OFFSHORE SYSTEMS AND METHODS FOR LIQUEFIED GAS PRODUCTION, STORAGE AND OFFLOADING TO REDUCE AND PREVENT DAMAGE

Abstract

Disclosed are systems and methods for limiting structural damage to an affected offshore platform and preventing damage spread from the affected offshore platform to another platform during an accident or an emergency condition. An offshore platform arrangement includes a mobile offshore production unit (MOPU), a mobile storage platform and a mobile offloading platform which are disposed at a clearance distance from one another. The platforms are fluidly connected by pipes to allow hydrocarbon fluid transfer therebetween. The pipes are adapted to cease fluid communication of hydrocarbon fluid between platforms for preventing damage spread therebetween. Also disclosed is an offloading system for hydrocarbon fluid transfer which includes a lifting system having an extendable lifting arm and a spreader frame platform rotatably coupled to the lifting arm. The spreader frame platform is operable to support a transfer skid and allow angular adjustment of the transfer skid in a horizontal plane.

Figure 1A