



2007
Partner Recognition
Award Application

Organization Name: StoneCrest Medical Center
(As it would appear on the award!)

Health System Name: HCA
Subscriber ID #: 026Z01

Address: 200 StoneCrest Blvd
City: Smyrna **State Code:** Tn **Zip Code:** 37167
Phone: 615.768.2169 **Fax:** 615.768.2162

Primary Contact: Brad Baker **Title:** Director
E-mail: brad.baker@hcahealthcare.com
Department: Plant Operations

Secondary Contact: Nan Skubic **Title:** Administrative Assistant
E-mail: nannette.skubic@hcahealthcare.com
Department: Plant Operations

Please list any past H2E Awards and note the year received: N/A

Optional: Award winners receive a congratulatory letter and award packet sent to the contacts you designate below. Consider addressing the letter to your CEO or other leadership and let us know up to 2 additional people to copy. If no names are listed below, the letter and packet will be sent to the Primary Contact. Please indicate a different mailing address if necessary.

Award Letter Name and Title: Neil Heatherly , CEO
Cc#1 Name and Title: David Nicely, VPO
Cc#2 Name and Title: Ellen McCluggage , CNO

Name: Brad Baker, DPO **Signature:** _____

Award Application Checklist: Please confirm with an "X" in the boxes below.

- Reviewed the Award Eligibility Guidelines and Application Guidelines?
- Referenced and attached supporting documentation of no more than 15 pages?
- E-mailed as much of this application as possible, including supporting documents, to awards@h2e-online.org?
- Included 3 copies of your full application package?
- Facility is an H2E Subscriber? Subscribe at www.h2e-online.org/Registration/
- Confirmed no significant EPA or OSHA Violations in past 12 months?

All applications must be received at the H2E office (address below) by Feb 14, 2007.

Application Instructions

Eligibility Guidelines

- ✓ Applicants must be both an H2E Partner & Subscriber to apply for an H2E Award. To become a Partner, please join online at www.h2e-online.org/partners/joinnow.cfm. To become a subscriber, please subscribe at: www.h2e-online.org/Registration/.
- ✓ Applicants must be in compliance with OSHA and EPA regulations for the last 12 months. Facilities that are in significant violation will not be considered. H2E Partners who submitted excellent applications, but had significant violations have been disqualified from receiving an award as a result. Don't let this happen to you. Take the time to check with your colleagues to find out if you've had a violation in the last calendar year, and visit H2E's [Understanding Your Compliance History](#) webpage for guidance. If you are unsure whether a violation is likely to disqualify you, please contact the H2E Awards Coordinator at awards@h2e-online.org

Application Guidelines

- ✓ If this is your first time applying for an H2E award, you may receive credit for environmental/pollution prevention work you've been doing since the H2E program's inception in 1998. If you've previously applied and received any H2E award, please only include the work done since your last award application. H2E is looking for incremental improvements.
- ✓ All award decisions will be made based solely on the merits of the information provided in the award application.
- ✓ If you are using corporate health system policies, please attach policies and describe how these policies are being implemented at your facility.
- ✓ Award application materials become the property of H2E—they will not be returned.

How to Apply

- ✓ Please limit your supplemental materials to no more than 15 pages. Contact the H2E office at 603/795-9966 should you need to exceed the 15 page limit.
- ✓ Supporting documentation refers to sample policies, training programs, tracking forms, posters, and other information that could serve as a model for other Partners. We discourage the use of electronic presentations and meeting minutes as supporting documentation.
- ✓ Applications must be received both by post and electronic mail no later than February 14, 2007 at the addresses listed below. Incomplete or late award applications will not be considered for this award cycle. No supplemental materials will be allowed after February 14, 2007.

Mailing Instructions

- ✓ E-mail an MS Word copy of the application by February 14, 2007 to awards@h2e-online.org with as many of the supporting documents as possible in an electronic format. The H2E Awards Coordinator will reply to this e-mail to confirm receipt of your application.
- ✓ Also mail 3 hard copies of application package to arrive by Feb 14, with all supporting documentation to: **Hospitals for a Healthy Environment (H2E),
PO Box 376, Lyme, NH 03768, Attention: H2E Awards Coordinator.**
- ✓ For Fed Ex or UPS deliveries, use **1 Lyme Common, Lyme, NH 03768**

I. Facility Information—Required

StoneCrest is a “Greenfield” facility in northern Rutherford County. As demonstrated by the following information remains pro-active in maintaining a remarkable culture of environmental stewardship in the community it serves. Based on the historical data I would submit that the hospital meets the criteria for at least this award if not the PFC.

Facility Type	Total
In-Patient/Hospital	Adjusted Patient Days per Year ¹ <input type="text" value="31722"/>
	Or Other Metric (e.g. Patient Days) <input type="text"/>
	# Licensed Beds <input type="text" value="75"/>
	# Staffed Beds <input type="text" value="75"/>
Ambulatory Care/Outpatient Clinics	# Outpatient Visits per year <input type="text"/>
Long Term Care	# Beds <input type="text"/>
ALL	# FTE's <input type="text" value="381"/>

¹Note: We prefer to use adjusted patient days as our primary standardization metric. Check with your Admitting or Finance Department to see if they track “Adjusted Patient Days.” If not, please provide “other” standardizing metric. (Adjusted Patient Days = Ttl Patient Days X (Ttl Patient Revenue (Inpatient + Outpatient))/Inpatient Revenue)

Waste Assessment Summary—Required. (Applications with incomplete waste summaries will not be considered. Please contact H2E for assistance if necessary.)

2004 first full year of operations. 100% of the 2004 solid waste data unavailable. Waste hauler computer failure. “Bio-Systems”, replaced MDS Company for sharps collection. MDS unable to provide data. Tonnage from first 8 months of service in 2004 can be averaged out, if permitted. Recycling/reduction activities and dollars spent are evidenced for many categories of waste stream. StoneCrest developed many concepts of operations prior to opening doors on November 30th, 2003. Project Cure donations would drive all percentages higher if weights available on equipment/instruments and supplies. Dollars are evidenced

Baseline Year: **2005**

Current Year: **2006**

Waste Management Category	Pounds/Year		Percent of Total Waste		Annual Costs	
	Baseline	Current	Baseline	Current	Baseline	Current
Solid Waste	<input type="text" value="547240"/>	<input type="text" value="421640"/>	<input type="text" value="84.62"/>	<input type="text" value="74.70"/>	<input type="text" value="22699"/>	<input type="text" value="29977"/>
Recycling/Reuse	<input type="text" value="59699"/>	<input type="text" value="90367"/>	<input type="text" value="9.23"/>	<input type="text" value="16.01"/>	<input type="text" value="10903"/>	<input type="text" value="13679"/>
Regulated Medical Waste (Bio – Systems Sharps collections included)	<input type="text" value="39761"/>	<input type="text" value="48535"/>	<input type="text" value="6.14"/>	<input type="text" value="8.59"/>	<input type="text" value="15950"/>	<input type="text" value="17319"/>
Hazardous Waste *(Gallons) 2004 -1400 12040 lbs	<input type="text" value="-0-"/>	<input type="text" value="3870"/>	<input type="text" value="-0-"/>	<input type="text" value=".6"/>	<input type="text" value="640"/>	<input type="text" value="5602"/>
Total	<input type="text" value="646700"/>	<input type="text" value="564412"/>	<input type="text" value="100"/>	<input type="text" value="100"/>	<input type="text" value="50192"/>	<input type="text" value="66577"/>

Note: Remember to include Universal Wastes within the recycling/reuse category.

* StoneCrest has self-contained 750 gallon tank which captures ED decontamination run-off from shower rooms. Utilize Haz-Mat company to pump out. "PPM" levels of contaminate unknown, so hence deemed "hazardous". (Risk mitigation)

* Emergency services provider for Haz-Mat assisted with sewage blockage preventing waste contamination to local waterway via storm drains on campus. Have Spill Prevention, Contingency, and Control Plan survey and in place since March 2005. EPA requires this plan be conducted by certified environmental engineer. American Enviro Company

Do the waste numbers above include construction and demolition debris? N/A

No construction/renovation since opening or at time of report. "Greenfield" facility, opened doors November 2003

Construction and Demolition Debris	Pounds/Year	Annual Costs
Amount of C&D waste going to solid waste	N/A	
Amount of C&D waste being recycled	N/A	

II. Facility Mercury Assessment

A. Is your facility virtually mercury free? Yes No

B. Has your facility:

- Conducted a facility inventory of mercury containing devices and chemicals?
Work In Progress – Updated list in progress for 2006/2007
- Implemented a mercury-free purchasing policy? (attach) Yes No
- Eliminated mercury-containing patient care devices? (e.g., thermometers, sphygmomanometers, bougies, dilators) Yes No

C. Please highlight efforts to eliminate mercury from your facility to date: Prior to opening mercury elimination efforts were in place. Analog/Digital signal based energy management system replaced traditional thermostats, sensors, and probes containing mercury. Original and replacement thermometers/blood pressure cuffs mercury free. Building engineered with lighting using "T+8" size tubes, which are lit by low mercury "ECO" lamps supplied by Grainer/GE Company

III. Environmental Policies

Please indicate if your facility has any of the following policies. *Please attach copies of any policies.

- A. Facility Environmental Commitment Statement Yes
- B. Comprehensive Waste Management Policy Yes (Haz-Mat)
- C. Mercury Management/Elimination Policy Policy Review/Edit in Progress
- D. Environmentally Preferable Purchasing Policy Policy Review/Edit in progress
- E. Please highlight other organizational efforts to promote environmental programs in your facility (policies, committee structures, trainings, etc.): EOC.HAZ.002,DC.001,DC010

H2E Partner when opened doors in 2003. Environmental impact considered during design/construction. Impact Fee paid to Town Of Smyrna by HCA. Environmental

Services Director and Director of Plant Operations involved with List serve communications 2004.

Formally announced H2E program to staff in November 2006, using daily line meeting forum to communicate about H2E and educate on 2007 goals. Monthly house wide staff newsletter is one vehicle for information dissemination. Chairman of Environment of Care Committee provides updates to committee on H2E program. (Bi-monthly meeting) Waste Stream audits in December 2005 and again in February 2007 to gauge effectiveness of staff education. Performance Improvement Indicators selected to target regulated medical waste/MSDS/Hazardous Waste knowledge and compliance issues.

IV. Waste Minimization Programs

- A. Has your facility implemented an RMW minimization program? Yes X No
- B. Has your facility implemented any recycling programs? Yes X No
- C. Please describe any waste minimization, recycling or reuse initiatives at your facility:

2003/2004/2005/2006

StoneCrest opens doors on November 30th, 2003 with several green initiatives in place.

Digital Imaging technologies eliminated need for film and speed patient care delivery processes

Energy Management System designed and environment maintained efficiently through daily adjustments of discharge air temperatures of air handler units.

Oil less medical vacuum pumps/air compressors means no oil to dispose of after preventive maintenance.

Use food grade grease for any equipment in Food and Nutrition Service areas

Battery buckets deployed house wide and in use

Reusable cartons used for material deliveries from central warehouse. (Supply Chain Warehouse)

Deliveries arrive on plastic reusable pallets (Average 17 per week).

Pallets made of wood that arrive by "other" vendors, recycled by local company.

Cardboard compactor installed

Lighting stock purchased on as needed basis and recycled. GE- "ECO" brand, which is supplied by Grainger Company

Hospital designed using "T-8" sized energy saving lighting.

Self-contained run off tank captures Emergency Department decontamination shower room run off.

Recycled toner cartridges, purchasing/recycling processes in place (Average 550 per year)

Above ground diesel tank with environmental monitoring meeting all latest codes. Tested annually, monitored daily on Plant Operations building rounds

Spill Prevention, Contingency and Control Plan in place with inventory house wide of hazardous materials whose container size is larger than staff could clean up safely.

Power Plant - Chemicals kept to as needed basis and utilize "Neat Delivery System" minimizing spill risks and maintaining stock at lowest level possible for daily operations. Automated

chemical injection system and weekly testing maintain chemical levels within recommended guidelines. Water meters installed to gauge evaporation rate of cooling towers and water consumption/discharge. (Chem-Treat Company)

Rain gauge/sensor designed into lawn irrigation system for water conservation

Campus has retention ponds for water shed management

Fountain Plaza recycles water via closed loop system

Project Cure donations sent for reuse in developing nations, United Way affiliation

Recycled office supplies and items containing post consumer product available through Corporate Express and new vendor Office Max for 2007

V. Hazardous Substances

A. Has your facility implemented any programs to reduce the use of hazardous chemicals? (e.g. green cleaning, integrated pest management, elimination of glutaraldehyde or ethylene oxide, etc.) Please describe:

Chose "Medi-Vator" for scope cleaning prior to opening in 2003. Equipment uses a product called "Rapicide" which has a low quantity of glutaraldehyde compared to other processes used. **No ETO for any sterilization processes.**

Steri- Tech Pest Control Company - Utilizes integrated program and has been recognized for environmental stewardship.

Film less digital imaging technologies selected, eliminating need for recycling x-ray film.

Fiber Mop system selected by EVS.

Chemical comes premixed and dispensers eliminate manual pre-mixing, mop heads decrease water consumption, chemical use and cross contamination.

Decreased water consumption used for bucket rinsing by 33%

2005 - Improved sharps collections process and reduced employee injuries by utilizing "Bio-Systems". Sharps containers are secured against tampering, hospital staff do not have to handle the exchange. Bio-Systems uses recycled containers as H2E is aware.

March – SPCCP in place by American Enviro Company

B. Has your facility instituted any recycling or reprocessing programs for hazardous chemicals or products with hazardous components? (e.g. electronics, solvents, batteries, fluorescent lamps, etc.) Please describe:

Project Cure donations involving surgical supplies and imaging/medical equipment:

2004 – Surgical instruments

2005 – StoneCrest donated all medical equipment from ER and Imaging Clinic which new facility replaced. The CT machine itself had estimated value of 15K

EKG machine, Physiological monitor, Infant warmer, Portable X-Ray, R&F room, HF “Rad” Room, CT machine, Blood Analyzer, Water Purification System, Exam lights, Raython “Rad” Room, Stress System

**2006 – June - Ultra-Sound Unit valued at estimated \$6,995.00
Surgical supplies/instruments for year, \$10,512.59**

VI. Other

Please describe any other innovative programs your facility has implemented in an effort to improve environmental performance (including energy efficiency, water conservation, green building, etc.):

AREAS OF INNOVATION & IMPROVEMENT

Utility Management

2003 – StoneCrest opened doors with cutting edge technologies in area of energy management system, with monitoring points covering virtually all areas of utility management.

2004 – **75K** spent on domestic water softener for treating all incoming municipal water supply. Resulted in decreased repairs and increased efficiencies in operations of sterilizers, decreased amount of chemicals and time used in general housekeeping practices hospital wide.

2005

Cooling Tower System

Eliminated dangerous *isothiazolone* biocide from program

“Iso” is known skin sensitizer linked to recurring rashes & glaucoma

Replaced inhibitor used in first year of operations (2004). Chemical contained molybdate

Eliminated excess discharge of heavy metals from cooling tower

Eliminated liquid biocide and introduced innovative dry biocide

Maintain all bacteria counts in spec

Reduced consumption of natural resources

- Decreased Make Up Water by 25%
- Decreased Discharge Water by 50%
- Maintain higher CYCLES of Concentration

2006

Steam Generation

- Increased boiler CYCLES from 10 to 25
- Engineered & installed dealkalizer system, resulting in annual savings of \$7,000
- Engineered & installed dedicated polish softener on boiler feed water line resulting in higher efficiency of boiler operations (Natural Gas & water)
- Reduced consumption of hazardous amine chemistry by 50% annually

Electricity

Middle Tennessee Electrical Membership Cooperative conducted two week load study at request of StoneCrest. Analyzed data for trends of peak demand times.

Plant Operations perform adjustments to operating set points for HVAC equipment, when environmental conditions permit, to affect energy savings.

Indoor Air Quality

Bulky, metal frame "final" filters, used in large air handling units, replaced with plastic "slim line" type. Reduces use of metal and need for extra waste hauls by solid waste company. After routine filter changing during preventive maintenance waste compactor would be full.

- Implemented progressive regimen of bacteria control
- Goal of improving the quality of outside air for the environment of care
- Dual biocide strategy
- Drain pan biocide
- Air handler biocide

Results of Utility Management Stewardship

Adjusted Patient Days current month of December 2006 = 2767

APD for last year same month = 2456

Operating Expenses:	Current Month			
	This Year	LastYear	Variance	% Variance
Salary & Wages	-	-	-	0.00%
Contract Labor	-	-	-	0.00%
Employee Benefits	-	-	-	0.00%
Supplies	-	-	-	0.00%
Professional Fees	-	-	-	0.00%
Contract Services	365.	365.	-	0.00%
Repair & Maintenance	-	-	-	0.00%
Rents & Leases	-	-	-	0.00%
Utilities	72,638.	98,279.	(25,641.)	-26.09%
Postage & Transport	-	-	-	0.00%
Travel & Entertainment	-	-	-	0.00%
Dues & Subscriptions	-	-	-	0.00%
Other	-	-	-	0.00%
Total Expense	73,003.	98,644.	(25,641.)	-25.99%

StoneCrest is remarkable !

VII. H2E Goals

Please describe 3 key goals your facility plans to focus on in the year ahead. YOUR APPLICATION IS NOT EVALUATED ON THE BASIS OF YOUR FUTURE GOALS, but on the merits of your work in the past year. For more information, consult "How to Develop Your H2E Goals" on the H2E website located at <http://www.h2e-online.org/partners/samplegoals.htm>.

Goal 1: **Increase staff education and utilization of recycled supplies purchased through "Office Max" supply company.**

Supply Management Action Team incorporate "green review" in product selection process

Since communicating H2E Mission, Vision and Goals in November 2006, 24.85% of office supply dollars spent in January 2007 were on recycled items!!!!

Goal 2:

Promote use of Employee Suggestion Boxes for ideas to improve recycling processes as well as recycled supplies. Employee Advisory Group reviews suggestions during routinely scheduled meetings.

Goal 3:

Reduce quantity of non-hazardous waste in regulated medical waste stream. Audit conducted December 2005 and in 02/2007 as benchmark for 2007