

Executive Summary

The resolution asks for authorization to purchase 3 pieces of imaging equipment and the service contracts related to supporting these three pieces of equipment. The space for this equipment has been approved as phases III & IV of the Imaging Renovation Project. It is nearing completion and is ready for installation to begin.

The first piece of equipment is the Symbia Intevo 6 SPECT/CT system for \$830,000. This equipment will be used to perform nuclear medicine tests. The current piece of equipment, the Philips Forte Jetstream Nuclear Medicine Camera, continues to function well for cardiac imaging but the science of nuclear medicine has advanced significantly since 2005, when it was installed. In 2005, CT (Computerized Tomography) was not used to perform nuclear medicine testing. In the intervening time, CT technology has developed its ability to perform nuclear medicine procedures. The SPECT/CT unit is a 6 slice unit which allows the provider to see multiple layers of the heart during a nuclear medicine procedure. This enables the radiologist to make a more detailed examination of the heart, enabling an improved diagnosis.

The second piece of equipment is the Aera 1.5T MRI system for \$674,923 after trade-in and credits. Our current Symphony TIM 1.5T MRI went out of production in 2010 and Siemens intends to deliver end of life and end of service support announcements in the near future. Once that happens, replacement parts as well as service for the existing piece of equipment will become increasingly hard to find. The Aera 1.5T MRI system was chosen to replace it because it is a much newer technology offering improved images while being easier to use and more patient friendly, i.e., less uncomfortable.

The third piece of equipment of equipment is a new Invivo MR breast coil for \$70,400. The current MR breast coil is a 4 channel coil purchased in 2009. It will continue to work with our current MRI units; however, it is not compatible with the new Aera 1.5T MRI system. While it is adequate, it is also on the low end in terms of image quality. The Invivo MR breast coil is a 16 channel coil is compatible with the new Aera 1.5T MRI system. It offers significantly improved image quality over the current 4 channel MR breast coil.

The last item in the resolution is the service agreements on these pieces of equipment, taking effect after each item's manufacturer's warranty expires. The cost is \$193,933 per year. The purchase of the Aera 1.5T MRI system was negotiated without the manufacturer's warranty so the service agreement becomes effect upon installation of the unit. The chiller for the Aera is being moved over from the CPH Outpatient Imaging site on the Kenai Spur Highway and being installed in the Aera MRI room in the hospital along with the installation of the unit. The service agreement covers service on the chiller along with the MRI equipment.

The costs break down into \$1,575,323 for equipment with \$193,933 for service on the equipment.