# DIVISION OF HEALTH PLANNING AND RESOURCE DEVELOPMENT FEBRUARY 2015

CON REVIEW: HG-NIS-1214-021

RIVER OAKS, LLC D/B/A RIVER OAKS HOSPITAL

ESTABLISHMENT OF A DIAGNOSTIC CATHETERIZATION AND PCI SERVICES AND ACQUISITION OF RELATED EQUIPMENT

CAPITAL EXPENDITURE: \$900,000

LOCATION: FLOWOOD, RANKIN COUNTY, MISSISSIPPI

#### STAFF ANALYSIS

#### I. PROJECT SUMMARY

#### A. APPLICANT INFORMATION

River Oaks Hospital, LLC d/b/a River Oaks Hospital (now known as Merit Health- River Oaks) is located at 1030 River Oaks Drive, Flowood, Rankin County, Mississippi and its parent company is Community Health Systems, Inc. (CHS). The hospital is a short-term, licensed 160-bed, general medical/surgical facility owned by a limited liability company.

River Oaks is certified to participate in the Medicare and Medicaid programs and is listed in good standing with the Secretary of State's Office. Six officers and directors govern the facility. The applicant included a Certificate from the Secretary of State's Office dated May 13, 2013 indicating that River Oaks Hospital, LLC is a limited liability company incorporated in Mississippi and is in good standing with the State of Mississippi.

The occupancy rates, average lengths of stay (ALOS), and the Medicaid utilization rates for River Oaks Hospital, Flowood are as follows for years 2011, 2012, and 2013:

Fiscal Year	Occupancy Rate (%)	ALOS (DAYS)	Medicaid Utilization Rate
2011	<b>2011</b> 45.78		28.75
2012	37.58	3.59	8.58
2013	35.48	3.63	33.57

Source: Division of Health Facilities Licensure and Certification, MSDH

#### B. PROJECT DESCRIPTION

River Oaks Hospital, LLC d/b/a River Oaks Hospital (ROH), now known as Merit Health-River Oaks, proposes to become a new provider by establishing a diagnostic cardiac catheterization (cath.) service and also provide primary and elective percutaneous coronary intervention (PCI) services at the hospital. The applicant states that the proposed PCI services will not provide open heart surgery capabilities as opposed to other hospitals in Cardiac Catheterization/Open Heart Surgery Planning Area (CC/OHSPA) 5. The applicant states the proposed PCI service will be based on the exception listed in the FY 2015 Mississippi State Health Plan (MSHP).

Briefly, Rankin Cardiology Center, LLC (RCC) of Jackson received Certificate of Need (CON) Authority on June 28, 2001 under CON Review Number HG-NIS-0900-070 to establish a diagnostic cardiac catheterization service. The center listed above is shown in the *FY 2015 Mississippi State Health Plan* as providing **only** diagnostic cardiac catheterization services to Rankin Medical Center, Women's Hospital and River Oaks Hospital patients at the River Oaks Hospital Campus.

If the proposed project is approved, Rankin Cardiology Center, LLC will cease to provide diagnostic cardiac catheterization service and surrender its CON at the same time the proposed project is CON approved. The applicant asserts that ROH has one diagnostic cath. lab as well as one special procedures operating room. The applicant plans to purchase the following non-fixed equipment: a hemodynamic monitoring equipment, and imaging equipment. River Oaks Hospital indicates that the existing lab and special procedures room referenced above will be equipped to perform diagnostic caths and PCIs.

The total proposed project cost is \$900,000. Since River Oaks Hospital, LLC, Jackson was approved through a Determination of Reviewability ruling on July 10, 2012 to renovate two operating rooms at a cost of \$1,943,550; the proposed project will not involve any new construction or renovation or other expenses, except for the cost of non-fixed equipment. The applicant does not anticipate renovating the existing facility or plans for the provision of radiation therapy services.

The applicant includes a capital expenditure summary, a three-year projected operating statement, and un-audited financial statements ending 2014. As a result of this project, the applicant projects that 5.0 full-time equivalents (FTEs) will be required for the proposed project at a cost of \$256,560.

The applicant received site approval for the proposed facility from the Mississippi State Department of Health, Division of Licensure and Certification. To fund the project, River Oaks Hospital, LLC will use cash reserves in the amount of \$900,000. Upon CON approval, the applicant

anticipates that the capital expenditure will be obligated within three months of the final CON approval and the proposed project to be complete within three to six months of obligation of the capital expenditure.

#### II. TYPE OF REVIEW REQUIRED

The Mississippi State Department of Health reviews applications for the construction, development and relocation of a healthcare facility or portion thereof, or major medical equipment involving a capital expenditure in excess of \$2,000,000, establishment of Cardiac Catheterization Services and Open-Heart Surgery Services and the Acquisition or Otherwise Control of Cardiac Catheterization Equipment and/or the Offering of Cardiac Catheterization Services under the applicable statutory requirements of Sections 41-7-173, 41-7-191 (1)(d)(ii), 41-7-193 and 41-7-195, Mississippi Code of 1972, as amended, and duly adopted rules, procedures, plans, criteria, and standards of the Mississippi Department of Health.

In accordance with Section 41-7-197(2) of the Mississippi Code of 1972 Annotated, as amended, any affected person may request a public hearing on this project within 20 days of publication of the staff analysis. The opportunity to request a hearing expires March 12, 2015.

# III. CONFORMANCE WITH THE STATE PLAN AND OTHER ADOPTED CRITERIA AND STANDARDS

#### A. State Health Plan (SHP)

The FY 2015 Mississippi State Health Plan (MSHP) contains criteria and standards for Cardiac Catheterization Services and Open-Heart Surgery Services and the Acquisition or Otherwise Control of Cardiac Catheterization Equipment and/or the Offering of Cardiac Catheterization Services

The *Plan* gives guidelines for all health planning in Mississippi. The *Plan* states that: Mississippi's planning and health regulatory activities have the following purposes:

- To prevent unnecessary duplication of health resources;
- To provide cost containment:
- To improve the health of Mississippi residents; and
- To increase the accessibility, acceptability, continuity, and quality of health services.

This project is consistent with the above stated goals of health planning.

The cardiac catheterization narrative in Chapter 5 of the *MSHP* under 114 discusses cardiac catheterization and its two disciplines: cardiac catheterization and angiography. The various therapeutic interventions are listed in the *MSHP*. It also states that any facility performing diagnostic cardiac catheterizations <u>without</u> open-heart surgery capability must:

- maintain formal referral agreements with a nearby facility to provide emergency cardiac services, including open-heart surgery
- must also delineate the steps it will take to ensure that high-risk or unstable patients are not catheterized in the facility
- must document that more complex procedures are not performed in the facility such procedures include, but are not limited to:

percutaneous coronary interventions (PCI) transseptal puncture transthoracic left ventricular puncture myocardial biopsy.

The *MSHP* provides a numbered list of Joint Policy Statements under 115.01 for the criteria and standards referenced above relating to the proposed project. The narrative lists two goals and five standards MSDH adopted to further the goals.

The hospital is proposing to establish diagnostic cardiac catheterization (cath.) service and also provide primary and elective percutaneous coronary intervention (PCI) services at the hospital. River Oaks Hospital states that the proposed PCI services will <u>not</u> provide open-heart surgery capabilities as the other hospitals in CC/OHSPA 5.

Based on the population data for each county in the *FY 2015 MSHP*, staff determined that there are 15 counties in CC/OHSPA 5 and the population base is **793,137**. Thus, the population base standard for CC/OHSPA 5 exceeds the minimum **100,000** listed in the first standard shown.

**Under section 115.02 of the** *MSHP***, there are 11 items listed under the policy section.** The applicant states that River Oaks Hospital recognizes and <u>complies with the definitions and statements under **items 1 through 5**; however, in Policy Statement (PS) 5, the applicant asserts that River Oaks <u>will not provide</u> the proposed diagnostic cath and PCI services to neonates, infants or young children.</u>

# PS 6 - Present Utilization of Cardiac Catheterization Equipment/Services

As previously mentioned under the *Project Description* section, Rankin Cardiology Center, LLC is located in ROH and is equipped with a diagnostic catheterization lab with equipment controlled by and services provided through a joint venture between ROH and two other hospitals. Also, the purpose of the proposed project is to <u>transfer ownership and control of RCC's equipment to River Oaks Hospital</u>. In turn, the services provided through RCC will be terminated and the CON that was granted to RCC will be surrendered to the Department.

The applicant uses the *FY 2015 MSHP* as a reference to report that there are six existing hospitals in CC/OHSPA 5. The applicant states that if the proposed project is approved, the number of hospitals, which received CON approval for cardiac catheterization equipment/services within the service area, will remain unchanged.

The FY 2011 through FY 2015 MSHPs provide utilization of the service area from 2008 through 2013 and it ranges from 12,872 to 15,096. The applicant admits that RCC adult cardiac catheterizations at the facility declined each year after 2008 because PCI services weren't available and the group of cardiologists left the River Oaks Hospital. If the proposed project is approved, the applicant asserts that cardiologists from UMMC have agreed to provide coverage at River Oaks Hospital in addition to the coverage provided by other cardiologists, including other interventional cardiologists.

If cath and PCI services are established at the hospital, the implementation of the project will:

- Decrease travel time for many residents in CC/OHSPA 5,
- Patients will be stabilized at ROH instead of being transported to another hospital;
- Improve access to residents of Rankin County and 6 counties to the east of Rankin County;

# PS 7 - CON Application Analysis and PS 8 - Minimum CC/OHSPA Population

To comply with PS 7 and PS 8, the applicant provided market share information in the CON application for the acquisition or otherwise control of cardiac catheterization equipment and/or the offering of cardiac catheterization services.

Also, the applicant states that ROH meets the minimum population base of 100,000 as required for applications proposing to establish cardiac catheterization services. To determine the need for services, the applicant indicates that the *FY 2015 MSHP* reports a total population of **793,137 for 2020 in CC/OHSPA 5.** 

As a part of PS 8, ROH patient origin studies indicate that the hospital treats patients throughout the services area; however, the majority of ROH's patients originate from three counties: Madison, Rankin, and Hinds Counties; however, residents mainly originate from Rankin County, MS. The applicant reports the projected population for the above three counties as 534,414, with 166,706 inhabitants in Rankin County. Based on ROH's assessment, the three counties are listed as apart of the top six, largest counties in the MS. The hospital asserts that Rankin County's projected population is steadily increasing. For 2015, 2020, and 2025 the projected population is 155,470, 166,706, and 175,248.

The application includes a 12-month (11/01/2013-10/31/2014) chart to report patient origin data for ROH as it relates to CC/OHSPA 5. Based on the information, the counties and percentages are shown below:

County	Inpatient Origin	Percentage of Total	Cumulative Percentage of Total
Rankin	1,766	40.01%	40.10%
Hinds	927	21.00%	61.10%
Madison	418	9.50%	70.60%
Scott	184	4.20%	74.80%
Leake	135	3.10%	80.90%
Simpson	136	3.10%	77.90%
Copiah	101	2.30%	83.20%
Attala	73	1.70%	86.60%
Yazoo	68	1.50%	88.20%
Warren	76	1.70%	85.00%
Holmes	43	1.00%	89.10%
Smith	18	0.40%	89.50%
Claiborne	7	0.20%	89.70%
Sharkey	2	0.00%	89.70%
All Others	452	10.30%	100.00%
Total Percentage	4,406	100.01%	

NOTE: Inpatients exclude newborns

The patient origin data shown in the table above reflect ROH and RCC. Since RCC is located within ROH, ROH states that RCC's patient origin for the diagnostic cath program and ROH's inpatient origin are about the same. The applicant also determined that Hinds, Rankin, and Madison counties account for 70 percent of all RCC patients. Thus, ROH believes CC/OHSPA 5 is a reasonable service area for ROH's proposed project.

For CC/OHSPA 5, the application provides tables, which report projected populations from 2015 through 2025; the project population for age 55 and older. The table shows that the elderly population for ages 55 and older will increase from 39,595 to 50,567 for Rankin County and for Madison County, the population will increase from 26,374 to 35,292, respectively. The applicant asserts that these counties are included within the top five counties in MS with ages of 55 and over.

River Oaks affirms that persons aged 55 and older utilize cardiac cath services at a higher rate than the population under age 55. Based on ROH's assessment, two-thirds (66.7%) of RCC's patients were diagnostic cath patients aged 55 and over.

#### PS 9 - Minimum Caseload

If an applicant is proposing to provide adult diagnostic cardiac catheterization service, the *FY 2015 MSHP* states that an applicant must be able to project a caseload of at least 300 diagnostic catheterizations per year. If an applicant is proposing to offer adult therapeutic cardiac catheterization services, the applicant must project a caseload of at least 450 catheterizations, diagnostic and therapeutic, per year.

Since River Oaks Hospital is proposing to establish adult diagnostic cardiac catheterization (cath.) service and also provide therapeutic cardiac catheterization through (PCI) services, the applicant projects that the hospital will exceed 450 catheterizations, diagnostic and therapeutic, per year. The applicant states that ROH used the following to determine the facility's projections: ROH's physician network, cardiologists, intervention cardiologists, patients admitted into the hospital through the emergency room with cardiac issues, the support of UMMC interventional cardiologists, current market share data, and the area population.

The number of cardiac caths performed in CC/OHSPA 5 for five years is presented under SHP Criterion 3 - Impact on Existing Providers.

#### PS 10 - Residence of Medical Staff

River Oaks Hospital affirms that the facility shall perform cardiac catheterizations under the control of and by personnel living and working within the specific hospital area. The applicant states that ROH will not use traveling teams to provide services.

# PS 11 - Hospital-Based

River Oaks Hospital asserts that the facility that the proposed diagnostic catheterizations and PCI services will be located in an acute care hospital.

The FY 2015 Mississippi State Health Plan (MSHP or SHP) does contain criteria and standards for Certificate of Need Criteria and Standards for the Acquisition or Otherwise Control of <u>Diagnostic</u> Cardiac Catheterization Equipment and/or the Offering Of <u>Diagnostic</u> Cardiac Catheterization Services.

#### SHP Criterion 1 - Need

River Oaks Hospital documented a minimum population base of 100,000 in the CC/OHSPA 5 regarding the proposed diagnostic cardiac catheterization equipment/service to be located in the service area listed above. The analysis discusses population projections above under Policy Statement 7 and 8. The Division of Health Planning and Resource Development population projection for CC/OHSPA 5 is 793,137 based on the 2020 population projection listed in the *FY 2015 MSHP*.

#### **SHP Criterion 2 - Minimum Procedures**

The criterion states that if an applicant establishes diagnostic cardiac catheterization services only shall demonstrate that the proposed equipment/service utilization will be a minimum of 300 diagnostic cardiac catheterizations per year by its third year of operation.

The applicant is proposing to establish diagnostic cardiac catheterization (cath.) service and also provide primary and elective percutaneous coronary intervention (PCI) services at River Oaks Hospital.

Based on data and factors analyzed by ROH and discussed in *Policy Statement 9*, the applicant projects the following diagnostic cardiac catheterizations in CC/OHSPA 5 for years 1, 2, and 3 are 233, 470, and 632, respectively.

#### SHP Criterion 3 - Impact on Existing Providers

The applicant proposing to acquire or otherwise control diagnostic cardiac catheterization equipment and/or offer diagnostic cardiac catheterization services must document that each existing unit, which is (a) in the CC/OHSPA and (b) within forty-five (45) miles of the applicant, has been utilized for a minimum of 450 procedures (both diagnostic and therapeutic) per year for the two most recent years.

The table below from the *FY 2015 MSHP* shows the number of procedures reported by each facility in CC/OHSPA 5. An updated table is also shown below to display data for FY 2013. The applicant asserts that ROH meets the requirement listed under this criterion.

River Oaks Hospital states that the utilization for RCC is due to: the hospital not offering PCI services, a lack of referrals by physicians, and a deficiency in scheduling by cardiologist. The hospital projects that with PCI services, with the hospital's diagnostic cath, and ROH's projections will increase the number of diagnostic caths performed at the facility.

Table 5-10
Cardiac Catheterizations by Facility and Type
by Cardiac Catheterization/Open Heart Planning Area (CC/OHSPA)
FY 2010, FY 2011, FY 2012, and FY 2013

Facility	County	Total Adult Procedures		Total Pediatric Procedures		Total PTCA Procedures		# Labs
		2010	2011	2010	2011	2010	2011	2011
CC/OHSPA 5		15,918	17,193	1,036	924	2,575	2,756	24
Central Mississippi Medical Center	Hinds	630	1,200	0	0	221	250	3
Mississippi Baptist Medical Center	Hinds	3,627	4,203	0	0	958	1,039	5
Rankin Cardiology Center*•	Rankin	8	22	0	0	0	0	1
River Region Health System	Warren	1,102	1,157	0	0	285	283	4
St. Dominic-Jackson Memorial Hospital	Hinds	2,939	2,743	0	0	1,079	1,153	6
University Hospital & Health Systems	Hinds	7,612	7,868	1,036	924	32	31	5

Facility	County	Total Adult Procedures		Total Pediatric Procedures		Total PTCA Procedures		# Labs
		2011	2012	2011	2012	2011	2012	2012
CC/OHSPA 5		17,193	16,434	924	570	2,756	2,944	23
Central Mississippi Medical Center	Hinds	1,200	1,180	0	0	250	289	3
Mississippi Baptist Medical Center	Hinds	4,203	4,326	0	0	1,039	1,143	5
Rankin Cardiology Center*•	Rankin	22	120	0	0	0	0	1
River Region Health System	Warren	1,157	1,230	0	0	283	314	4
St. Dominic-Jackson Memorial Hospital	Hinds	2,743	6,661	0	0	1,153	1,163	6
University Hospital & Health Systems	Hinds	7,868	2,917	924	570	31	35	4

Facility	County	Total Adult Procedures		Total Pediatric Procedures		Total PTCA Procedures		# Labs
		2012	2013	2012	2013	2012	2013	2013
CC/OHSPA 5		16,434	15,096	570	1,681	2,944	2,289	22
Central Mississippi Medical Center	Hinds	1,180	691	0	0	289	172	3
Mississippi Baptist Medical Center	Hinds	4,326	3,757	0	0	1,143	939	5
Rankin Cardiology Center*•	Rankin	120	119	0	0	0	0	1
River Region Health System	Warren	1,230	1,536	0	0	314	241	3
St. Dominic-Jackson Memorial Hospital	Hinds	6,661	5,931	0	0	1,163	877	7
University Hospital & Health Systems	Hinds	2,917	3,062	570	1681	35	60	3

Sources: FY 2013 MSHP, FY 2014 MSHP, FY 2015 MSHP

<sup>\*</sup>Diagnostic Catheterizations only

<sup>•</sup>Provides Diagnostic Cardiac Catheterizations for Rankin Medical Center, Women's Hospital, and River Oaks Hospital patients, at River Oaks Hospital Campus

The applicant provided several tables and a figure projecting age group/population growth and cardiac cath rates. Based on methodologies listed in the application to project the impact of the proposed comprehensive cardiac cath program by the hospital, the data reported increases in cardiac caths for several years. The applicant states that the volume among existing facilities in CC/OHSPA 5 increased from 12,872 to 15,096 for 2008 through 2013 (see table below).

		2008 Market		2013 Market
Facility	2008	Share %	2013	Share %
Central MS Medical Center	500	3.9	691	4.6
Baptist Medical Center	4,135	32.1	3,757	24.9
Rankin Cardiology	102	0.8	119	0.8
River Region Health System	2,415	18.8	1,536	10.2
St. Dominic-Jackson Memorial Hospital	2,288	17.8	5,931	39.3
University Hospitals and Health System -UMMC	3,432	26.7	3,062	20.3
TOTAL	12,872	100.1	15,096	100.1

The applicant states that UMMC patients will be seen at ROH, the overall number of diagnostic cath CONs will not change and will not cause a negative impact on CC/OHSPA 5. As a note, the hospital is not owned and/or operated by the state or its agencies.

#### SHP Criterion 4 - Staffing Standards

The applicant affirms that ROH has or can obtain the ability to administer the proposed services, provide sufficiently trained and experienced professional staff, and evaluate the performance of the programs. The Mississippi State Department of Health staff shall use guidelines presented in *Optimal Resources for Examination of the Heart and Lungs: Cardiac Catheterization and Radiographic Facilities*, published under the auspices of the Inter-Society Commission for Heart Disease Resources, as resource materials when reviewing these items in an application.

#### SHP Criterion 5 - Recording and Maintenance of Data

River Oaks Hospital affirms that the facility will provide, as required under licensure standards, written assurance that they will record and maintain utilization data for diagnostic cardiac catheterization procedures (e.g., morbidity data, number of diagnostic cardiac catheterization procedures performed, and mortality data, all reported by race, sex, and payor status) and make such data available to the Mississippi State Department of Health annually.

#### SHP Criterion 6 -Referral Agreement

Regarding the proposed project, establishment of diagnostic cardiac catheterization services only, the applicant documents that a formal referral agreement with a facility for the provision of emergency cardiac

services (including open-heart surgery) will be in place and operational at the time of the inception of cardiac catheterization services.

#### SHP Criterion 7 - Patient Selection

River Oaks Hospital proposing to provide diagnostic cardiac catheterization services asserts that the facility will (a) delineate the steps which will be taken to insure that high-risk or unstable patients are not catheterized in the facility, and (b) certify that therapeutic cardiac catheterization services will not be performed in the facility unless and until the applicant has received CON approval to provide therapeutic cardiac catheterization services.

# SHP Criterion 8 - Regulatory Approval

Before utilizing or providing the equipment or service, River Oaks Hospital is proposing to provide diagnostic cardiac catheterization equipment or service and is seeking CON approval from the Mississippi State Department of Health.

The FY 2015 Mississippi State Health Plan (MSHP) does contain criteria and standards for Certificate of Need Criteria and Standards for the Acquisition or Otherwise Control of Therapeutic Cardiac Catheterization Equipment and/or the Offering Of Therapeutic Cardiac Catheterization Services.

#### **SHP Criterion 1 - Need**

River Oaks Hospital documented a minimum population base of 100,000 in the CC/OHSPA, where the proposed therapeutic cardiac catheterization equipment/service is to be located. The analysis discusses population projections above under Policy Statement 7 and 8. The Division of Health Planning and Resource Development population projection for CC/OHSPA 5 is 793,137 based on the 2020 population projection listed in the *FY 2015 MSHP*.

# **SHP Criterion 2 - Minimum Procedures**

An applicant proposing the establishment of therapeutic cardiac catheterization services shall demonstrate that the proposed equipment/service utilization will be a minimum of 450 cardiac catheterizations, both diagnostic and therapeutic, per year by its third year of operation and a minimum of 100 total PCIs.

River Oaks Hospital discusses the requirement listed above and provides documentation to show ROH will meet the utilization required above in SHP Policy Statement 9 - Minimum Caseload. The applicant asserts that ROH projects the following for 2016, 2017, and 2018 relating to CC/OHSPA 5:

- □ 175, 353, and 474 diagnostic cardiac catheterizations.
- □ 58, 118, and 158 total PCIs Elective and Primary (i.e. emergency)
- □ 233, 470, and 632 total adult procedures

# SHP Criterion 3 - Impact on Existing Providers

An applicant proposing to acquire or otherwise control therapeutic cardiac catheterization equipment and/or offer therapeutic cardiac catheterization services shall document that each existing unit which is (a) in the CC/OHSPA and (b) within 45 miles of the applicant, has been utilized for a minimum of 450 procedures (both diagnostic and therapeutic) per year for the two most recent years as reflected in data supplied to and/or verified by the Mississippi State Department of Health.

The applicant discusses the impact under SHP Criterion 3 - Impact on Existing Providers listed above. The hospital states that the number of adult cardiac caths at each existing facility/provider should increase based on the projected increase in the number of adult caths.

As stated previously, the hospital is not owned and/or operated by the state or its agencies.

# SHP Criterion 4 - Staffing Standards

The applicant affirms that ROH has or can obtain, the ability to administer the proposed services, provide sufficiently trained and experienced professional staff, and evaluate the performance of the programs. Mississippi State Department of Health staff shall use guidelines presented in *Optimal Resources for Examination of the Heart and Lungs: Cardiac Catheterization and Radiographic Facilities*, published under the auspices of the Inter-Society Commission for Heart Disease Resources, as resource materials when reviewing these items in an application.

#### SHP Criterion 5 - Staff Residency

The applicant asserts that medical staff performing therapeutic cardiac catheterization procedures will be onsite within thirty (30) minutes.

#### SHP Criterion 6 - Recording and Maintenance of Data

River Oaks asserts that the facility shall provide, as required under licensure standards, written assurance that they will record and maintain separate utilization data for diagnostic and therapeutic cardiac catheterization procedures (e.g., morbidity data, number of diagnostic and therapeutic cardiac catheterization procedures performed and mortality data, all reported by race, sex and payor status) and make that data available to the Mississippi State Department of Health annually.

# SHP Criterion 7 - Open-Heart Surgery

The criterion states that an applicant proposing the establishment of therapeutic cardiac catheterization services shall document that open-heart surgery services are available or will be available on-site where the proposed therapeutic cardiac catheterization services are to be offered before such procedures are performed. However, qualified applicants may submit an application to perform percutaneous coronary intervention (PCI) services in a hospital without on-site cardiac surgery.

To qualify, River Oaks Hospital asserts that the facility will meet the current American College of Cardiology (ACCF), American Heart Association Task Force on Practice Guidelines (AHA) and the Society of Cardiovascular Angiography and Interventions (SCAI)-ACCF/AHA/SCAI Guideline for Percutaneous Coronary Intervention and the following:

- a. River Oaks Hospital assert the facility will comply with performing a minimum of 50 total PCIs per year/per primary operator (physicians), including 12 primary PCIs per year/per facility.
- b. The applicant states that qualified operators will have a lifetime experience of greater than 150 total PCIs with acceptable outcomes as primary operator after completing fellowship or have completed an Interventional Cardiology fellowship.
- c. The facility asserts that it will use a minimum of less than 120 minutes to accomplish transfer from the onset of PCI complications to cardiopulmonary bypass. The facility's program affirms that ROH will have a formal emergency transfer agreement with a hospital providing open heart surgery. While transporting a patient to the receiving hospital, ROH affirms that it will ensure the availability of an intra-aortic balloon pump (IABP). The application includes a transfer agreement with UMMC.
- d. River Oaks Hospital provides projections to show that the facility will annually perform a minimum of 100 total PCIs by the third year (see below):
  - 58, 118, and 158 total PCIs
     Elective and Primary (i.e. emergency)
- e. The applicant affirms that the proposed ROH program will participate in the STEMI ("ST"-Segment Elevation Myocardial Infarction) Network.
- f. The applicant asserts that ROH will perform primary and elective PCI procedures.

# SHP Criterion 8 - Regulatory Approval

Before utilizing or providing the equipment or service, River Oaks Hospital is proposing to provide cardiac catheterization equipment or service and is seeking CON approval by the Mississippi State Department of Health.

# SHP Criterion 9 - Provision of Diagnostic Catheterization Services

As stated in the Project Description above, Rankin Cardiology Center, LLC (RCC) of Jackson received Certificate of Need (CON) Authority to establish a diagnostic cardiac catheterization service. The center only provides diagnostic cardiac catheterization services to Rankin Medical Center, Women's Hospital and River Oaks Hospital patients at the River Oaks Hospital Campus. Upon approval, RCC will cease to provide diagnostic cardiac catheterization service and surrender its CON at the same time the proposed project is CON approved.

Since River Oaks Hospital is not an existing provider of diagnostic cardiac cath services, ROH does not have data to demonstrate that a diagnostic cardiac catheterization unit has been utilized for a minimum of 300 procedures per year for the two most recent years. As a note, RCC did not perform as well as projected regarding the service the center offered (see RCC's utilization shown in the table under SHP Criterion 3 - Impact on Existing Providers).

#### Physician Referrals/Affidavits

Regarding Table I below, ROH states in the application that the number of cardiac cath procedures at ROH will originate from three sources: persons who are admitted to ROH in the emergency department; referrals from ROH's network of active medical staff, cardiologists and interventional cardiologists, and increase in cardiac patients and caths.

For the third year of operation, River Oaks Hospital affirms that the proposed cardiac cath laboratory will perform the projected numbers 2016 as shown in Table I below:

# Table I River Oaks Hospital Projected Adult Cardiac Cath Procedures for Years 1 - 3

Туре	2016	2017	2018
Total Adult Procedures	233	470	632
Diagnostic Cardiac Catheterizations	175	353	474
Total PCIs *	58	118	158
Annual Projected Primary PCIs •	12	12	12

<sup>\*</sup>Elective and Primary are included in the total.

Under number 2 of the Application for a Certificate of Need, the Substantive Review form, the applicant states the ROH is proposing diagnostic cardiac catheterization (cath.) service and will also provide primary and elective percutaneous coronary intervention (PCI) services.

The applicant indicates that ROH is not an existing provider of the services and submitted utilization projections for the services based on physician referrals. The physician affidavits of commitment from the referring physicians include the actual number of referrals from the prior year(s), the projected number of referrals and/or the number of procedures or treatments to be rendered (see Table II below).

Table II
River Oaks Projected Utilization
Based on Physician Referrals/Affidavits

_	Diagnostic Catheterizations PCIs *		Primary PCIs +	Primary PCIs +	PCIs Performed	
2013	2014	2013	2014	2013	2014	Greather than 150 as the Primary Operator
<u>1,181</u>	<u>1,261</u>	853	798	84	<u>96</u>	<u>1,200</u>

**NOTE:** ROH states that the data is based on 11 months, except for one physician's information.

The applicant indicates that the physician referrals/affidavits in Table II support the 2016 numbers projected for the third year of operation in Table I.

<sup>•</sup>Minimum of 12 Primary PCIs projected to be performed annually by interventional cardiologists at ROH.

<sup>\*</sup>Elective and Primary are included in the total.

<sup>•</sup>Of the total PCIs performed, a minimum of 12 Primary PCIs were performed by the licensed, practicing physicians.

# B. General Review (GR) Criteria

Chapter 8 of the *Mississippi Certificate of Need Review Manual, 2011 Revision,* addresses general criteria by which all CON applications are reviewed.

# **GR Criterion 1 - State Health Plan (SHP)**

The State Health Plan contains criteria and standards for the following regarding the proposed ROH project within Rankin County: establishment of a diagnostic catheterization and PCI services and acquisition of related equipment.

Staff contends that the establishment of the services listed above and acquisition of related equipment in Rankin County does foster the health planning purpose of increasing the accessibility, acceptability, continuity, and quality of health services.

#### **GR Criterion 2 - Long Range Plan**

The applicant states that ROH initially conversed about offering PCI services on a previous occasion; however, determined it was not going to be feasible to do so because of the prior limitation requiring open heart surgery.

River Oaks Hospital asserts that proposing to operate and offer diagnostic cath and PCI services will allow the hospital to accomplish its long range plan of providing a full complement of acute services.

Based on the application, ROH asserts that the proposed project is consistent with ROH's long-range goals/objectives. The proposed project seeks to establish diagnostic catheterization and PCI services and acquire related equipment.

#### **GR Criterion 3 - Availability of Alternatives**

Rankin Cardiology Center, LLC of Jackson was CON approved to establish a diagnostic cardiac catheterization service at the River Oaks Campus for three facilities. The applicant indicated that ROH considered continuing to offer cath services only through RCC; however, this option would persist in posing a problem for the patients and physicians. For example, if patients need PCI services during a cath procedure, patients will have to be transferred.

By providing a full complement of services to appropriately screened patients, the applicant believes this will:

- Permit ROH to meet its goals and the needs of its physicians and patients; and
- Assist patients presented to ROH's emergency department timely access to PCI services

The proposed project does not require ROH to modernize the existing facility or new construction. Again, a full complement of services at ROH will allow patients to receive all care at one location. Based on the *FY 2015 MSHP*, staff determined that the following facilities provide Cardiac Catheterizations in CC/OHSPA 5:

# Facility/County

Central Mississippi Medical Center	Hinds
Mississippi Baptist Medical Center	Hinds
Rankin Cardiology Center*•	Rankin
River Region Health System	Warren
St. Dominic-Jackson Memorial Hospital	Hinds
University Hospital & Health Systems	Hinds

<sup>\*•</sup>As previously mentioned, RCC is the only center that provides diagnostic catheterizations only for Rankin Medical Center, Women's Hospital, and River Oaks Hospital patients, at River Oaks Hospital Campus.

The applicant asserts that if the proposed project is approved, ROH will enhance services already provided at the hospital and believes the project will improve patient's continuity of care. Since PCI services without open heart backup was approved by the American Health Association and practice guidelines and adopted/approved to be listed in the FY 2015 MSHP, ROH believes that the expansion at the facility will increase access to both diagnostic cath and PCI services to all Mississippians especially to those who reside in CC/OHSPA 5.

#### **GR Criterion 4 - Economic Viability**

The applicant provided a three-year projected operating statement. The total operating revenue over a projected three year period, any income increases or decreases or net losses are shown in Attachment 1 of this document.

Based on the applicant, there are no hospitals in Mississippi that offer PCI services without open-heart surgery backup. To determine the projected charges for the proposed project, ROH asserts that it analyzed ROH Medicare and Medicaid (payor mix) reimbursement levels and inquiry of other hospital's program specifics. Expected reimbursements and supply costs, human resource needs, and insight from other hospitals were used to determine profitability of the project.

As stated previously, there are no hospitals in Mississippi that offer PCI services without open-heart surgery backup. Thus, ROH's projected levels of utilization are based on several sources the applicant explored (see application). Their results determined that ROHs projections are reasonable, represent the current utilization and forecast what will be expected in CC/OHSPA 5. The applicant asserts that Community Health Systems, Inc. will support the service in case the project fails.

The applicant states that the proposed project will not have an impact on the overall cost of healthcare nor gross revenues or Medicaid expenses per procedure.

The proposed project does not have a capital expenditure that exceeds \$2,000,000; however, since Community Health Systems, Inc. is ROH's parent organization, the applicant provided CHS's consolidated financial documents and statements for September 30, 2014, September 30, 2013, and provided figures for December 31, 2013. Based on the financial documents, the proposed project appears to be economically viable.

#### **GR Criterion 5 - Need for the Project**

The applicant affirms that the population in Flowood, Rankin County, Mississippi and GHSA 5 residents (including low income persons, racial and ethnic minorities, women, handicapped persons and other underserved groups, and the elderly) will have access to ROH proposing to establish a diagnostic cardiac catheterization (cath.) service and also providing primary and elective percutaneous coronary intervention (PCI) services at the hospital.

As previously mentioned, the proposed project is <u>not</u> an establishment of a new facility or relocation of an existing facility. In CC/OHSPA 5, the applicant affirms that there are four hospitals located less than 4 to 6 miles from ROH, which have an existing PCI program <u>with</u> surgical backup. River Oaks Hospital asserts that neither the facility nor other hospitals in the facility's defined service area offer PCI services with<u>out</u> open heart surgery. Thus, the applicant asserts that there are no existing facilities providing similar services. The applicant states ROH does not have any current utilization for the proposed service; however, the facility provided utilization projections based on the following sources:

- Population growth and aging
- Current market share for River Oaks Health System

- Physician comments and support
- Percentage of patients presented to RCC/the hospital with cardiac problems

The narrative and tables under the first heading for SHP Criterion 3 - Impact on Existing Providers discusses three methodologies used and the results from the methodologies.

The applicant submitted about 37 letters of endorsement from community officials and individuals expressing their reaction to the proposal. The Department also received two comment letters opposing the proposed project.

#### **GR Criterion 6- Accessibility**

River Oaks Hospital affirms that the proposed facility will be in compliance with federal and state regulations in regard to serving all patients in CC/OHSPA 5 regardless of race, creed, sex, or ability to pay.

The applicant projects that 2% of the patients served at ROH will be medically indigent and charity care patients. As a note, the hospital doesn't separate the numbers for each of those categories. The applicant indicates that the expected payor mix by type payor will be as follows: Medicaid, 14%, Medicare, 28%, Commercial, 48%, Self Pay, 4%, Charity care, 2%; and other, 3%.

If the proposed project is approved, ROH states patients will be able to access a full range of cardiac services, inclusive of cath and PCI services at one location. The application includes ROH's admission policy and indicates that the facility in Flowood is accessible to CC/OHSPA 5 residents 24 hours per day. The applicant asserts that operational hours for cath and PCI services will be 9 am to 5 pm, five days per week; however, primary or emergency PCI services will be available after traditional hours.

#### **GR Criterion 7- Information Requirement**

The applicant affirms that ROH will record and maintain the information required by this criterion and shall make the data available to the Mississippi State Department of Health within fifteen (15) business days of request.

# **GR Criterion 8 - Relationship to Existing Health Care System**

The applicant indicates that hospitals in CC/OHSPA 5 provide Cath and PCI services with open-heart surgery capabilities; however, the proposed project will establish diagnostic catheterization and PCI services along with acquiring related equipment. For a list of facilities that provide Cardiac Catheterizations in CC/OHSPA 5, see GR Criterion 3.

Although the proposed cath and PCI services would be comparable to other facilities in the area, ROH believes that hospitals in the area should continue to perform more complicated procedures relating to their larger

open-heart surgery program. If the proposed project is approved, ROH will be the first hospital that will provide cath and PCI services without open-heart backup and trusts that the program will be a model of how these services can safely be offered at other facilities without open heart programs.

River Oaks affirms that implementation of the proposed project will affect existing health services in the region or statewide in some of the following ways:

- Improve continuity and quality a patient's hospital choice relating to their care encourages a patient-physician relationship;
- Increase in accessibility hospitals with larger programs will be able to accommodate more complicated procedures while ROH handles PCIs;
- Improve Health in MS expansion of PCI service without openheart backup will improve the health of patients in state encountering significant heart disease;
- Access Point patients with heart issues will be able to utilize another entry point to cardiac services;
- Improve Time in Emergency Room PCI services at ROH will improve will result in better outcomes; and
- Minimize Transport patients would be able to receive services based on where they choose and won't have to be moved to another provider.

If the proposed project is not approved, the applicant believes this will cause a negative impact on the patients who are presented to the ER department with cardiac issues, patients who would like to have their healthcare provided by ROH and physicians who want their patients care provided by ROH. The applicant states that ROH has an emergency transfer agreement with University of Mississippi Medical Center.

#### **GR Criterion 9 - Availability of Resources**

The applicant asserts that ROH demonstrated a successful staffing history before it closed and asserts that sufficient personnel will be available to ensure proper implementation of this project. Also, ROH

states that current staff is able to provide cath services and assist in more invasive hospital procedures. Through ROH affiliation with UMMC, it will

allow its staff to learn from UMMC interventional cardiologist and nurses. River Oaks Hospital affirms that the facility will continue to utilize services provided by UMMC fellows in interventional cardiology to provide cardiac services at the facility. The applicant projects that 5.0, full-time

equivalents (FTEs) will be required for the proposed project at a cost of \$256,560.

# **GR Criterion 10 - Relationship to Ancillary or Support Services**

The applicant asserts ROH currently provides ancillary and support services and there will be no increase in the utilization of ancillary and support services as a result of this project.

# **GR Criterion 11- Health Professional Training Programs**

The applicant states UMMC provides cardiac services at River Oaks and ROH anticipates that UMMC students will assist in providing cardiac services at the facility. River Oaks Hospital asserts that the facility currently works with other health training programs in the area to provide clinical and hospital experience for students. Thus, staff believes it appears that the proposed relocation of ROH will not have an adverse effect upon the health professional training programs in CC/OHSPA 5.

#### **GR Criterion 12- Access by Health Professional Schools**

The applicant asserts it currently works with health professional training programs in the area (See GR 11).

#### **GR Criterion 14 - Construction Projects**

The applicant contends no new construction or renovation is associated with the proposed project; however, the Department determined that River Oaks, LLC was approved to renovate two operating rooms at a cost of \$1,943,550.

#### **GR Criterion 15 – Competing Applications**

Since there are no competing applications, no additional information is required to adhere to this criterion.

#### **GR Criterion 16 - Quality of Care**

By the implementation of the proposed project, the applicant believes that the project will improve and enhance the delivery of care by increasing services and providing a more thorough cardiac program. River Oaks Hospital participates in the Medicare and Medicaid programs and is accredited by The Joint Commission.

#### IV. FINANCIAL FEASIBILITY

# A. Capital Expenditure Summary

Cost Item	Estimated Cost	% of the Total		
Construction Cost -New	\$0	0.00%		
Construction Cost-Renovation	0	0.00%		
Capital Improvements, i.e. (minor painting and repairs, refurbishing)	0	0.00%		
Total Fixed Equipment Cost	0	0.00%		
Total Non-Fixed Equipment Cost	900,000	100.00%		
Land Cost	0	0.00%		
Site Preparation Cost	0	0.00%		
Fees (Architectural and Consultant Fees)	0	0.00%		
Fees (Legal and Accounting)	0	0.00%		
Contingency Reserve	0	0.00%		
Capitalized Interest	0	0.00%		
Other Cost (Consulting)	0	0.00%		
Other Cost	-	0.00%		
TOTAL PROPOSED CAPITAL EXPENDITURE	\$900,000	100%		

As stated previously, no new construction or renovation is associated with the proposed project.

# B. Method of Financing

To fund the project, River Oaks Hospital, LLC will use cash reserves in the amount of \$900,000.

# C. Effects on Operating Costs

The applicant's projections of gross revenues for the first, second, and third year of operation, expenses, and net income are shown in Attachment 1. Utilization, cost, and charges are also included in the applicant's Three-Year Projected Operating Statement (See Attachment 1).

#### D. Cost to Medicaid/Medicare

Using Table 4C in the financial section of the CON application, staff calculated the following based on the revenue source percentage projections ROH reported for each payor category:

River Oaks, LLC d/b/a River Oaks Hospital						
Payor	Utilization Percentage	First Year Revenue				
Medicaid	15.00%	\$111,120,851.85				
Medicare	26.00%	\$192,609,476.54				
Self Pay	3.00%	\$22,224,170.37				
Commercial	50.00%	\$370,402,839.50				
Charity	2.00%	\$14,816,113.58				
Other	3.00%	\$22,224,170.37				
Total	100%	<u>\$740,805,679.00</u>				

ROH states that bad debt are grouped into deductions from revenue. Charity care will between 1.75 % and 2.50% based on historical data. Medically indigent care is approximately 2% of gross patient revenues, respectively.

#### V. RECOMMENDATION OF OTHER AFFECTED AGENCIES

The Division of Medicaid was provided a copy of this application and the Department received written comments from the agency. The Division states that effective September 1, 2012, it changed the methodology by which it reimburses <u>outpatient services</u> so that the cost incurred, subsequent to that date, will no longer affect outpatient payments.

In addition, effective October 1, 2012, the Division changed the methodology by which it reimburses <u>inpatient services</u> so that the cost incurred, subsequent to that date, will only affect cost outlier payments. Based on the Division of Medicaid's analysis, the estimated increase in cost outlier payments resulting from this project cannot be determined at this time. The Division of Medicaid opposes this project.

#### VI. CONCLUSION AND RECOMMENDATION

This project is in substantial compliance with the overall objectives of the 2015 Mississippi State Health Plan; Chapter 8 of the Mississippi Certificate of Need Review Manual, 2011 Revision; and all adopted rules, procedures, and plans of the Mississippi Department of Health.

Consequently, the Division of Health Planning and Resource Development recommends approval of this application submitted by River Oaks Hospital, LLC dba River Oaks Hospital for the establishment of a diagnostic catheterization and PCI services and acquisition of related equipment.

# **ATTACHMENT 1**

# River Oaks, LLC d/b/a River Oaks Hospital Establishment of a Diagnostic Catheterization and PCI Services and Acquisition of Related Equipment

# **Three-Year Projected Operating Statement (With Project)**

	Proposed Year 1	Proposed Year 2	Proposed Year 3
Revenue			
Inpatient Care Revenue	\$ 297,277,628	\$ 309,168,733	\$ 318,443,795
Outpatient Care Revenue	 443,528,051	468,044,766	486,435,664
Gross Patient Care Revenue	\$ 740,805,679	\$ 777,213,499	\$ 804,879,459
Charity Care	\$ 13,054,311	\$ 13,621,924	\$ 14,035,541
Deductions from Revenue	 615,331,879	645,853,206	669,040,951
Net Patient Care Revenue *	\$ 112,419,489	\$ 117,738,369	\$ 121,802,966
Other Operating Revenue	\$ 1,457,391	\$ 1,457,391	\$ 1,457,391
Total Operating Revenue *	\$ 113,876,880	\$ 119,195,760	\$ 123,260,357
Operating Expense Salaries Benefits Supplies Services Lease Depreciation Interest Other	\$ 32,793,051 4,509,738 22,195,484 6,214,665 5,465,849 8,596,646 271,087 23,021,391	\$ 34,339,178 4,731,099 22,742,226 6,273,047 5,520,508 8,596,646 271,087 23,356,034	\$ 35,519,453 4,899,331 23,035,815 6,273,486 5,575,713 8,596,646 271,087 23,446,707
Total Operating Expense	\$ 103,067,912	\$ 105,829,824	\$ 107,618,238
Net Operating Income (Loss) *	\$ 10,808,968	\$ 13,365,937	\$ 15,642,119
Inpatient days	17,886	18,602	19,346
Outpatient visits	58,760	61,111	63,555
Procedures	847,562	881,692	917,103
Charge per outpatient day	\$ 7,548	\$ 7,659	\$ 7,654
Charge per inpatient day	\$ 16,621	\$ 16,621	\$ 16,461
Charge per procedure	\$ 874	\$ 882	\$ 878
Cost per inpatient day	\$ 5,762	\$ 5,689	\$ 5,563
Cost per outpatient day	\$ 1,754	\$ 1,732	\$ 1,693
Cost per procedure	\$ 122	\$ 120	\$ 117

<sup>\*</sup>Figures may be off by \$1 due to rounding.