)
City of Kalamazoo – Kalamazoo County

KESSLER, Richard W.
Registered BI/PR (001244) since 08/1987
Additional Building Official
City of Troy – Oakland County

MORAD, Michael J.
Registered Building Inspector/Plan Reviewer (005703) since 10/2011
Replacing Paul Featherston (004212)
City of Birmingham – Oakland County

VARNER, Kevin P.
Registered Building Inspector/Plan Reviewer (002028) since 05/1988
Additional Building Official
Homer Township – Midland County

BUILDING INSPECTORS RECOMMENDED FOR CCC APPROVAL

BOWERMAN, Micah G.
20,800 hours experience in building
Additional Inspector
State of Michigan

CODRON, John C.
13,600 hours experience in building
Additional Inspector
Clinton Township – Macomb County

DEMARR, David C.
8,320 hours experience in building
Replacing Robert Palmer (002004)
Vienna Township – Genesee County

HANSEN, Mark E.
9,120 hours experience in building
Additional Inspector
City of Manistee – Manistee County

IVESON, Roger
Previously registered (005071) BO (03/2006), BI (01/2004) and PR (07/2004)
Replacing Jason Brinkhuis (004821)
City of Kalamazoo – Kalamazoo County

PEREZ, Sergio T.
14,560 hours experience in building
Additional Inspector
State of Michigan

STROUP, Todd A.
Licensed Professional Engineer#6201049244 (07/2002)
Additional Inspector
Fruitport Township – Muskegon County

SURBROOK, James J.
15,600 experience in Building
Additional Inspector
Sanilac County

PLAN REVIEWERS RECOMMENDED FOR CCC APPROVAL

BOWERMAN, Micah G.
20,800 hours experience in building
Additional Plan Reviewer
State of Michigan

BROWN, George H.
Registered Building Inspector (002337) since 10/1989
Additional Building Official
Albee Township – Saginaw County

DEMARR, David C.
8,320 hours experience in building
Replacing Robert Palmer (002004)
Vienna Township – Genesee County

DOWNS, Joseph M.
Journey Plumbing License#8220287 (04/2002)
Additional Plan Reviewer
Bloomfield Charter Township – Oakland County

FILL, James D.
Master License#8105962 (01/1985)
Additional Plan Reviewer
City of Wayne – Wayne County

GROOTHUIS, Samuel J.
Registered MI/PI (004862) since 12/2002 and 01/2003 respectively
Additional Plan Reviewer
City of Allegan – Allegan County

HANSEN, Mark E.
9,120 hours experience in building
Additional Plan Reviewer
City of Manistee – Manistee County

IVESON, Roger
Previously registered (005071) BO (03/2006), BI (01/2004) and PR (07/2004)
Replacing Jason Brinkhuis (004821)
City of Kalamazoo – Kalamazoo County

KLINE, James M.
Master License#8107960 (01/1983)
Replacing David Murray (001053)
Lyon Charter Township – Oakland County

MILLER, Ryan G.
Master License#8112488 (01/2010)
Replacing Leonard D. Czinski (004680)
Northville Charter Township – Wayne County

PAWLAK, Mark P.
Master License#6204888 (05/1992)
Additional Plan Reviewer
Convis Township – Calhoun County

PEREZ, Sergio T.
14,560 hours experience in building
Additional Plan Reviewer
State of Michigan

STROUP, Todd A.
Licensed Professional Engineer#6201049244 (07/2002)
Additional Plan Reviewer
Fruitport Township – Muskegon County

SURBROOK, James J.
15,600 experience in Building
Additional Plan Reviewer
Sanilac County

ELECTRICAL INSPECTORS RECOMMENDED FOR CCC APPROVAL

PAVICIC, Nicholas M.
Master License#6211977 (01/2002)
Additional Inspector
City of Wayne – Wayne County

PAWLAK, Mark P.
Master License#6204888 (05/1992)
Additional Inspector
Convis Township – Calhoun County

PLUMBING INSPECTORS RECOMMENDED FOR CCC APPROVAL

COLE, Craig S.
Journey License#8217136 (10/1992)
Additional Inspector
State of Michigan

DOWNS, Joseph M.
Journey License#8220287 (04/2002)
Additional Inspector
Bloomfield Charter Township – Oakland County

FILL, James D.
Master License#8105962 (01/1985)
Additional Inspector
City of Wayne – Wayne County

KLINE, James M.
Master License#8107960 (01/1983)
Replacing David Murray (001053)
Lyon Charter Township – Oakland County

MILLER, Ryan G.
Master License#8112488 (01/2010)
Replacing Leonard D. Czinski (004680)
Northville Charter Township – Wayne County



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
BUREAU OF CONSTRUCTION CODES
IRVIN J. POKE
DIRECTOR

STEVE ARWOOD
DIRECTOR

DOCUMENT #14-10

December 9, 2013

TO: Members of the Construction Code Commission
FROM: Joseph T. Madziar, Plumbing Division Chief
SUBJECT: Approval of See Water Inc. Liquid Smart Pump Systems, BCCP-12-007

The applicant has requested product approval to provide product acceptance through approval clarification for an alternative product to address elevator sump requirements. The product for consideration is the Liquid Smart Pump System, incorporating the See Water, Inc. Models OSSIM-30-OR and OSSIM-30-2.

This product consideration request is for approval of an alarm system which uses sensors to direct water to sewer and oil to containers (Section 1003.4, exception) rather than the code required oil interceptor.

APPLICANT REPRESENTATIVE:

Mr. Michael Johnson

APPLICANT:

See Water Inc.
PO Box 1269
San Jacinto, CA 92581

AUTHORITY:

Section 21 of Act 230, 1972 being section 125.1521 of the Michigan Compiled Laws.

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PRODUCT:

Liquid Smart Pump Systems, incorporating the See Water Models OSSIM-30-OR and the OSSIM-30-OR-2

PRODUCT DESCRIPTION:

The alarm system differentiates between oil and water. The system incorporates See Water Oil Smart sensing technology and is designed to operate in conjunction with one or two pumps. The system will automatically pump water to the sanitary drain system and oil to a containment tank.

APPLICATION:

The system is designed for hydraulic elevator pits where there is a risk of hydraulic oil leaking or spilling into the pit along with the presence of water which may be present from fire suppression discharges or smaller leaks into the pit from ground water.

The system will consist of either one pump or two pumps. Either system will be provided with sensing units that differentiate between oil and water. Oil will be pumped to an oil containment container and water to the sanitary drain. An audible alarm will sound when either water or oil is sensed and pumped from the elevator pit.

APPLICABLE CODE SECTION:

Michigan Plumbing Code

Section 301.6 Prohibited locations, allows sumps in an elevator pit if Section 1003.4 is met.

Section 1003.4 Oil separators required. Oil separators are now required in hydraulic elevator pits unless an approved alarm system is installed. This product consideration request is for approval of an approved alarm system.

Note: The elevator requirements now mandate sumps in hydraulic elevator pits. The purpose is to remove water (from fire suppression system discharges) when present. This will assure continued elevator operation for fire department personnel.

INTENDED USE:

Sump pump system sized and designed to meet ASME A17.1 Section 2.2.2.5 (2007). System designed to limit any pumping of FOG's or Hydraulic oils to the sewer, control system is completely automatic and will deliver all oil to a storage system and only clear water to the sewer.

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APPROVALS/TESTS:

CSA, Certificate of Compliance # 1659383, Issued 2008/09/19, as Process Control Equipment.

UL, Report File E320866, December 4, 2010, as Programmable Controller

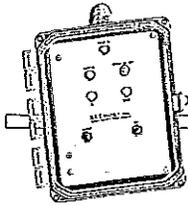
CONDITIONS OF USE AND INSTALLATION:

1. All requirements of the Michigan Plumbing Code shall be applicable.
2. Shall be installed in accordance with manufacturer's installation instructions.
3. Pumping shall not be terminated by alarm activation.
4. Activated alarms shall take place within close proximity to the elevator and at the building management site to assure responsible surveillance.
5. The sump pump total dynamic head and the oil storage containment tank size and capacity are to be established by their Architect/Engineer or designer during the design phase of a project.
6. This approval shall become void if and when the product no longer meets the requirements of the Michigan Plumbing Code or a change in design/designation occurs.

RECOMMENDATION:

The plumbing board recommended the product to the commission for approval at the December 3, 2013 board meeting.

Providing for Michigan's Safety in the Built Environment



Automatic removal of water and oil; designed for applications where immediate responsible removal of oil is required

Models:

OSSIM-30-OR, Single Phase 120/208/240VAC

Operation: Will pump water and oil separately. Oil will be pumped to an oil storage tank, while water will be pumped to storm discharge or sewer; System is setup to work in conjunction with one pump and two quick acting electric valves. Optional 1.5", 2" or 2.5" quick acting valves.

OSSIM-30-OR-1, Single Phase 120/208/240VAC

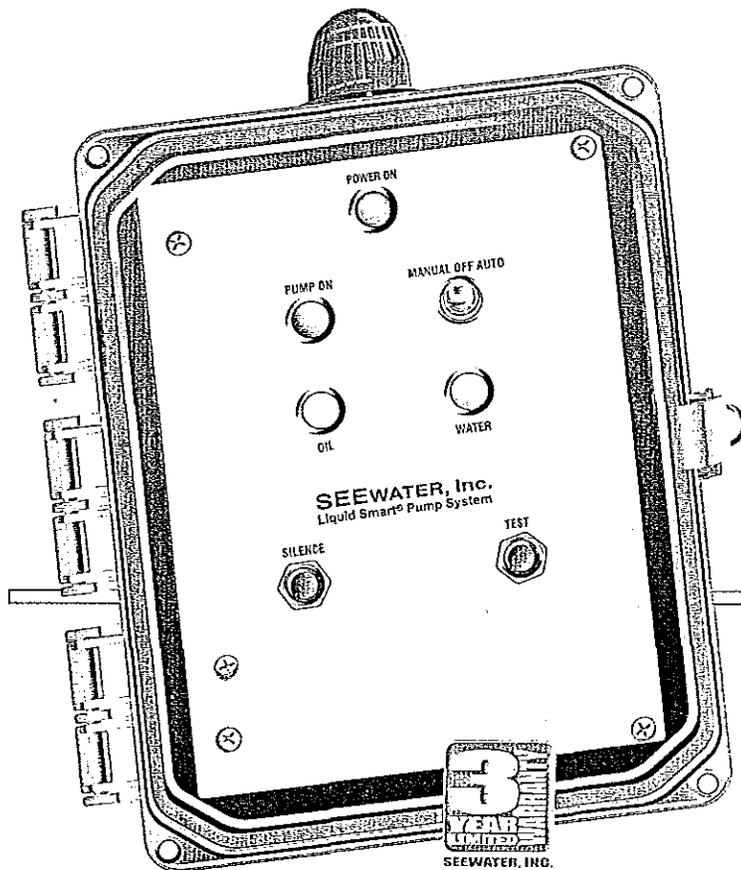
Operation: Will pump water and oil to the normal discharge area. Equipped with an adjustable alarm timer to alarm when oil is present; timer is set to alarm for 30 seconds when oil is being pumped from containment areas.

OSSIM-30-OR-2, Single Phase 120/208/240VAC

Operation: Will pump water and oil separately. Oil will be pumped to an oil storage tank, while water will be pumped to storm discharge or sewer; System is setup to work in conjunction with two separate pumps.

Features:

- UL Listed for the United States and Canada (Panel and Controls)
- Pump Control and High Liquid Alarm differentiate between oil and water
- Pump Control Visible Indicators: Pump #1 Hand-Off-Auto (H.O.A.) Switch, Green Pump Run Light and Power On Light
- Alarm Visible Indicators: High Red Beacon Alarm Light Yellow Light for Oil, White Light for Water, Alarm Test and Silence Buttons
- High 85 Decibel Audible Alarm
- Complete Panel Remote Monitoring Dry Contacts: Oil, Water, High Liquid



Applications:

- Elevator Sumps
- Transformer Containment Areas
- Underground Vaults
- Any application where there is a need to remove water while containing oil

Specifications:

- Panel Enclosure: Heavy Duty NEMA 4X Polycarbonate, 10"x10"x6"
- Components Enclosure: Type 3R High Impact Injected Plastic
- Oil Smart Switch Dimensions: 2.5"W x 6"H x 1.75"D plus 6" sensor
- Liquid Smart Switch Dimensions: 3.5"H x 1.5"W x 1.5"D

www.seewaterinc.com
or www.oilsmart.org

951.487.8073 • 888.733.9283
Email: info@seewaterinc.com

121 North Dillon Street • San Jacinto, CA 92583
P.O. Box 1269 • San Jacinto, CA 92581

Protecting the Environment since 1995.

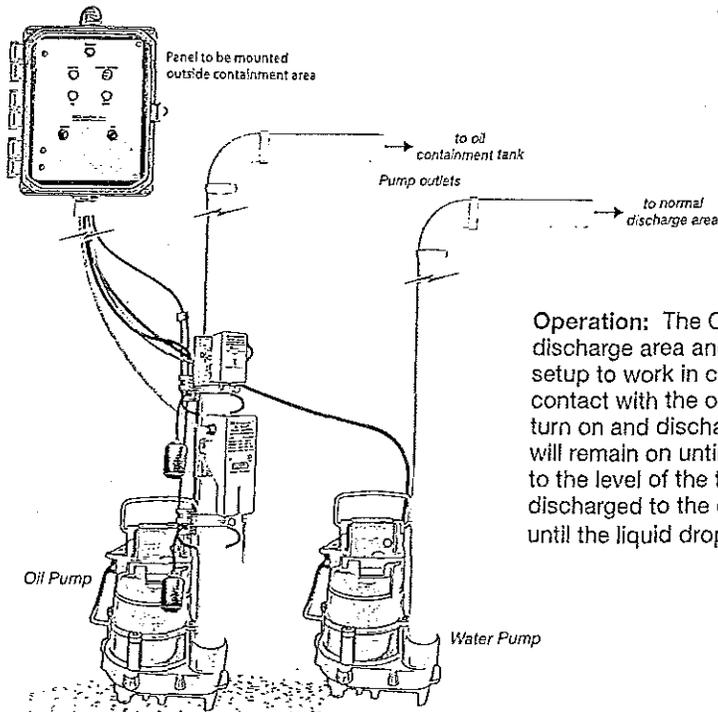
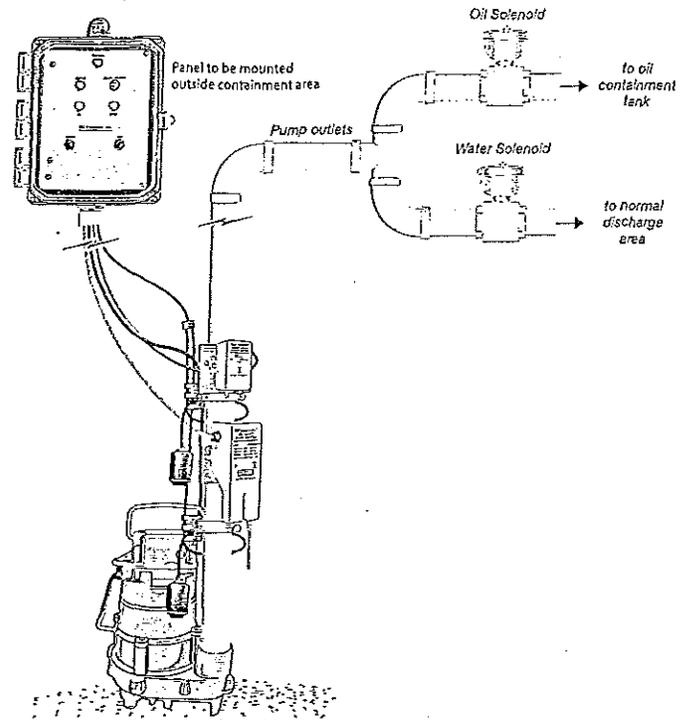
SEEWATER Inc. 
"OIL SMART" Water Pump Switches

LIQUID SMART® PUMP SYSTEMS

Operation: The OSSIM-30-OR system will pump water to the normal discharge area and pump oil to a separate containment area; the system is setup to work in conjunction with one pump, one normally open solenoid valve, and one normally closed solenoid valve. When water comes in contact with the on sensor of the oil smart pump control, the pump will turn on and discharge water to the normal discharge area. The pump will remain on until water clears the off sensor. If oil enters the sump and rises to the level of the turn on float, the oil alarm will sound, the solenoids will be notified to open and close, and the oil will be discharged to the oil holding tank. The pump will remain on until the liquid drops below the off float.

Operation: The OSSIM-30-OR-1 system (Not Shown) will pump water and oil to the normal discharge area. The system is equipped with an adjustable alarm timer to alarm when oil is present; the timer is set to alarm for 30 seconds when oil is being pumped from the sump. When water comes in contact with the on sensor of the oil smart pump control, the pump will turn on and discharge the water. The pump will remain on until water clears the off sensor. If oil enters the sump and rises to the level of the wide angle float, the oil alarm will sound for 30 seconds and the oil will be pumped to the normal discharge area.

OSSIM-30-OR



OSSIM-30-OR-2

Operation: The OSSIM-30-OR-2 system will pump water to the normal discharge area and pump oil to a separate containment area; The system is setup to work in conjunction with two separate pumps. When water comes in contact with the on sensor of the oil smart pump control, the water pump will turn on and discharge water to the normal discharge area. The water pump will remain on until water clears the off sensor. If oil enters the sump and rises to the level of the turn on float, the oil alarm will sound and the oil will be discharged to the oil holding tank via the oil pump. The pump will remain on until the liquid drops below the off float.

www.seewaterinc.com or www.oilsmart.org

951.487.8073 • 888.733.9283 • Email: info@seewaterinc.com

121 North Dillon Street • San Jacinto, CA 92583

P.O. Box 1269 • San Jacinto, CA 92581

Printed in U.S.A.

Protecting the Environment since 1995.

SEEWATER Inc.
"OIL SMART" Water Pump Switches

Certificate of Compliance

Certificate: 1659383

Master Contract: 229594

Project: 2027478

Date Issued: 2008/09/19

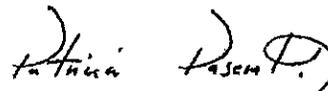
Issued to: SEEwater Inc.
121 N Dillion Street
San Jacinto, CA 92583
USA
Attention: Mike Johnson

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US'



Issued by: Dennis Smith

Authorized by: Patricia Pasemko, Operations Manager



PRODUCTS

CLASS 2252 83 - PROCESS CONTROL EQUIPMENT - Certified to US Standards
CLASS 2252 03 - PROCESS CONTROL EQUIPMENT

Alarm, model OIL SMART OSA-05, OSA-06. Rated 120 V, 50/60 Hz, 1.5 A.

(Controller) OIL SMART Simplex and Alarm Panel, model OSSIM-30. Rated 120 V, 50/60 Hz, 1.5 A with a 120/240 V, 30 A relay connection.

OIL SMART Duplex Panels:

Model OSDIP-3 Rated single phase 0-1.5HP 120V 3HP 240V 50/60Hz, with two 120/240V, 30 Amp relay

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator. NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards.

2

File E320866
Project 10CA34437

December 04, 2010

REPORT

On

UNLISTED COMPONENT - PROGRAMMABLE CONTROLLERS
(NRAQ3)

for use only in

APPLICANT'S LISTED INDUSTRIAL CONTROL PANELS

SEE WATER INC
San Jacinto, CA

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RECEIVED
12/14/10
10:11 AM
UNDERWRITERS LABORATORIES
17000 W. WASHINGTON AVE
TOLSON, ILLINOIS 61288



DESCRIPTION

PRODUCT COVERED:

USU - Open-type Programmable Controller, Alarm Board, Part No. MSI FVH.

used in Oil Smart Alarm OSA-OS

GENERAL:

These devices are open type programmable controllers with a programmable memory for storing instruction to implement specific function such as logic, timing, counting and pre-defined functionalities. They are intended to be used in industrial control applications where the suitability of the combination has been determined by Underwriters Laboratories Inc.

ELECTRICAL RATINGS:

Supply - 120/240 V, 60 Hz, 1-Phase

Output - 60 V ac/dc, 1.0 A max, resistive (Only two outputs active at a given signal; Water & Alarm or Oil & Alarm)

Ambient - 40°C Maximum

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

USU - Indicates investigation to United States Standard for Industrial Control Equipment - UL 508, 17th Edition.

Use - For use only in Applicant's Listed Industrial Control Panels, where the acceptability of the combination has been determined by Underwriters Laboratories Inc.

Conditions of Acceptability -

1. The terminal blocks are suitable for factory and field wiring applications for use with 20-24 AWG wires with tightening torque of 12 in. lb.
2. This device shall be provided with a suitable mounting means. The suitability of the mounting means shall be determined in the end product investigation. When mounted inside an industrial control panel, a suitable insulating barrier shall be used to provide the required 6.4 mm through air spacing between uninsulated live parts and the metal enclosure.
3. The Alarm Board assembly incorporating the following components: Alarm Light, Model 7-XS and 10-SM, and Buzzer, Model PB-024-AD, are suitable for closing an opening in a Type 4X enclosure. The Alarm Board assembly incorporating the alternate PCB mounted buzzer part no. MAS800Q is not suitable to close an opening of an enclosure.
4. When mounted on the enclosure, the spacing between the exposed live parts of the buzzer and alarm lamp and the overall enclosure shall be in accordance with the requirements of the end-product.
5. Spacing on the printed wiring board were evaluated in accordance with UL 840 "Insulation Coordination Including Clearances and Creepage Distances for Electrical Equipment", Third Edition, Table 9.2, Pollution Degree 2, Overvoltage Category III.
6. The Overload Test was conducted using the optical isolator as a switching device and loaded with the alarm light rated 120 V ac, 10W max.
7. The controller was tested mounted in an enclosure that measures 119mm by 146mm by 44mm deep. Temperature testing shall be considered if mounted in a smaller enclosure. The following components shall be monitored:

Component	Ambient	Temperature Limit
Terminal Block near line or load conductor	40°C	90°C
Capacitor (C1)	40°C	85°C
Buzzer	40°C	66°C
Alarm lamp lead near PCB	40°C	80°C

CONSTRUCTION DETAILS:

General - The devices shall be constructed in accordance with the following descriptive pages.

Tolerances - Unless specified otherwise, all indicated dimensions are nominal.

Corrosion Protection - All parts are of corrosion resistant material or are plated or painted as corrosion protection.

Printed Wiring Boards - Any R/C (ZPMV2) rated V-0, 105°C, minimum CTI of 175 unless otherwise noted, and complies with the direct support requirements in UL 508.

Spacing - The following minimum spacing shall be maintained between uninsulated live-parts of opposite polarity on the PCB of 1.0 mm.

MARKING:

Marking - Ink-stamped label, die-stamped plate permanently secured to each device designating Recognized Company's name, model number and complete electrical ratings (optional), and field wiring marking for 60/75°C.

1. Field Wiring Terminal ratings including tightening torque (12 in-lbs), Wire type (Copper, CU Wire only), temperature rating of Conductor (60/75°C wire), are also provided on the device or in the installation diagrams.
2. Schematic diagram, wiring diagram or equivalent shall be shipped with the device provided to ensure proper field wiring connections.
3. "For installation in a Pollution Degree 2 environment" or equivalent. Shall be optionally provided in the instructions manual.

The letter "U-" shall be used to identify the controller as an Unlisted Component and shall prefix the product Part Number on a removable label.



Alarm Board, Part No. MSI FVH - FIG. 1

General - The general design, shape and arrangement are as follows, except where variations are specifically described.

1. Printed Wiring Board - See Construction Details.
2. Supplemental Fuse (F1) - Listed (JDYX)/CSA Certified, Littelfuse Inc., Cat. No. 312.010, rated 250 V, 1.5 A. Mounted on PC board with cartridge fuse clips, soldered on the PCB.
3. Terminal Block (J1) - R/C (XCFR2/8), Dinkle Enterprise Co Ltd, DT-39, rated 300 V, 10 A, FW=2, UG=D, 105°C.
4. Transformer (T1) - R/C (XPTQ2)/CSA Certified, Signal Transformer Co, Cat. No. DST-3-24, rated 115V/230V, 50/60 Hz, 12V/24V, 2.4 VA. Secondary is connected in parallel. See ILL. 1 for wiring schematic.
5. Relays (K1, K2, K3) - R/C (NRNT2), International Rectifier EAO, Type PVG612, rated 60 V, 1.0 A.
6. Optical Isolators (K4) - R/C (FPQU2)/CSA Certified, Fairchild Semiconductor Corp., Type MOC3012, rated 4170 Dielectric Voltage, 100°C max. operating temperature.
7. Capacitor (C1) - Electrolytic, rated 470 uF, 35 V, 85°C.
8. Push Button Switches (SW1, SW2) - R/C (WOYR2), Nihon Kaiheiki Ind Co Ltd, Cat. No. SB-401, rated 125 Vac, 3 A, 60 Hz, 55°C. (Note: not shown in FIG.)
9. Buzzer - R/C (UCST2/8), AC/DC Equipment Co, Model PB-024-AD, rated 24 V ac/dc, 66°C, environmental rating Type 4X.

Alternate - Part No. MAS800Q manufactured by Mallory Sonalert Products Inc. Rated 12 Vdc, 50 mA. Soldered on the PCB. See ILL. 2 for construction details.

10. Internal Leads - R/C (AVLV2)/CSA Certified, Style 1569, 20 AWG, 105°C. Soldered to printed wiring board, provided with Listed (RFVW) insulated quick-connect terminals, Part No. DNF-18.

Alternate - Same as above, except, Style 1533, 20 AWG, 80°C.

11. Liquid Smart Alarm Switch - Listed (WIZV), See Water Inc, Part No. 079702 Model 2, rated 12 Vdc, 1 A.
12. Alarm Light - R/C (NITW2), Model 7-XS or 10-SM manufactured by AC/DC Equipment Co. Model 7-XS rated 120 Vac, 7 W max and 10-SM rated 120 V ac, 10 W max, environmental rating Type 4X.



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
BUREAU OF CONSTRUCTION CODES
IRVIN J. POKE
DIRECTOR

STEVE ARWOOD
DIRECTOR

DOCUMENT #14-11

December 9, 2013

TO: Members of the Construction Code Commission
FROM: Joseph T. Madziar, Plumbing Division Chief
SUBJECT: Approval of Penner Manufacturing Inc., Cascade Contour Bathing System, Model 360030-1C, BCCP-13-003

The applicant has requested product approval to provide health care facilities product acceptance through approval clarification of a product very similar to those in 1593-PA and 1537-PA

APPLICANT REPRESENTATIVE:

Mr. Dale Wall

APPLICANT:

Penner Manufacturing, Inc.
102 Grant Street.
Aurora, NE 68818

AUTHORITY:

Section 21 of Act 230, 1972 being section 125.1521 of the Michigan Compiled Laws.

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PRODUCT:

Cascade Contour Bathing System, Model 360030-1C

APPLICATION:

Centralized bathing system designed for nursing home, assisted living, and other healthcare facilities

LABORATORY TESTS:

Underwriters Laboratories Inc. and NAHB Research Center, Inc.

CONDITIONS OF USE AND INSTALLATION:

1. All requirements of the Michigan Plumbing and Electrical Codes shall be applicable.
2. Installations shall be in accordance with the manufacturer's specifications.
3. Requests from hospital or care institutions must be approved by the Health Department having jurisdiction.
4. Both hot and cold water supplies shall be protected by an approved reduced pressure principle backflow preventer.
5. The unit shall discharge into an approved waste receptor.
6. This approval shall become void if and when the product no longer meets the requirements of the Michigan Plumbing Code or a change in the design/designation occurs.

RECOMMENDATION:

The plumbing board recommended the product to the commission for approval at the December 3, 2013 board meeting.

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BUREAU OF CONSTRUCTION CODES
IRVIN J. POKE
DIRECTOR

STEVE ARWOOD
DIRECTOR

Document No. 14-04

January 8, 2014

TO: Members of the Construction Code Commission

FROM: Todd Y. Cordill, NCARB, Chief, Plan Review Division

SUBJECT: **Compliance Assurance No. 553**
Certificate of Acceptability
Restroom Facilities LTD
1707 Colt Circle
Marble Falls, TX 78654

A handwritten signature in black ink, appearing to read "Todd Y. Cordill", written over the "FROM:" line of the memo.

The above manufacturer has submitted a Compliance Assurance Program and appropriate fees. The inspection and evaluation agency has been previously certified by the Construction Code Commission. The Plan Review Division has evaluated the submission for compliance with Rules 1161 through 1168 and recommends that the Commission issue a Certificate of Acceptability, in accordance with Sections 4 and 19 of 1972 PA 230, MCL 125.1504, and the General Rules, Part 11 Premanufactured Units, Rule 1132(1).

TYC/mt

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RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
BUREAU OF CONSTRUCTION CODES
IRVIN J. POKE
DIRECTOR

STEVE ARWOOD
DIRECTOR

Document No. 14-05

January 8, 2014

TO: Members of the Construction Code Commission

FROM: Todd Y. Cordill, NCARB, Chief, Plan Review Division

SUBJECT: **Compliance Assurance No. 544**
Certificate of Acceptability
Speed Space
65213 CR 31
Goshen, IN 46528

The above manufacturer has submitted a Compliance Assurance Program and appropriate fees. The inspection and evaluation agency has been previously certified by the Construction Code Commission. The Plan Review Division has evaluated the submission for compliance with Rules 1161 through 1168 and recommends that the Commission issue a Certificate of Acceptability, in accordance with Sections 4 and 19 of 1972 PA 230, MCL 125.1504, and the General Rules, Part 11 Premanufactured Units, Rule 1132(1).

TYC/mt

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GOVERNOR

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BUREAU OF CONSTRUCTION CODES
IRVIN J. POKE
DIRECTOR

STEVE ARWOOD
DIRECTOR

Document No. 14-06

January 8, 2014

TO: Members of the Construction Code Commission

FROM: Todd Y. Cordill, NCARB, Chief, Plan Review Division

SUBJECT: **Compliance Assurance No. 546**
Certificate of Acceptability
Kings Custom Builders Inc
1608 US Highway 19 S
PO Box 584
Ellaville, GA 31806

The above manufacturer has submitted a Compliance Assurance Program and appropriate fees. The inspection and evaluation agency has been previously certified by the Construction Code Commission. The Plan Review Division has evaluated the submission for compliance with Rules 1161 through 1168 and recommends that the Commission issue a Certificate of Acceptability, in accordance with Sections 4 and 19 of 1972 PA 230, MCL 125.1504, and the General Rules, Part 11 Premanufactured Units, Rule 1132(1).

TYC/mt

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